

SECTION M  
**ROOF DRAINS**

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## WHAT IT TAKES TO BE THALER OR EQUAL

When specifications read Thaler or Equal, it is responsibility of specifiers and building owners to determine what it means to be “Or Equal”. The following data has been presented to quickly help assess the comparative merits of “competitive” products. Thaler roof Drain products have several Value Added features that should be considered when trying to equate the “Or Equal”.

### CHECK THE COMPETITION

### THALER VALUE ADDED FEATURES

- |                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Fast installation;</b> all Thaler new and retrofit roof drains are quickly installed in a few minutes or less vs. nearly an hour for some competitive products.  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Fits more leader diameters (as applicable);</b> accommodates all leader sizes 2” to 10” (51 mm to 254 mm) diameter.  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>ANSI Approved;</b> All Thaler roof drains awarded: CSA B79 (2008) - ASME A112.6.4 (2012).  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Modern accessories;</b> compare Thaler accessories with our competition with regard to best and most up-to-date offering (see Thaler Roof Drain Options literature). Check out fast, new-to-the-industry EPDM retrofit seal, PVC or bituminous coated flashing deck flanges, and T-7 Flow Control accessory. |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>New RDX30 series drain;</b> brand new all-purpose, patented retro-fit design provides unique 360° membrane clamping ring (compression unit), super fast installation, superior outlet-to-leader seal and the toughest vandal-proof strainer on the market today.   |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>100% corrosion free;</b> all drains are manufactured using non-corrosive metals or other materials (non-galvanized or other non-durable materials).  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Treated deck flange;</b> can be PVC coated for proper weld of PVC membrane or bituminous painted for proper adhesion of BUR or ModBit membrane.  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Super-Seal EPDM Retrofit Drain Seal;</b> patented EPDM sealing ring provides a superior outlet-to-leader seal in the event drains or pipes become clogged (see Thaler Super-Seal Retrofit Drain Seal literature).  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Vandalproof strainer (as applicable);</b> non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains, while vandalproof hinged gate (allen-key openable) allows drains to be cleaned if necessary.  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>20 year Warranty;</b> guaranteed against leaks, condensation and defects in materials and/or manufacture when installed in accordance with Thaler “Installation Instructions”.   |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Maintenance-Free;</b> apart from industry recommended semi-annual preventative inspection to keep drains clear of debris, Thaler drains do not require any maintenance.  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Written “Installation Instructions”;</b> provided with every Thaler product.   |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <b>Intertek certified</b>   |



See Reverse Side of Page For Optional Accessories and 3-D Illustrations

## ROOF SPECIALTIES RD-1C VANDALPROOF COPPER ROOF DRAIN (All Purpose, Expansion Outlet)

### DESCRIPTION:

The Thaler RD-1C Roof Drain consists of a vandalproof cast aluminum dome strainer with hinged access gate, cast bronze stabilizer ring, stainless steel mounting bolts, flat, pan-formed copper drain body and expansion outlet (with copper ferrule), copper deck flange, and cast aluminum under-deck clamping ring.

### PROMINENT FEATURES:

Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key opening) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain. Expansion outlet prevents damage or distortion to drain caused by horizontal and vertical movement and/or elongation of rainwater leaders.

### LEADER DIAMETERS:

Suitable for 3", 4" or 6" (76 mm, 102 mm or 152 mm) leader sizes.

### OPTIONS:

T-5 copper sediment collar. T-7 aluminum or copper Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for flat roofs in new construction employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

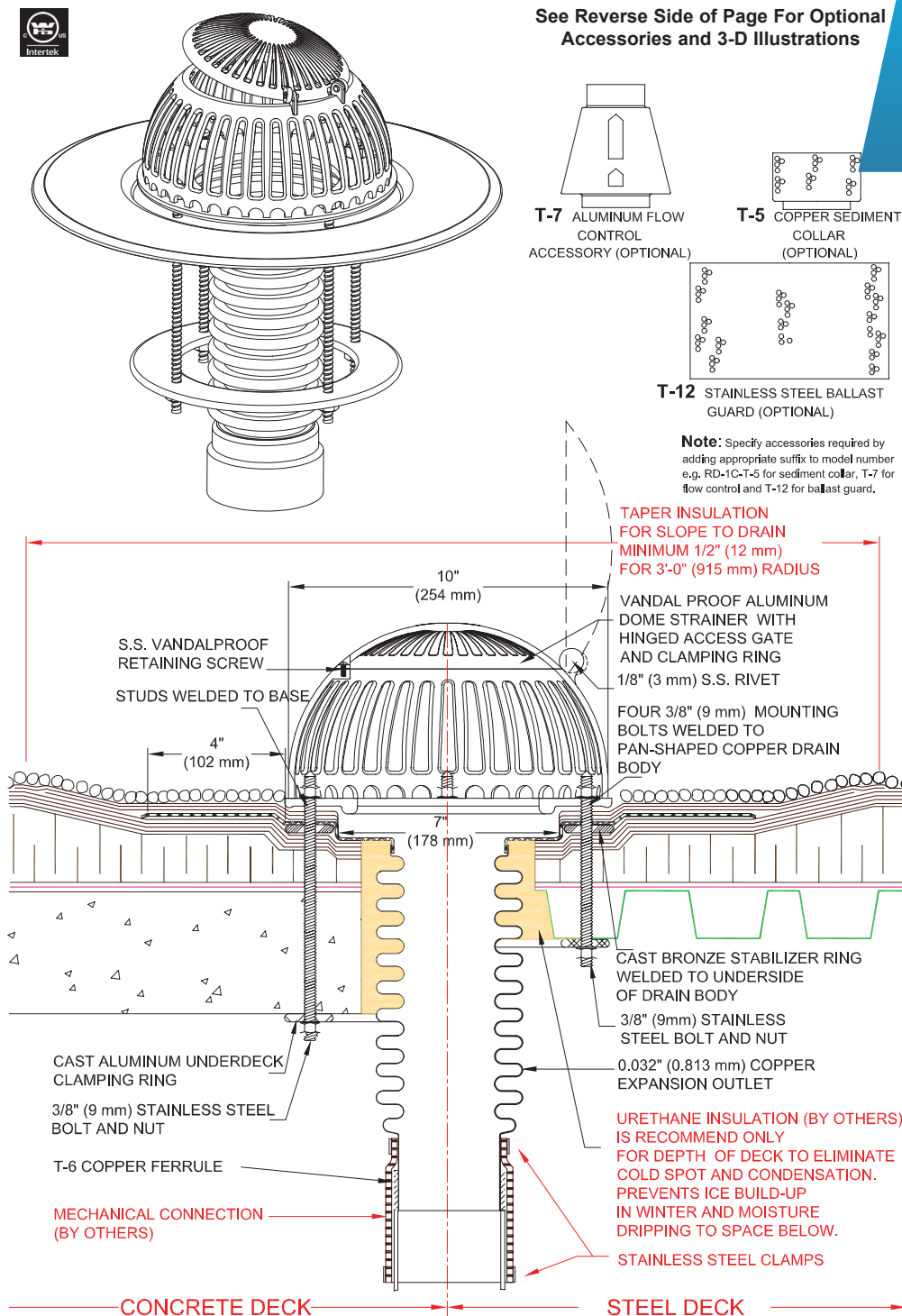
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-1C drain for [3" (76 mm)] [4" (102 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; 24 oz. .032" (0.813 mm) spun copper pan-formed drain body, deck flange and expansion outlet with: copper ferrule; 3/8" (9 mm) s.s. bolts welded to drain body; bronze stabilizer ring; cast aluminum under-deck clamping ring; [T-5 copper sediment collar;] [perforated 22 ga. (0.76 mm) s.s. ballast guard;] [T-7 aluminum flow control accessory;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



## RD-1C VANDAL PROOF COPPER ROOF DRAIN (All Purpose, Expansion Outlet)

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-1C roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

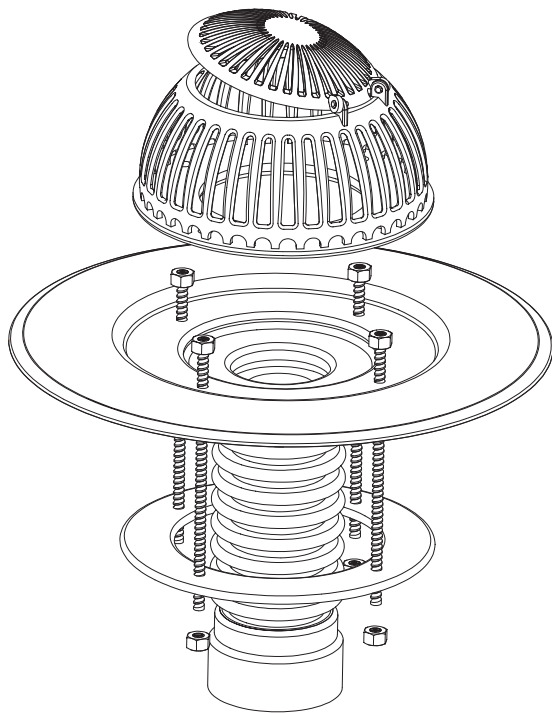
**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-1C-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

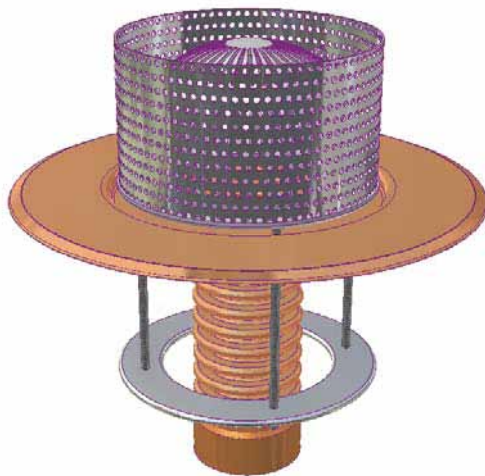
**Ordering and Availability:** Specify accessories required by adding appropriate suffix to model number e.g. RD-1C-T-5 for sediment collar, T-7 for flow control and T-12 for ballast guard. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



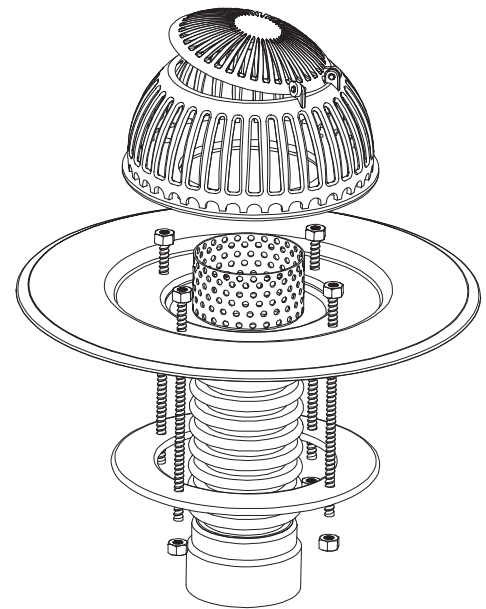




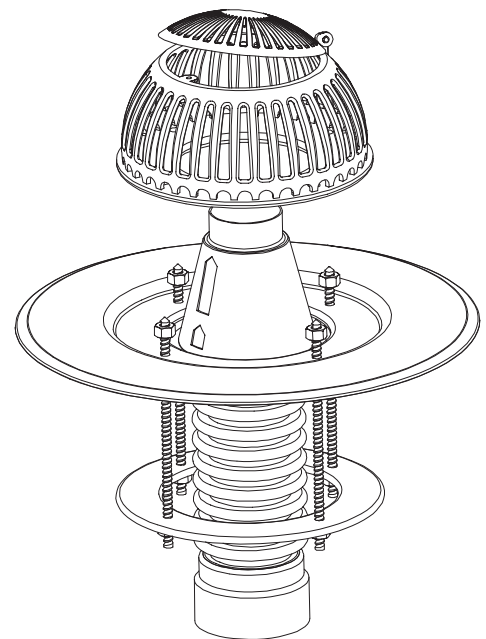
**EXPLODED VIEW**



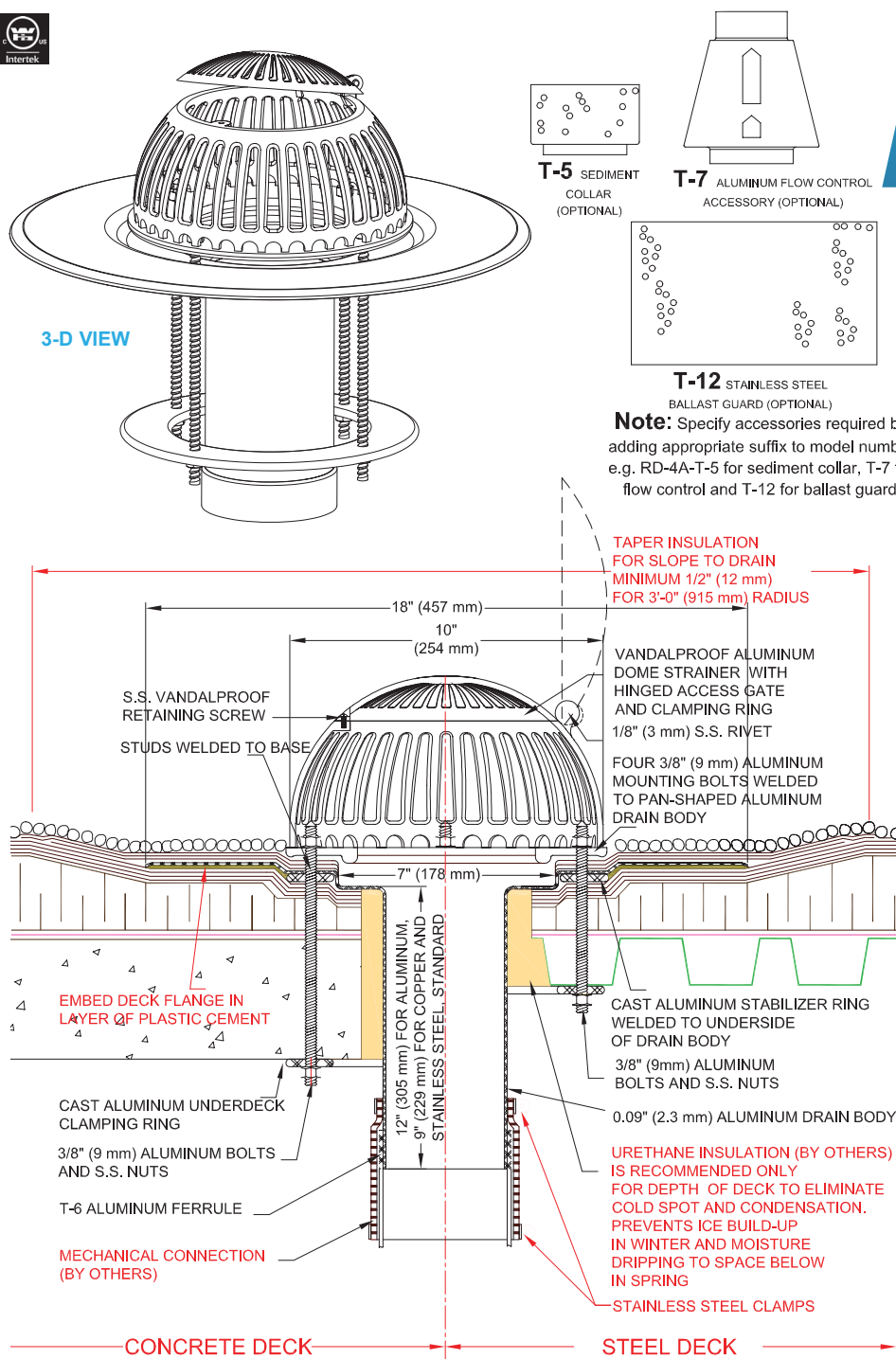
**Optional RD-1C With T-12 Stainless Steel Ballast Guard  
(Shown Friction Fitted To Dome Strainer)**



**Optional RD-1C With T-5 Copper Sediment Collar  
(Shown Friction Fitted To Drain Body)**



**Optional RD-1C With T-7 Flow Control Accessory  
(Shown Friction Fitted To Drain Body)**



## ROOF SPECIALTIES RD-4A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-4A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, cast aluminum stabilizer ring, aluminum mounting bolts, pan-formed aluminum drain body and straight aluminum outlet (with aluminum ferrule), deck flange, and cast aluminum under-deck clamping ring.

### PROMINENT FEATURES:

Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key opening) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

Suitable for 3", 4", 5" and 6" (76 mm, 102 mm, 127 mm and 152 mm) leader sizes.

### OPTIONS:

T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for flat roofs in new construction employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-4A drain for [3" (76 mm)] [4" (102 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; cast aluminum under-deck clamping ring; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-12 perforated 22 ga. (0.79 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-4A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

**Note: RD-4C (Copper) and RD-4SS (Stainless Steel)**  
Roof Drains similar. See reverse side of page for material change.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-4A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

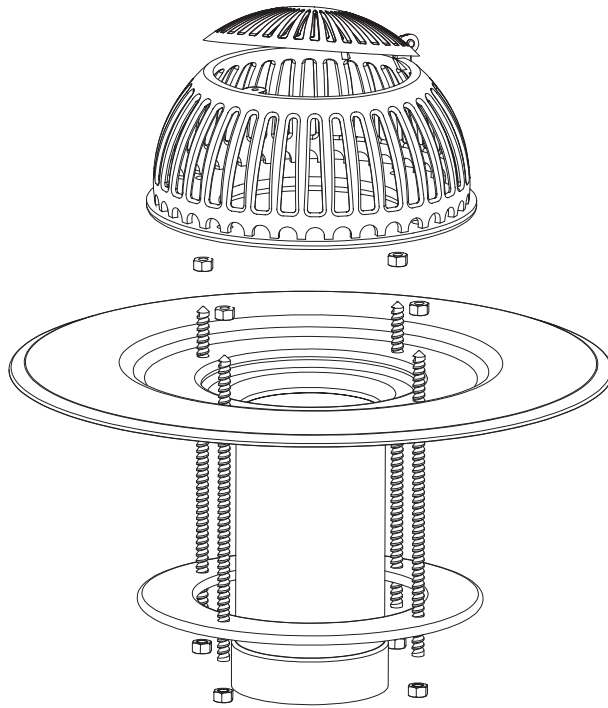
**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-4A-P; weld roofing to drain flange using PVC torch.

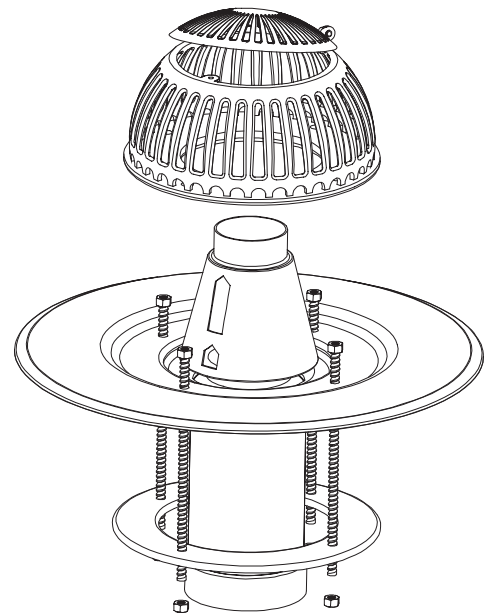
**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Specify accessories required by adding appropriate suffix to model number e.g. RD-4A-T-5 for sediment collar, T-7 for flow control and T-12 for ballast guard. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

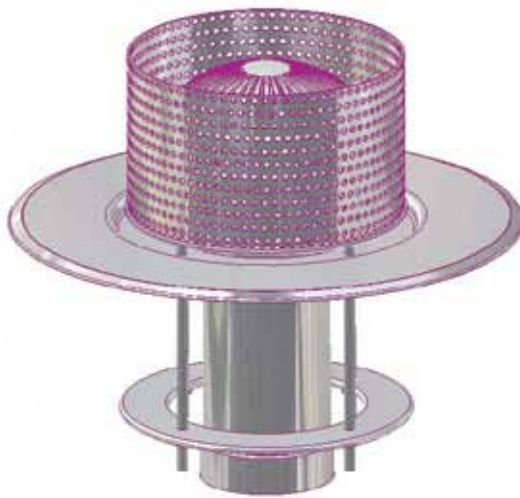




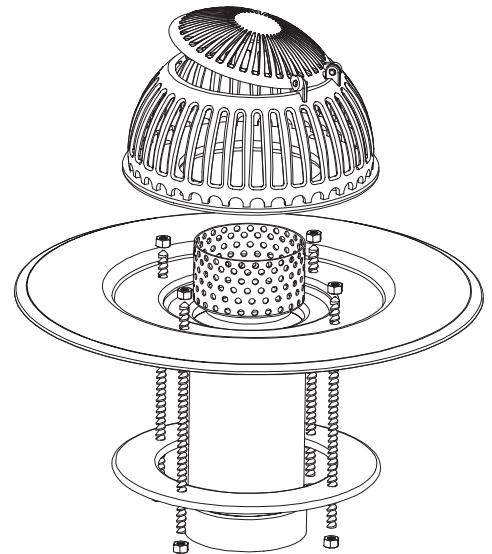
EXPLODED VIEW



Optional T-7 Flow Control Accessory  
(Shown Friction Fitted To Drain Body)



Optional T-12 Stainless Steel Ballast Guard  
(Shown Friction Fitted To Drain Body)



Optional With T-7 Sediment Collar  
(Shown Friction Fitted To Drain Body)

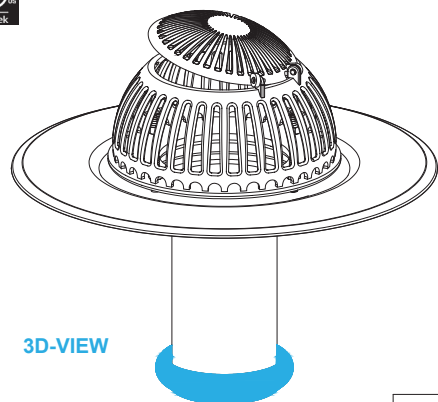
**Material Specification for RD-4C (Copper) and RD-4SS (Stainless Steel) Roof Drains (RD-4A Illustrated on page M-2)**  
**Note: In Short form Specification on front of sheet, edit specification clause to reflect choice copper (RD-4C) or stainless steel (RD-4SS) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Stabilizer Ring	Underdeck Clamping Ring	Drain Body and Base	Bolts and Nuts	Ferrule	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-4A	Cast Aluminum	Cast Aluminum	Cast Aluminum	Aluminum 0.09" (2.3 mm)	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-4C	Cast Aluminum	Brass	Cast Aluminum	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47 mm)	Stainless Steel	Brass	Copper	Copper or Painted Aluminum	Stainless Steel
RD-4SS	Cast Aluminum	Cast Aluminum	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel

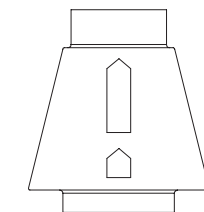




See Reverse Side of Page For  
RD-4C RR VANDALPROOF ROOF DRAIN and  
RD-4SS RR VANDALPROOF ROOF DRAIN



3D-VIEW



T-7 ALUMINUM FLOW CONTROL  
ACCESSORY (OPTIONAL)

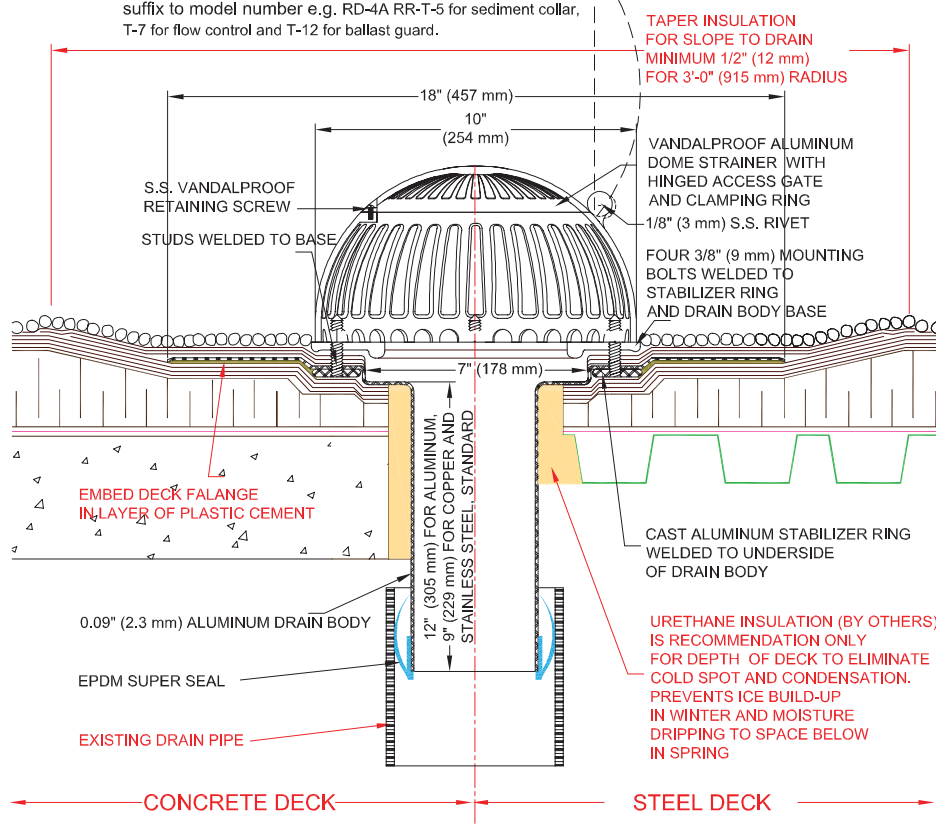


T-5 SEDIMENT  
COLLAR  
(OPTIONAL)



T-12 STAINLESS STEEL BALLAST  
GUARD (OPTIONAL)

**Note:** Specify accessories required by adding appropriate suffix to model number e.g. RD-4A RR-T-5 for sediment collar, T-7 for flow control and T-12 for ballast guard.



## RD-4A-RR VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet, Retrofit) Note: RD-4C-RR (Copper) and RD-4SS-RR (Stainless Steel) Roof Drain similar. See reverse side of page for material change

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-4A-RR roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-4A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

### ROOF SPECIALTIES

## RD-4A-RR VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet, Retrofit)

### DESCRIPTION:

The Thaler RD-4A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, cast aluminum stabilizer ring, stainless steel mounting bolts, pan-formed aluminum drain body and straight aluminum outlet, deck flange and EPDM Super Seal on outlet.

### PROMINENT FEATURES:

Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key opening) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

Suitable from 1-3/4" to 7-3/4" (44 mm to 197 mm) leader sizes.

### OPTIONS:

T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for flat roofs in existing construction employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

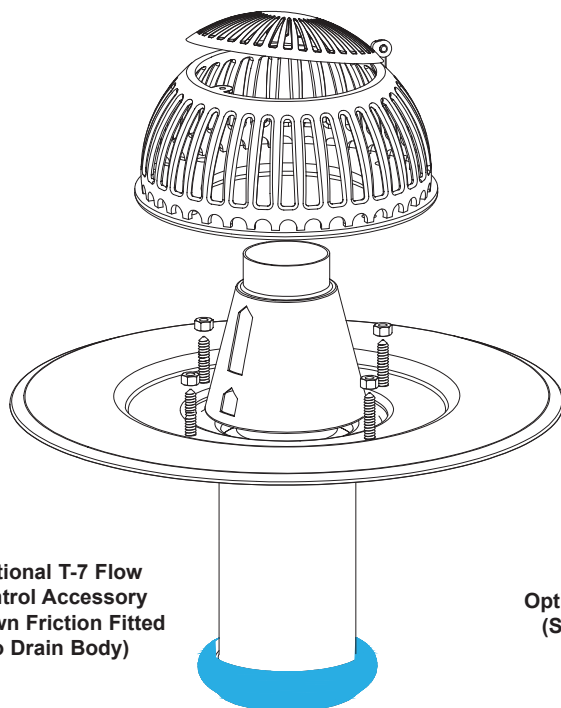
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

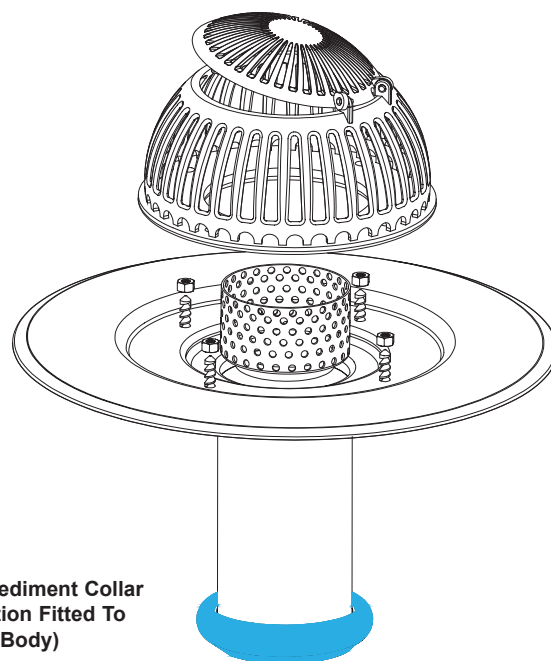
No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

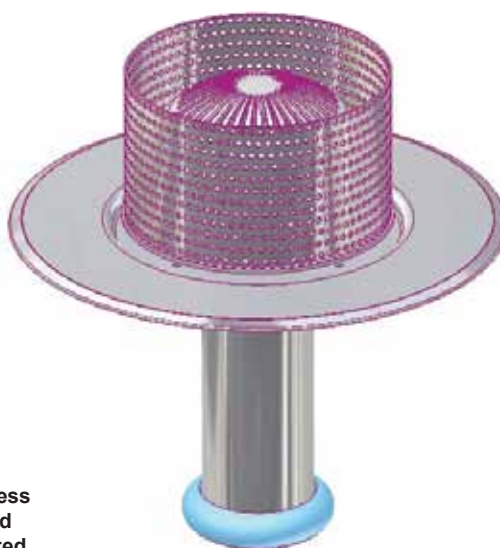
**Roof drains:** Thaler RD-4A-RR drain for [1-3/4" to 7-3/4" (44 mm to 197 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory] [T-9 Super Seal EPDM sealing ring] [T-12 perforated 22 ga. (0.79 mm) s.s. ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



**Optional T-7 Flow Control Accessory**  
(Shown Friction Fitted To Drain Body)



**Optional T-5 Sediment Collar**  
(Shown Friction Fitted To Drain Body)



**Optional T-12 Stainless Steel Ballast Guard**  
(Shown Friction Fitted To Drain Body)

**Material Specification for RD-4C-RR (Copper) and RD-4SS-RR (Stainless Steel) Roof Drains  
(RD-4A-RR Illustrated on page M-3)**

**Note: In Short form Specification on front of sheet, edit specification clause to reflect choice copper (RD-4C-RR) or stainless steel (RD-4SS-RR) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Stabilizer Ring	Drain Body and Base	Bolts and Nuts	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
<b>RD-4A RR</b>	Cast Aluminum	Cast Aluminum	Aluminum 0.09" (2.3 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
<b>RD-4C RR</b>	Cast Aluminum	Brass	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Stainless Steel	Copper	Copper or Painted Aluminum	Stainless Steel
<b>RD-4SS RR</b>	Cast Aluminum	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12"(3mm)	Stainless Steel	Aluminum	Painted Aluminum or Stainless Steel	Stainless Steel

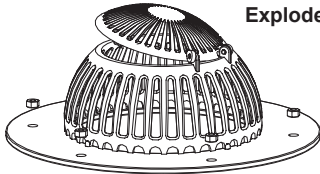
ROOF SPECIALTIES  
RD-4A-8 or RD-4A-10  
VANDALPROOF BIG  
ALUMINUM ROOF DRAIN  
(All Purpose, Straight Outlet),  
Also Available in Copper, Stainless  
Steel, and for Re-Roofing

NEW CONSTRUCTION

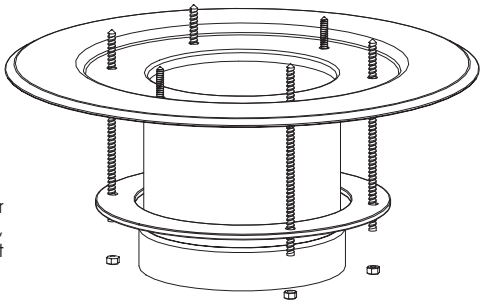


**SPECIFICATION (Short Form)**

**Roof drains:** Thaler [RD-4A-8] [RD-4A-10] big, aluminum roof drain for [8" (203 mm)] [10" (254 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.4 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; cast aluminum under-deck clamping ring; [T-12 perforated 22 ga. (0.79 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

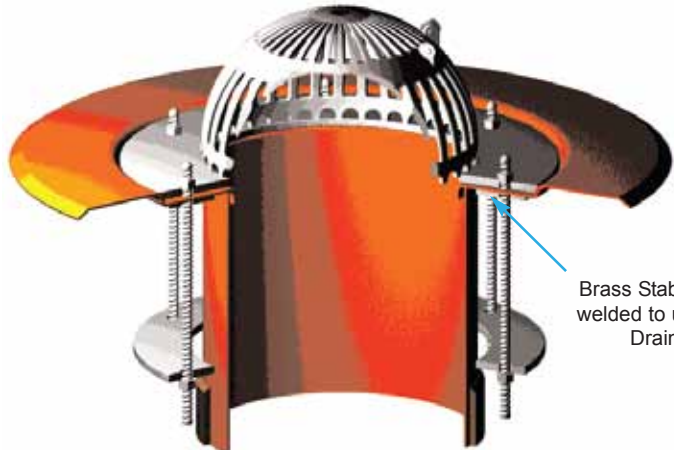


Exploded View



**RD-4A-8 or RD-4A-10 VANDALPROOF ALUMINUM ROOF DRAIN FOR 8" (203 mm) AND 10" (254 mm) LEADER SIZES**

**ALSO AVAILABLE IN COPPER AND STAINLESS STEEL**



Brass Stabilizer ring is welded to underside of Drain Body



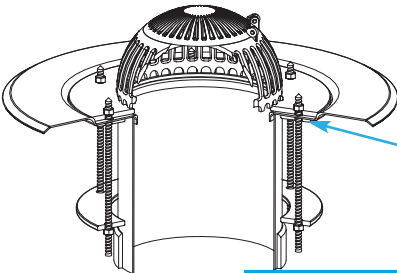
**RD-4C-8 or RD-4C-10 VANDALPROOF COPPER ROOF DRAIN FOR 8" (203 mm) AND 10" (254 mm) LEADER SIZES**



**RD-4SS-8 or RD-4SS-10 VANDALPROOF STAINLESS STEEL ROOF DRAIN FOR 8" (203 mm) AND 10" (254 mm) LEADER SIZES**

**Material Specification for RD-4C-8 or RD-4C-10 (Copper) and RD-4SS-8 or RD-4-10 (Stainless Steel) Roof Drains**

Drain Type	Dome Strainer	Stabilizer Ring	Underdeck Clamping Ring	Drain Body and Base	Bolts and Nuts	Ferrule	T-12 Ballast Guard
RD-4A-8 or RD-4A-10	Cast Aluminum	Cast Aluminum	Cast Aluminum	Aluminum 0.09" (2.3 mm)	Aluminum	Aluminum	Stainless Steel
RD-4C-8 or RD-4C-10	Cast Aluminum	Brass	Cast Aluminum	Copper base: 24 oz. 0.032" (0.813 mm) pipe: DWV 0.058" (1.47 mm)	Stainless Steel	Brass	Stainless Steel
RD-4SS-8 or RD-4SS-10	Cast Aluminum	Cast Aluminum	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Stainless Steel



Cast Aluminum Stabilizer ring is welded to underside of Drain Body



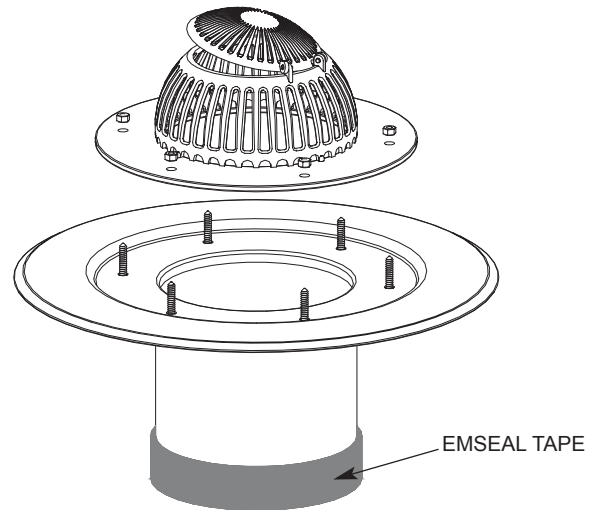
## RE-ROOFING MODELS

### SPECIFICATION (Short Form)

**Roof drains:** Thaler [RD-4A-8-RR] [RD-4A-10-RR] big, aluminum retrofit roof drain for [8" (203 mm)] [10" (254 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.4 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet fitted with EMSEAL tape; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; cast aluminum under-deck clamping ring; [T-12 perforated 22 ga. (0.79 mm) s.s. ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



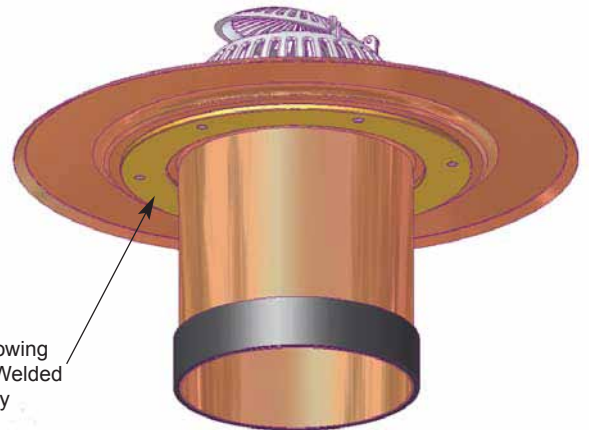
**RD-4A-8-RR or RD-4A-10-RR ALUMINUM RE-ROOFING ROOF DRAIN FOR 8" (203 mm) AND 10" (254 mm) LEADER SIZES**



**RD-4C-8-RR or RD-4C-10-RR ALUMINUM RE-ROOFING ROOF DRAIN FOR 8" (203 mm) AND 10" (254 mm) LEADER SIZES**



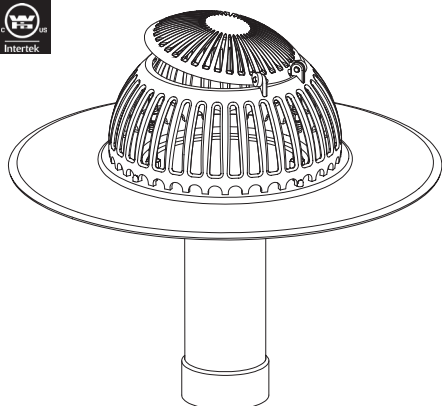
Underside of Deck Flange Showing  
Cast Aluminum Stabilizer Ring Welded  
to Underside of Drain Body



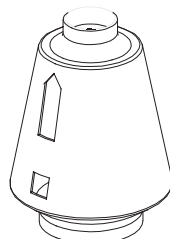
**Material Specification for RD-4C-RR-8 or RD-4C-RR-10 (Copper) and RD-4SS-RR-8 or RD-4SS-RR-10 (Stainless Steel) Roof Drains**

Drain Type	Dome Strainer	Stabilizer Ring	Drain Body and Base	Bolts and Nuts	Ferrule	T-12 Ballast Guard
RD-4A-RR-8 or RD-4A-RR-10	Cast Aluminum	Cast Aluminum	Aluminum 0.09" (2 mm)	Aluminum	Aluminum	Stainless Steel
RD-4C-RR-8 or RD-4C-RR-10	Cast Aluminum	Brass	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47 mm)	Stainless Steel	Brass	Stainless Steel
RD-4SS-RR-8 or RD-4SS-RR-10	Cast Aluminum	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Stainless Steel

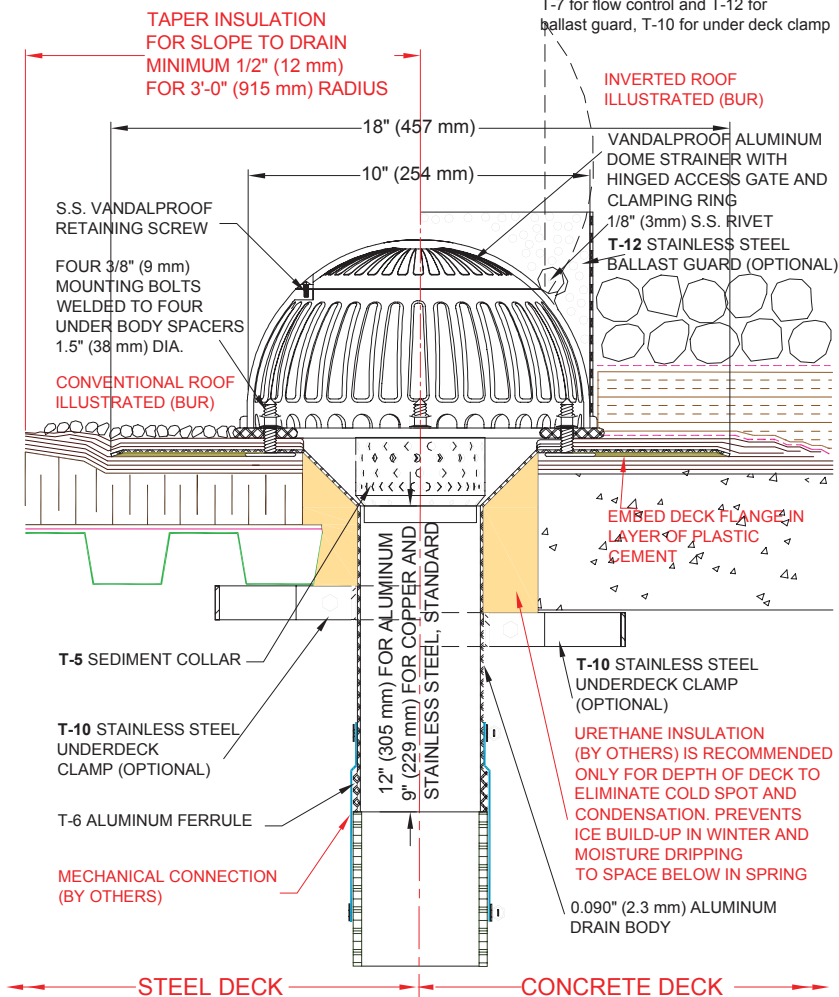
**RD-4SS-8-RR or RD-4SS-10-RR STAINLESS STEEL RE-ROOFING ROOF DRAIN FOR 8" (203 mm) AND 10" (254 mm) LEADER SIZES**



**T-7 ALUMINUM FLOW CONTROL ACCESSORY (OPTIONAL)**



Note: specify accessories required by adding appropriate suffix to model number e.g. RD-7C-T-5 for sediment collar, T-7 for flow control and T-12 for ballast guard, T-10 for under deck clamp



## RD-7A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet) Note: RD-7C (Copper) and RD-4SS (Stainless Steel) Roof Drain similar. See reverse side of page for material change

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-7A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-7A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

## ROOF SPECIALTIES RD-7A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Funnel Outlet)

### DESCRIPTION:

The Thaler RD-7A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, four mounting bolts, round aluminum body, deck flange and straight outlet fitted with an aluminum ferrule.

### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key openable) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain. Drains fitted with aluminum ferrule.

### LEADER DIAMETERS:

With Aluminum Ferrule: 1-3/4" to 8" (44 mm to 203 mm). See detail at left for specific sizes.

### OPTIONS:

T-10 stainless steel under-deck clamp (provides snug installation in otherwise insecure applications). T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for flat roofs in new or existing construction employing conventional roof (membrane above insulation) or inverted roof. Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thickness.

### APPROVALS:

Awarded CSAB79(2008) ASME A112.6.4(2012).

### WARRANTY:

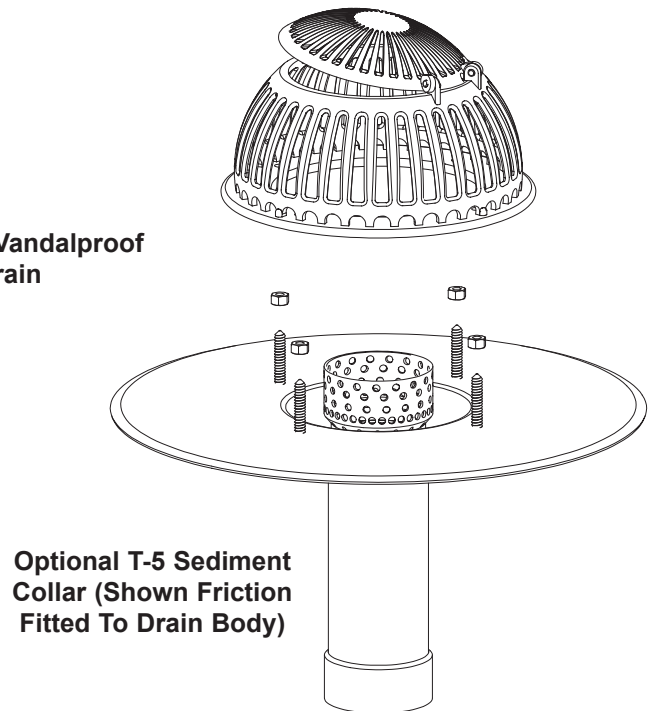
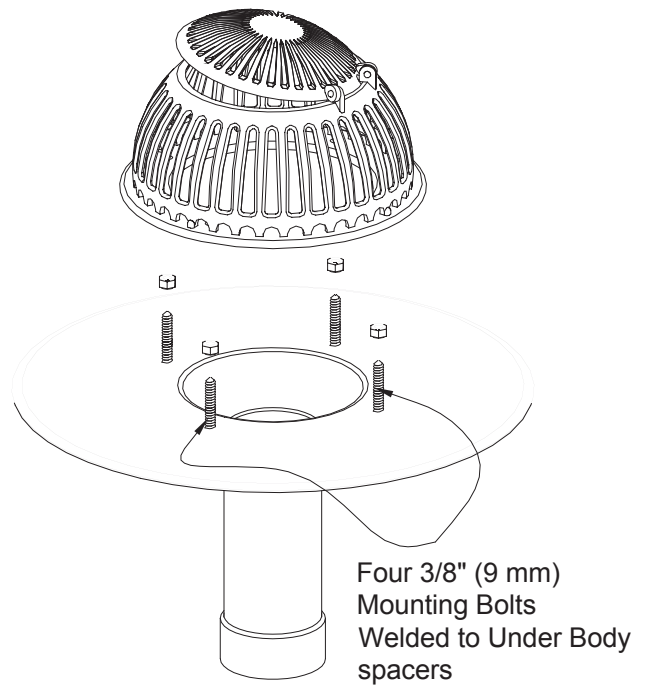
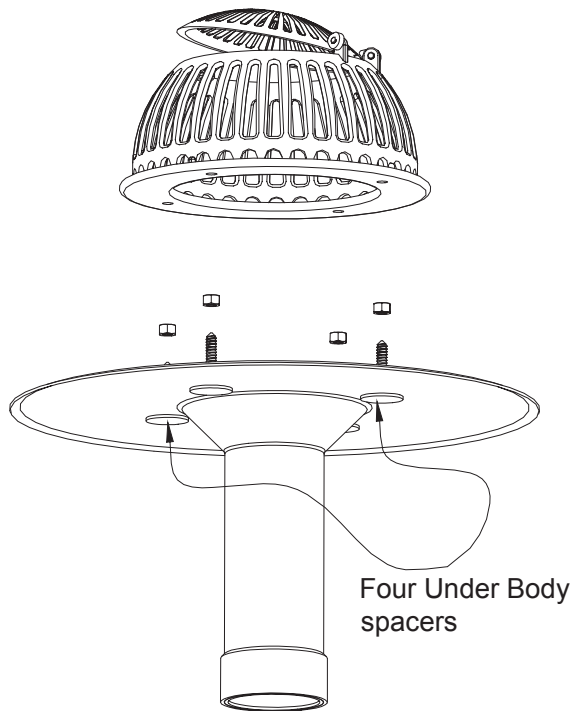
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

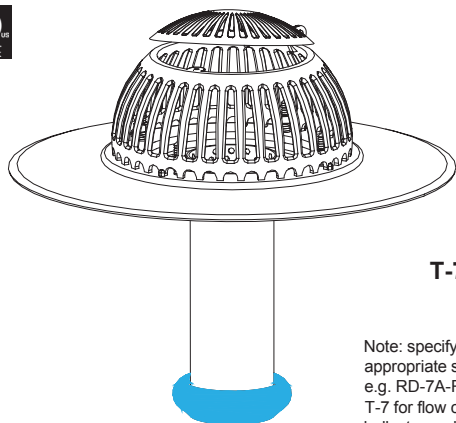
**Roof drains:** Thaler RD-7A aluminum drain for [1-3/4" to 8" (44 mm to 203 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) aluminum round drain body, four 3/8" (3 mm) aluminum mounting bolts welded to under body spacer 1.5" (38 mm), deck flange and straight aluminum outlet with [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-7 aluminum flow control accessory] [T-10 stainless steel under-deck clamp;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange;] as manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



**Material Specification for RD-7C (Copper) and RD-7SS (Stainless Steel) Roof Drains (RD-7A Illustrated on page M-5)**  
**Note: In Short Form specification on front of sheet, edit specification clause to reflect choice of copper (RD-7C) or stainless steel (RD-7SS) roof drain in lieu of aluminum if desired.**

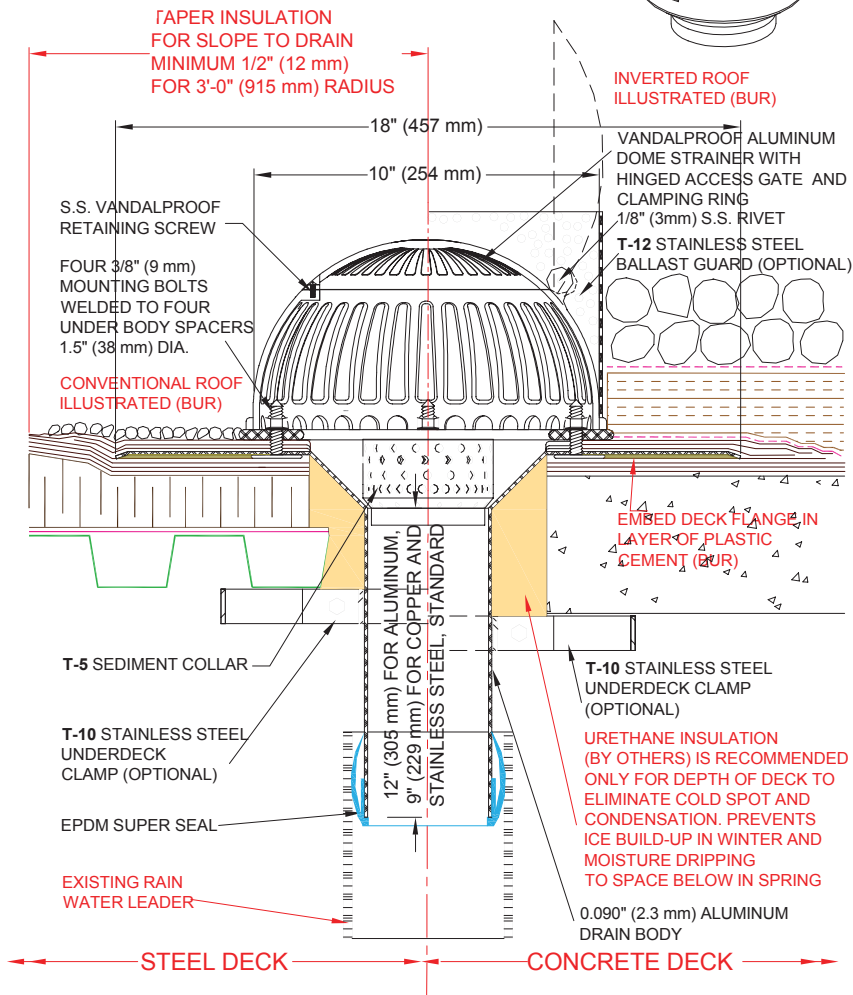
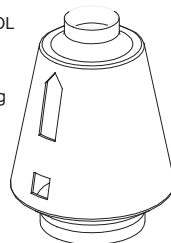
Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	Bolts and Nuts	Ferrule	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-7A	Cast Aluminum	Stainless Steel	Aluminum 0.09" (2 mm)	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-7C	Cast Aluminum	Stainless Steel	Copper base: 24 oz.0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Stainless Steel	Brass	Copper	Copper or Painted Aluminum	Stainless Steel
RD-7SS	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Aluminum	Painted Aluminum or Stainless Steel	Stainless Steel





**T-7 ALUMINUM FLOW CONTROL ACCESSORY (OPTIONAL)**

Note: specify accessories required by adding appropriate suffix to model number e.g. RD-7A-RR-T-5 for sediment collar, T-7 for flow control and T-12 for ballast guard, T-10 for under-deck clamp



## RD-7A-RR VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Funnel Outlet) Note: RD-7C-RR (Copper) and RD-4SS-RR (Stainless Steel) Roof Drain similar. See reverse side of page for material change.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-7A-RR roof drain is installed by fitting the drain outlet into the rainwater leader, by slowly rotating and pushing down into position, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-7A-RR-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

## ROOF SPECIALTIES RD-7A-RR VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Funnel Outlet, Retrofit)

### DESCRIPTION:

The Thaler RD-7A RR Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, four mounting bolts, funnel aluminum body, deck flange and straight outlet fitted with patented EPDM sealing ring (Thaler Super-Seal). The Super-Seal provides a superior seal in the event drains become clogged.

### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key opening) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain. Leader Diameters: With Super-Seal EPDM Sealing Ring: 1-3/4" to 8" (44 mm to 203 mm). See detail at left for specific sizes.

### OPTIONS:

T-10 stainless steel under-deck clamp (provides snug installation in otherwise insecure applications). T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for flat roofs in new or existing construction employing conventional roof (membrane above insulation) or inverted roof and new hook-up e.g. new installation in low spots subject to ponding water. Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thickness.

### APPROVALS:

Awarded CSAB79(2008)/ASMEA112.6.4(2012).

### WARRANTY:

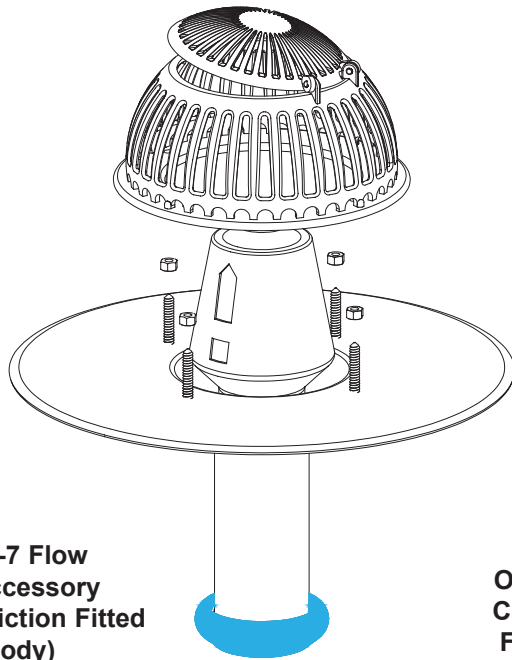
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

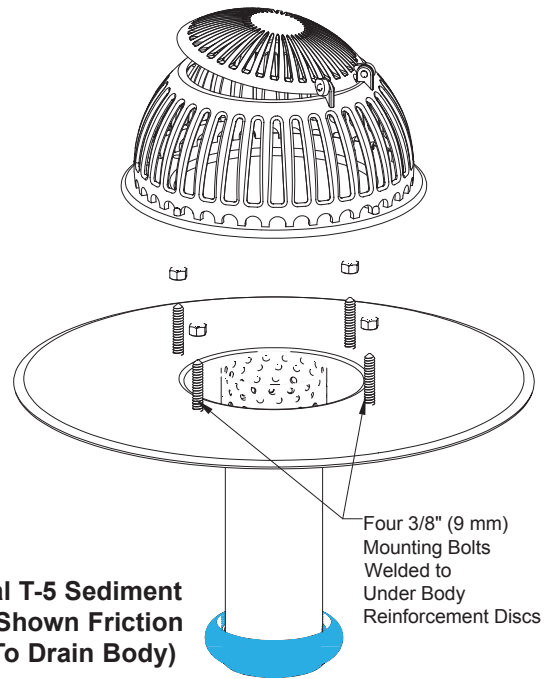
No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-7A-RR aluminum drain for [1-3/4" to 8" (44 mm to 203 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) aluminum funnel drain body, four 3/8" (3 mm) aluminum mounting bolts welded to underbody reinforcing discs, deck flange and straight aluminum outlet with [T-5 aluminum sediment collar;] [T-9 Super-Seal EPDM sealing ring;] [T-7 aluminum flow control accessory] [T-10 stainless steel under-deck clamp;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; as manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



**Optional T-7 Flow Control Accessory (Shown Friction Fitted To Drain Body)**

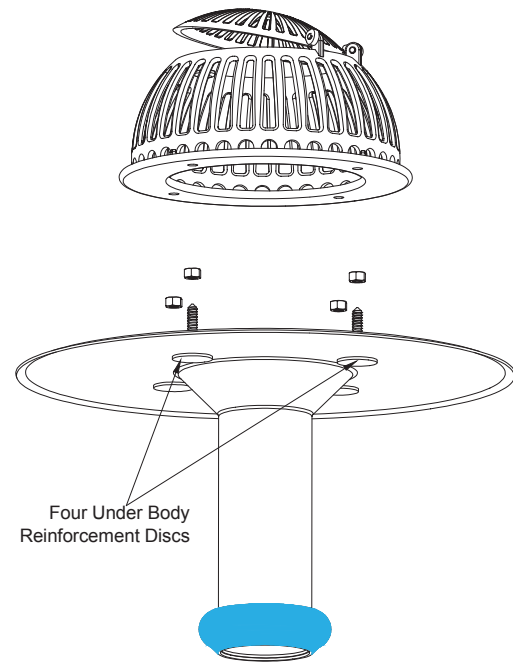


**Optional T-5 Sediment Collar (Shown Friction Fitted To Drain Body)**

Four 3/8" (9 mm) Mounting Bolts Welded to Under Body Reinforcement Discs



**RD-7C-RR Copper Vandalproof Roof Drain**



Four Under Body Reinforcement Discs

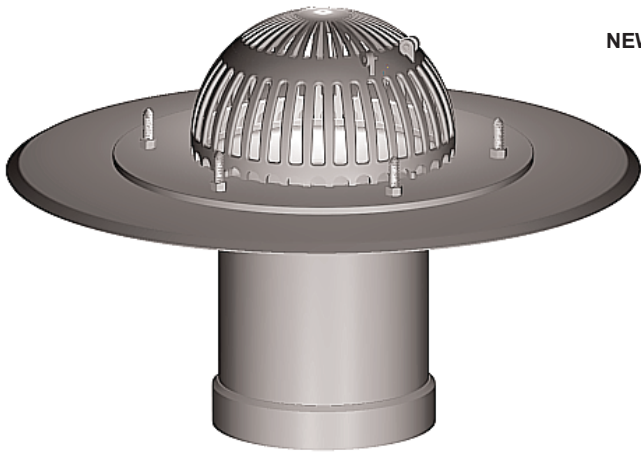
**Material Specification for RD-7C-RR (Copper) and RD-7SS-RR (Stainless Steel) Roof Drains (RD-7A-RR Illustrated on page M-6)**

**Note: In Short Form specification on front of sheet, edit specification to reflect choice of copper (RD-7C-RR) or stainless steel (RD-7SS-RR) roof drain in lieu of aluminum if desired.**

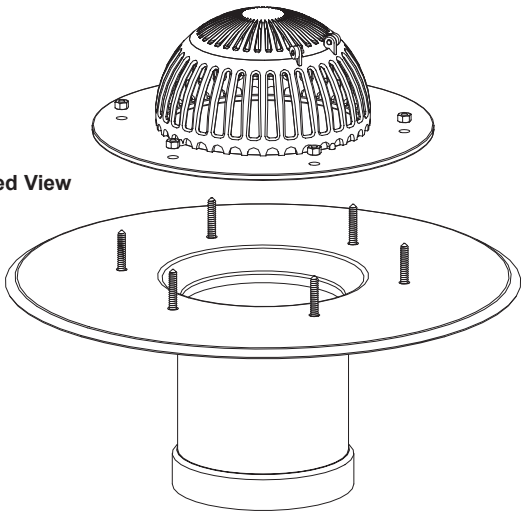
Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-7A-RR	Cast Aluminum	Stainless Steel	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Stainless Steel
RD-7C-RR	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Copper	Copper or Painted Aluminum	Stainless Steel
RD-7SS-RR	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel

ROOF SPECIALTIES  
RD-7A-8 VANDALPROOF BIG  
ALUMINUM ROOF DRAIN  
(All Purpose, Straight Outlet)  
Also Available in Copper,  
Stainless, and for Re-roofing

NEW CONSTRUCTION



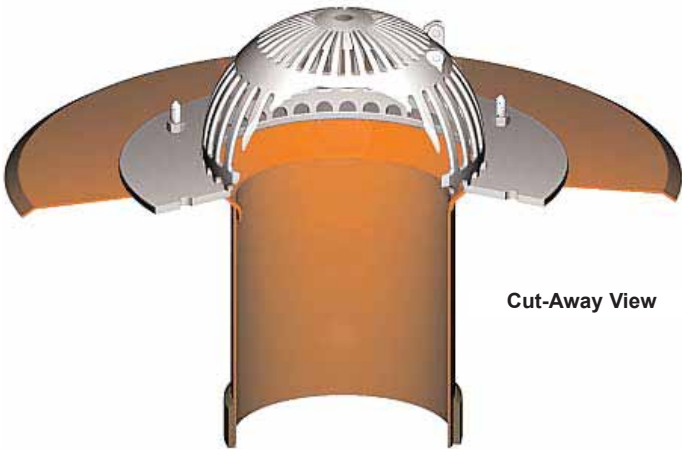
Exploded View



**SPECIFICATION (Short Form)**  
**Roof drains:** Thaler RD-7A-8 aluminum big roof drain for [8" (203 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring ; .090" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; six 3/8" (9 mm) aluminum bolts welded to underbody reinforcement discs; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (Niagara Falls, NY), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

RD-7A-8 VANDALPROOF ALUMINUM ROOF DRAIN FOR 8" (203 mm) LEADER SIZE

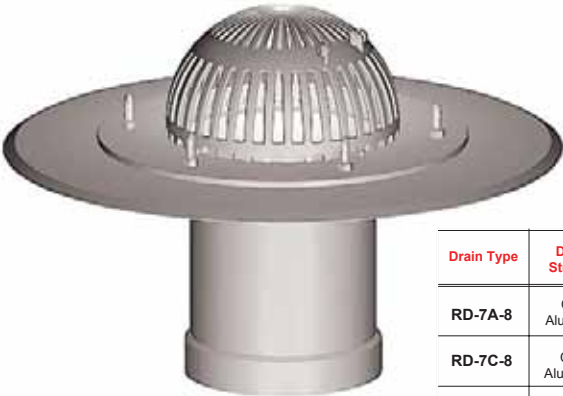
ALSO AVAILABLE IN COPPER AND STAINLESS STEEL



Cut-Away View



RD-7C-8 VANDALPROOF COPPER ROOF DRAIN FOR 8" (203 mm) LEADER SIZE



Material Specification for RD-7C-8 (Copper) and RD-7SS-8 (Stainless Steel) Roof Drains

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	Bolts and Nuts	Ferrule	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-7A-8	Cast Aluminum	Stainless Steel	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-7C-8	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Stainless Steel	Brass	Copper	Copper or Painted Aluminum	Stainless Steel
RD-7SS-8	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel

RD-7SS-8 VANDALPROOF  
STAINLESS STEEL ROOF DRAIN  
FOR 8" (203 mm) LEADER SIZE



# RE-ROOFING MODELS

## SPECIFICATION (Short Form)

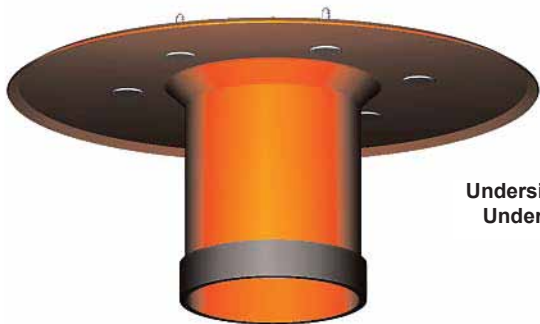
**Roof drains:** Thaler RD-7A-8-RR aluminum big re-roofing roof drain for [8" (203 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring ; .090" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet with EMSEAL tape; six 3/8" (9 mm) aluminum bolts welded to underbody reinforcement discs; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.79 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



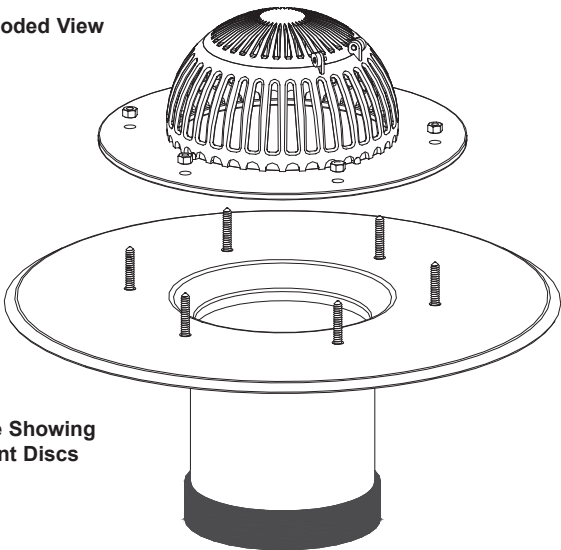
**RD-7A-8-RR VANDALPROOF ALUMINUM RE-ROOFING ROOF DRAIN**



**Exploded View**



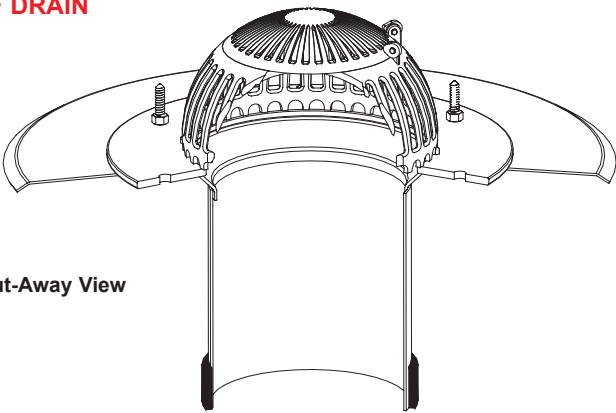
**Underside of Deck Flange Showing Underbody reinforcement Discs**



**RD-7C-8-RR VANDALPROOF COPPER RE-ROOFING ROOF DRAIN**



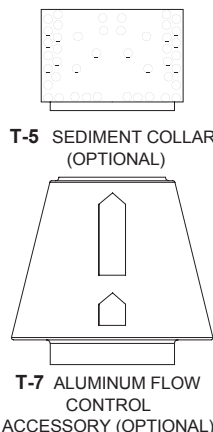
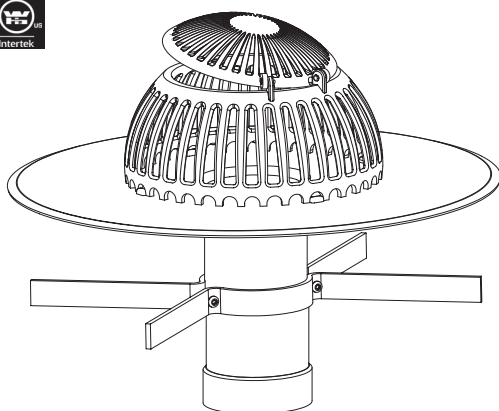
**RD-7SS-8-RR VANDALPROOF STAINLESS STEEL RE-ROOFING ROOF DRAIN**



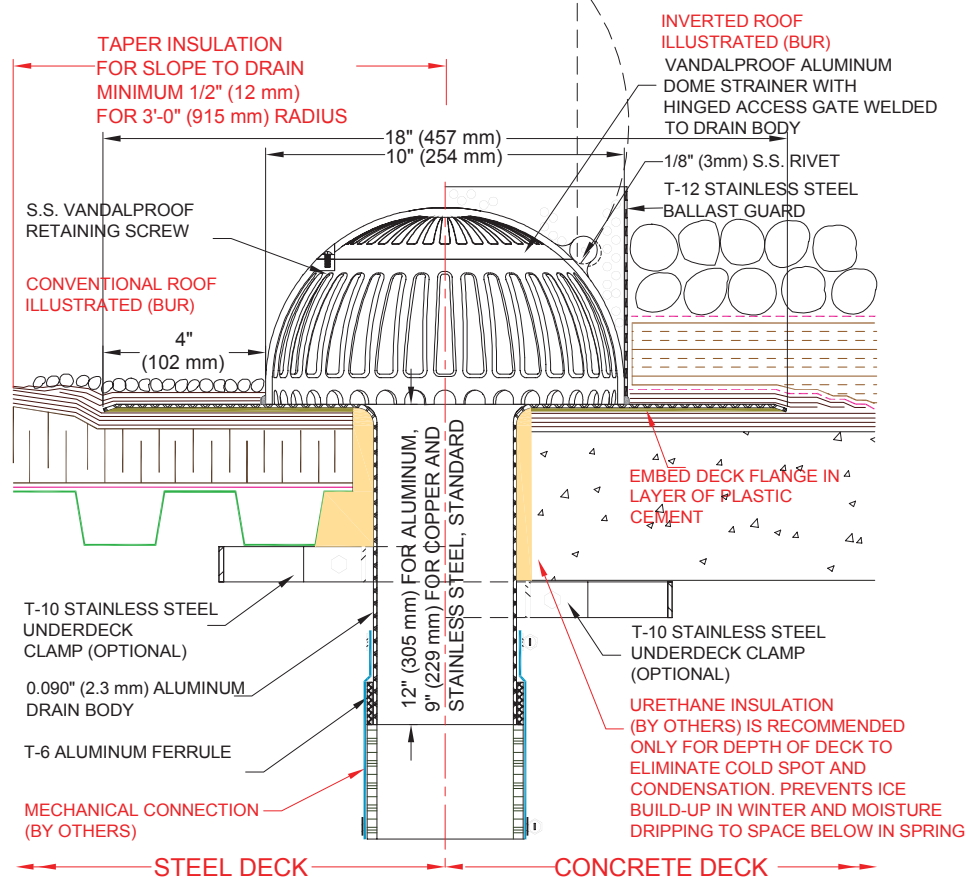
**Cut-Away View**

**Material Specification for RD-7C-8-RR (Copper) Re-Roofing and RD-7SS-8-RR (Stainless Steel) Re-Roofing Roof Drains**

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	Bolts and Nuts	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-7A-8-RR	Cast Aluminum	Stainless Steel	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-7C-8-RR	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Stainless Steel	Copper	Copper or Painted Aluminum	Stainless Steel
RD-7SS-8-RR	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**Note:** Specify accessories required by adding appropriate suffix to model number e.g. RD-14C-T-5 for sediment collar, T-7 for flow control and T-12 for ballast guard.



## RD-14A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet) Note: RD-14C (Copper) and RD-14SS (Stainless Steel) Roof Drain similar. See reverse side of page for material change

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-14A roof drain is installed by coring or cutting the roof assembly, fitting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-14A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

## ROOF SPECIALTIES RD-14A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-14A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, flat aluminum body, deck flange and straight outlet fitted with a brass ferrule.

### PROMINENT FEATURES:

Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key openable) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

With Aluminum Ferrule: 2" to 10" (51 mm to 254 mm). See detail at left for specific sizes.

### OPTIONS:

Aluminum ferrule on outlet. T-5 aluminum sediment collar. Stainless steel under-deck clamp (provides snug installation in otherwise insecure applications). T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

For flat roofs in new or existing construction employing conventional roof (membrane above insulation) or inverted roof and new hook-up e.g. new installation in low spots subject to ponding water. Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thicknesses.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

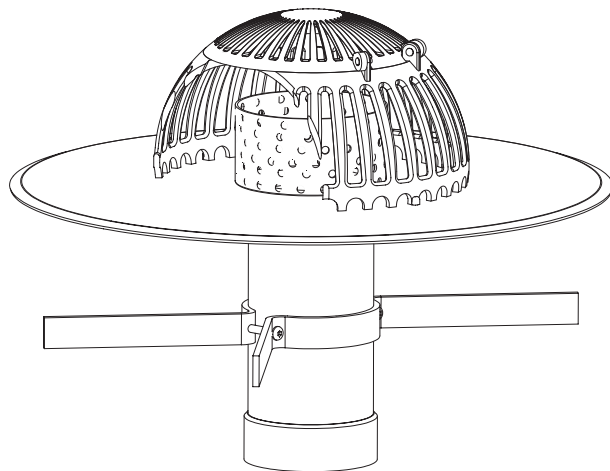
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

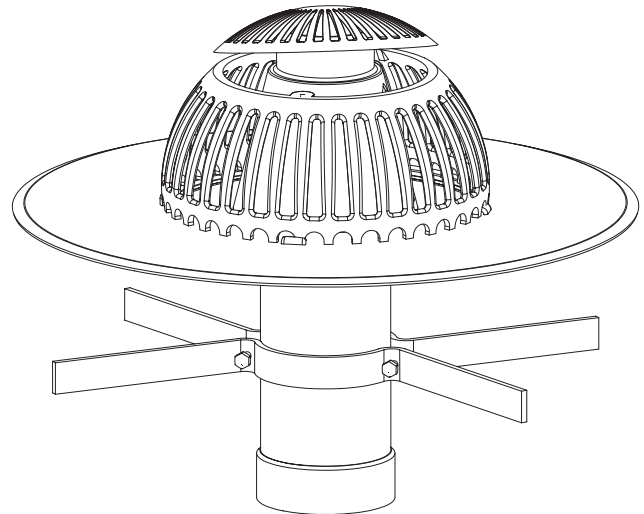
No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-14A aluminum drain for [2" to 10" (51 mm to 254 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .090" (2.3 mm) spun aluminum flat drain body, deck flange and straight seamless aluminum outlet with [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 stainless steel ballast guard;] [PVC coated deck flange] [bituminous painted deck flange;] as manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



**Optional T-5 Sediment Collar  
(Shown Friction Fitted To Drain Body)**



**Optional T-7 Flow Control Accessory  
(Shown Friction Fitted To Drain Body)**



**Optional T-12 Stainless Steel Ballast Guard on RD-14SS Roof Drain  
(Shown Friction Fitted To Drain Body)**

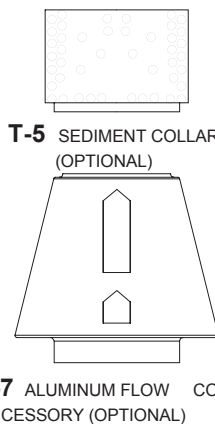
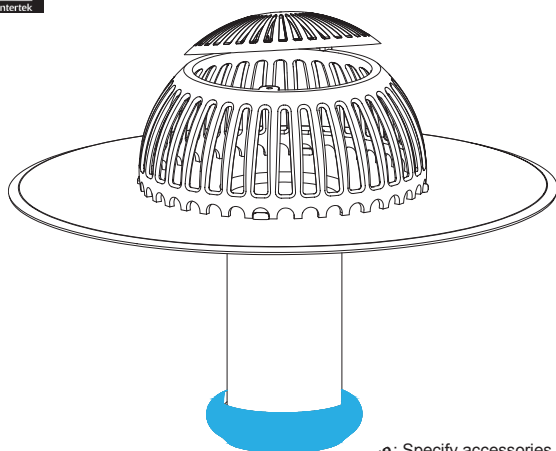


**RD-14C (Copper) Roof Drain**

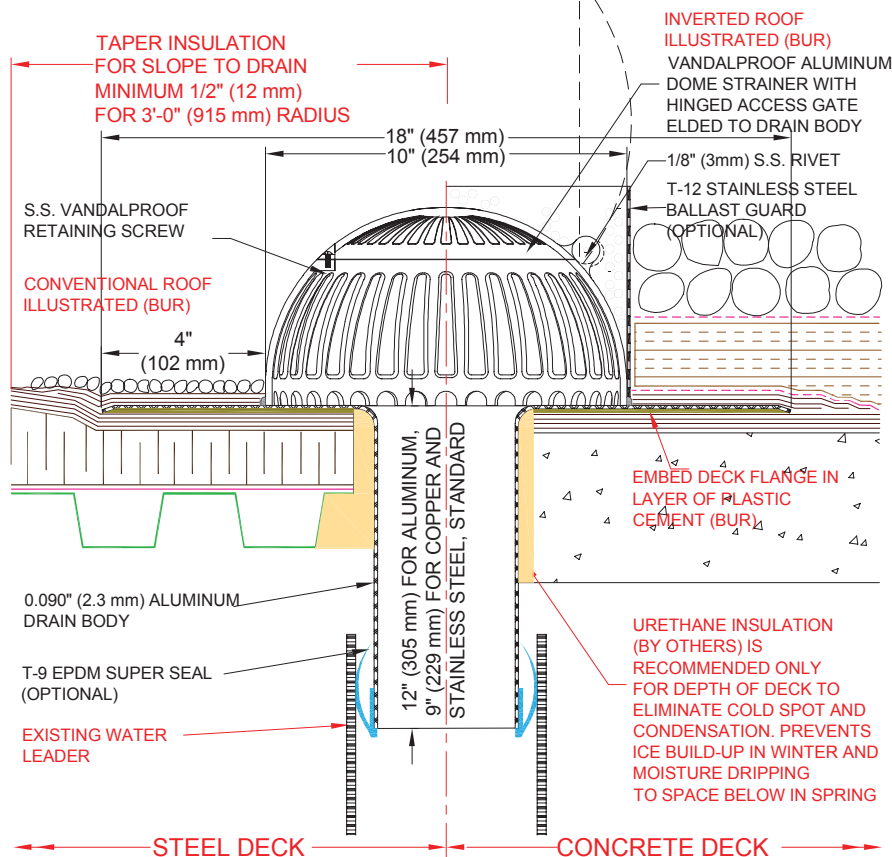
**Material Specification for RD-14C (Copper) and RD-14SS  
(Stainless Steel) Roof Drains (RD-14A Aluminum Illustrated on page M-8)**

**Note: In Short Form specification on front of sheet, edit clause to reflect choice of copper (RD-14C) or stainless steel (RD-14SS) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	Ferrule	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
<b>RD-14A</b>	Cast Aluminum	Stainless Steel	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
<b>RD-14C</b>	Cast Aluminum	Stainless Steel	Copper base: 24 oz 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Brass	Copper	Copper or Painted Aluminum	Stainless Steel
<b>RD-14SS</b>	Cast Aluminum	Stainless Steel	Stainless Steel base: 22Ga. (0.8 mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



Note: Specify accessories required by adding appropriate suffix to model number e.g. RD-14C-RR-T-5 for sediment collar, T-7 for flow control and T-12 for ballast guard.



## ROOF SPECIALTIES RD-14A-RR VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Low Spot Retrofit)

### DESCRIPTION:

The Thaler RD-14A-RR Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, flat aluminum body, deck flange and straight outlet fitted with EPDM sealing ring (Thaler Super-Seal). The Super-Seal provides a superior seal in the event drains or pipes become clogged.

### PROMINENT FEATURES:

Easy installation for retrofit applications requiring new hook-up (see Recommended Use). Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key opening) allows drain to be cleaned if necessary.

### LEADER DIAMETERS:

With Super-Seal EPDM Sealing Ring: 1-3/4" to 5-3/4" (44 mm to 146 mm). See detail at left for specific sizes.

### OPTIONS:

Without Super-Seal on outlet (see Thaler Super-Seal Retrofit Drain Seal literature). T-5 aluminum sediment collar. T-10 Stainless steel under-deck clamp (provides snug installation in otherwise insecure applications). T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

For flat roofs in existing construction employing conventional roof (membrane above insulation) or inverted roof and new hook-up e.g. new installation in low spots subject to ponding water. Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thicknesses.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-14A-RR aluminum drain for [1-3/4" (44 mm) to 5-3/4" (146 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .090" (2.3 mm) spun aluminum flat drain body, deck flange and straight seamless aluminum outlet with [T-5 aluminum sediment collar;] [T-9 Super-Seal EPDM sealing ring;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 stainless steel ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; as manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-14A-RR VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Low Spot Retrofit) Note: RD-14C-RR (Copper) and RD-14SS-RR (Stainless Steel) Roof Drain similar. See reverse side of page for material change.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-14A-RR roof drain is installed by coring or cutting the roof assembly, fitting the drain outlet into the rainwater leader, slowly rotatening and pushing down into position, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

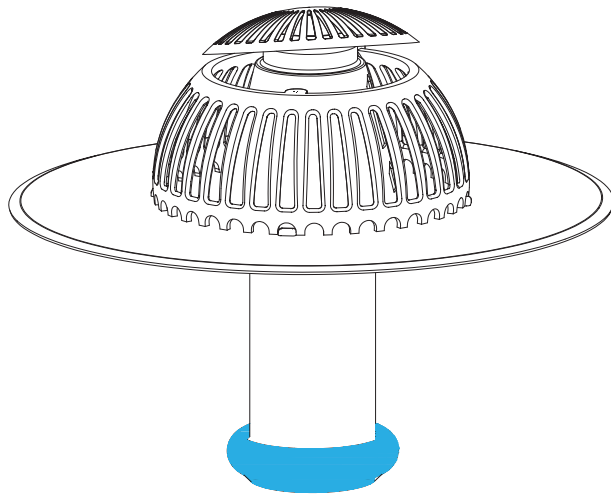
**Single Ply:** Single Ply: Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-14A-RR-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

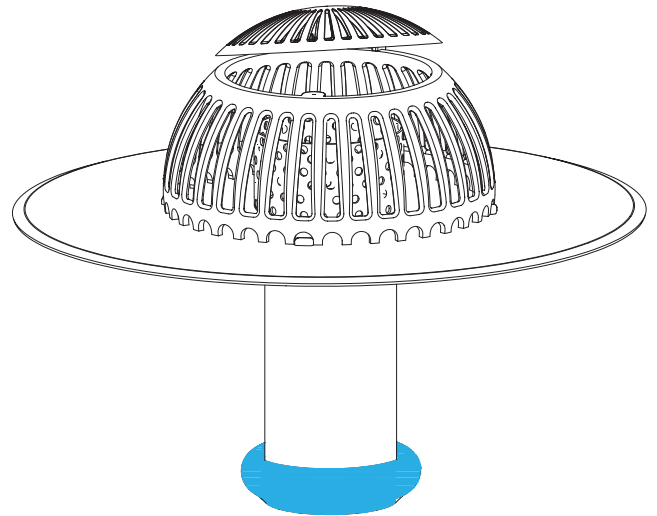
**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.







Optional T-7 Flow Control Accessory  
(Shown Friction Fitted To Drain Body)



Optional T-5 Sediment Collar  
(Shown Friction Fitted To Drain Body)



RD-14C-RR (Copper)  
Roof Drain



Optional T-12 Stainless Steel Ballast Guard  
on RD-14SS-RR Roof Drain  
(Shown Friction Fitted To Drain Body)

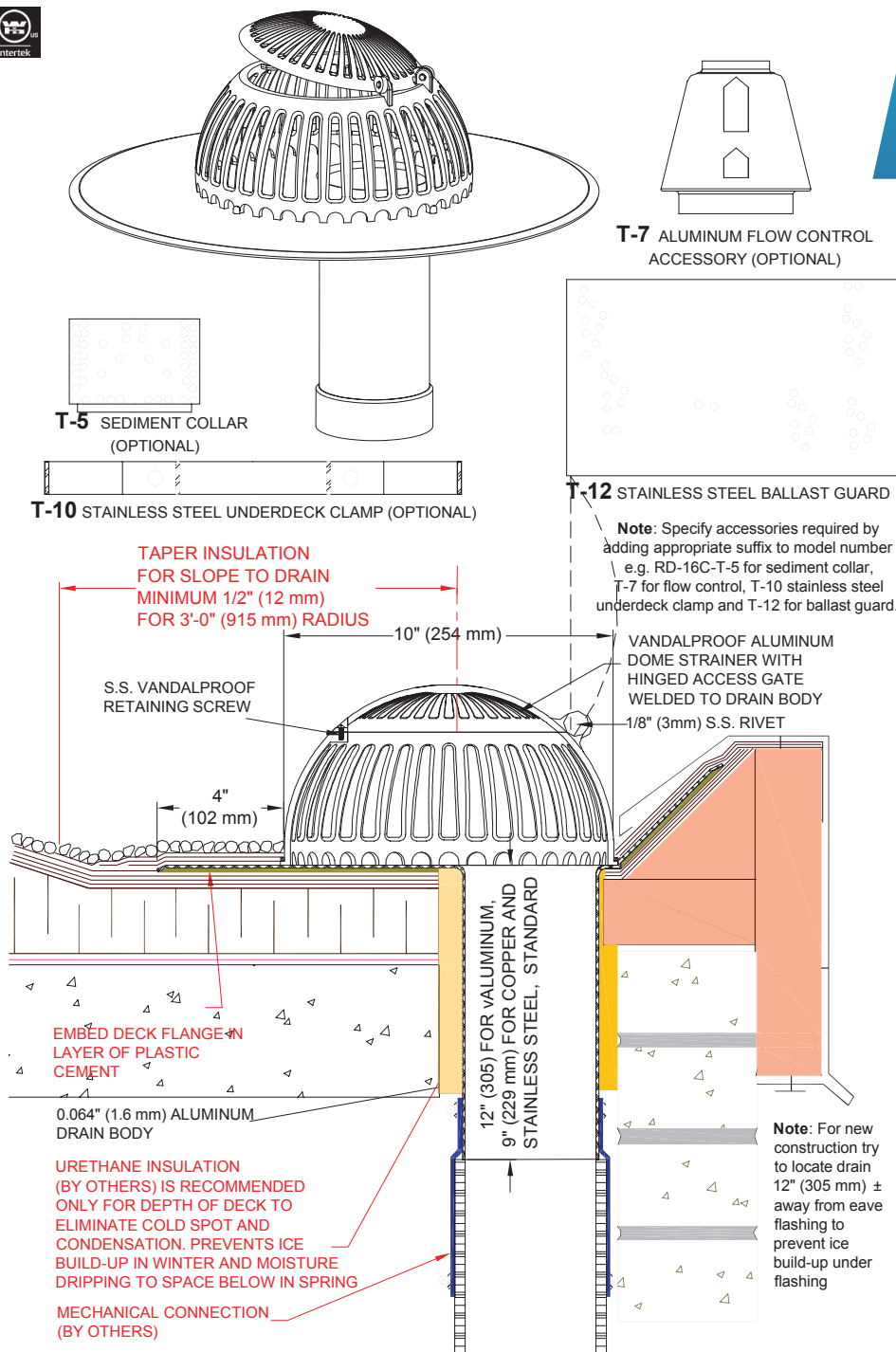


RD-14SS-RR (Stainless Steel)  
Roof Drain

**Material Specification for RD-14C-RR (Copper) and RD-14SS-RR (Stainless Steel) Roof Drains (RD-14A-RR Aluminum Illustrated on page M-9)**

**Note: In Short Form specification on front of sheet, edit clause to reflect choice of copper (RD-14C-RR) or stainless steel (RD-14SS-RR) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-14A-RR	Cast Aluminum	Stainless Steel	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Stainless Steel
RD-14C-RR	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813) pipe: DWV 0.058" (1.47mm)	Copper	Copper or Painted Aluminum	Stainless Steel
RD-14SS-RR	Cast Aluminum	Stainless Steel	Stainless Steel base: 26Ga. (0.476mm) pipe: 304L 0.058" (1.47mm)	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



## ROOF SPECIALTIES RD-16A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Offset Outlet)

### DESCRIPTION:

The Thaler RD-16A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, aluminum body, deck flange and straight offset outlet fitted with a aluminum ferrule.

### PROMINENT FEATURES:

Easy installation for applications requiring new hook-up (see Recommended Use). Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key openable) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

With Brass Ferrule: 2" to 8" (51 mm to 204 mm).

### OPTIONS:

Brass ferrule. T-5 copper sediment collar. T-10 stainless steel under-deck clamp (provides snug installation in otherwise insecure applications). T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

For flat roofs in new or existing construction employing conventional roof (membrane above insulation) or inverted roof and new hook-up e.g. new installation in low spots subject to ponding water at parapet walls, roof/wall juncture, flat/sloped roof transition. Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thicknesses.

### APPROVALS:

Conforms with CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-16A Aluminum drain for [2" to 8" (51 mm to 203 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .064" (1.6 mm) aluminum drain body, deck flange and straight offset outlet with [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; as manufactured by Thaler Metal Industries, 1-800-387-7217 Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-16A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Offset Outlet) Note: RD-16C (Copper) and RD-16SS (Stainless Steel) similar. See reverse side of page for material change.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-16A roof drain is installed by coring or cutting the roof assembly, bending the base over slope, fitting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

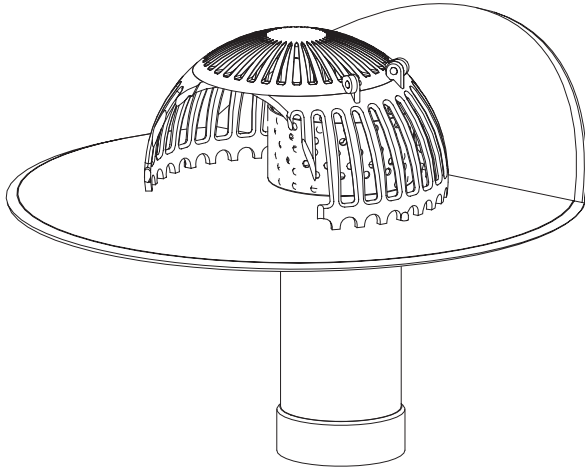
**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-16A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

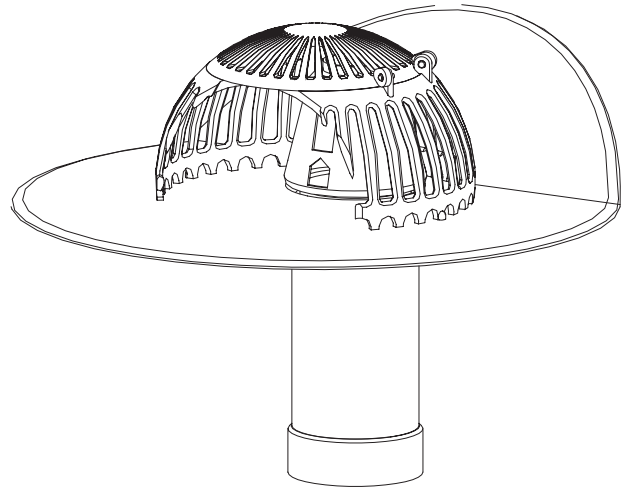
**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



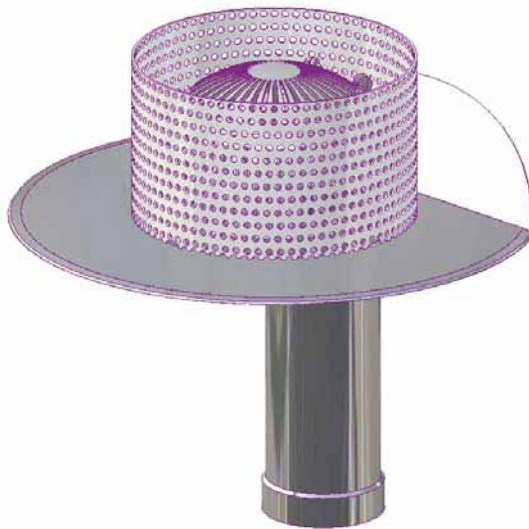




**Optional T-5 Sediment Collar**  
(Shown Friction Fitted To  
Drain Body)



**Optional T-7 Flow Control Accessory**  
(Shown Friction Fitted To Drain Body)



**Optional T-12 Stainless Steel Ballast Guard**  
(Shown Friction Fitted To Dome Strainer of RD-16SS Roof Drain)

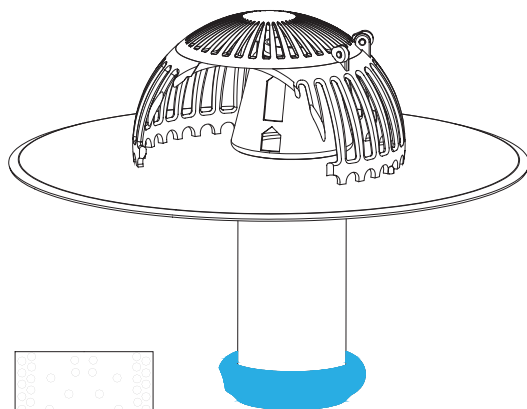


**RD-16C (Copper)**

**Material Specification for RD-16C (Copper) and RD-16SS  
(Stainless Steel) Roof Drains (RD-16A Aluminum Illustrated on page M-10)**

**Note: In Short Form specification on front of sheet, edit clause to reflect choice of copper (RD-16C) or stainless steel (RD-16SS) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	Ferrule	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
<b>RD-16A</b>	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
<b>RD-16C</b>	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Brass	Copper	Copper or Painted Aluminum	Stainless Steel
<b>RD-16SS</b>	Cast Aluminum	Stainless Steel	Stainless Steel base: 26Ga. (0.476mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**T-5 SEDIMENT COLLAR (OPTIONAL)**

**T-10 STAINLESS STEEL UNDERDECK CLAMP (OPTIONAL)**

**TAPER INSULATION FOR SLOPE TO DRAIN  
MINIMUM 1/2" (12 mm)  
FOR 3'-0" (915 mm) RADIUS**

**S.S. VANDALPROOF  
RETAINING SCREW**

**EMBED DECK FLANGE IN  
LAYER OF PLASTIC CEMENT**

**URETHANE INSULATION  
(BY OTHERS) IS RECOMMENDED  
ONLY FOR DEPTH OF DECK TO  
ELIMINATE COLD SPOT AND  
CONDENSATION. PREVENTS ICE  
BUILD-UP IN WINTER AND MOISTURE  
DRIPPING TO SPACE BELOW IN SPRING**

**EXISTING WATER LEADER**

**EPDM SUPER SEAL**

**T-7 ALUMINUM FLOW CONTROL  
ACCESSORY (OPTIONAL)**



**T-12 STAINLESS STEEL BALLAST GUARD**

**Note:** Specify accessories required by adding appropriate suffix to model number e.g. RD-16C-RR-T-5 for sediment collar, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for ballast guard.

**VANDALPROOF ALUMINUM  
DOME STRAINER WITH  
HINGED ACCESS GATE  
WELDED TO DRAIN BODY**

**1/8" (3mm) S.S. RIVET**

**12" (305 mm) FOR ALUMINUM,  
9" (229 mm) FOR COPPER AND  
STAINLESS STEEL, STANDARD**

**0.064" (1.6 mm)  
ALUMINUM  
DRAIN BODY**

## ROOF SPECIALTIES RD-16A-RR VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Low Spot, Retrofit, Offset Outlet)

### DESCRIPTION

The Thaler RD-16A-RR Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, flat aluminum body, deck flange and straight offset outlet fitted with a patented EPDM sealing ring (optional Thaler Super-Seal). The Super-Seal provides a superior seal in the event drains or pipes become clogged.

### PROMINENT FEATURES:

Easy installation for retrofit applications requiring new hook-up (see Recommended Use). Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key opening) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain. Leader Diameters: With Super-Seal EPDM Sealing Ring: 1-3/4" to 5-3/4" (44 mm to 146 mm). See detail at left for specific sizes.

### OPTIONS:

without Super-Seal on outlet (see Thaler Super-Seal Retrofit Drain Seal literature). T-5 aluminum sediment collar. Stainless steel under-deck clamp (provides snug installation in otherwise insecure applications). T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

For flat roofs in existing construction employing conventional roof (membrane above insulation) or inverted roof and new hook-up e.g. new installation in low spots subject to ponding water at parapet walls, roof/wall juncture, flat/sloped roof transition. Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thicknesses.

### APPROVALS:

Conforms with CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-16A-RR aluminum drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .064" (1.6 mm) aluminum flat drain body, deck flange and straight offset aluminum outlet with [T-5 aluminum sediment collar;] [T-9 Super-Seal EPDM sealing ring;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; as manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-16A-RR VANDALPROOF ALUMINUM RETROFIT ROOF DRAIN (All Purpose, Low Spot, Retrofit, Offset Outlet) Note: RD-16C-RR (Copper) AND RD-16SS-RR (Stainless Steel) Roof Drain similar. See reverse side of page for material change.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-14A-RR roof drain is installed by fitting the drain outlet into the rainwater leader, by slowly rotating and pushing down into position, installing the dome strainer (including any optional accessories) and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-14A-RR-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.





**Optional T-5 Sediment Collar**  
(Shown Friction Fitted To Drain Body)



**Optional T-7 Flow Control Accessory**  
(Shown Friction Fitted To Drain Body)



**Optional T-12 Stainless Steel Ballast Guard**  
(Shown Friction Fitted To Dome Strainer of RD-16SS-RR Roof Drain)



**RD-16C-RR (Copper)**

**Material Specification for RD-16C-RR (Copper) and RD-16SS-RR (Stainless Steel) Roof Drains (RD-16A-RR Aluminum Illustrated on page M-11)**  
**Note: In Short Form specification on front of sheet, edit clause to reflect choice of copper (RD-16C-RR) or stainless steel (RD-16SS-RR) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
<b>RD-16A-RR</b>	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Stainless Steel
<b>RD-16C-RR</b>	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Copper	Copper or Painted Aluminum	Stainless Steel
<b>RD-16S-RR</b>	Cast Aluminum	Stainless Steel	Stainless Steel base: 26Ga. (0.476mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel

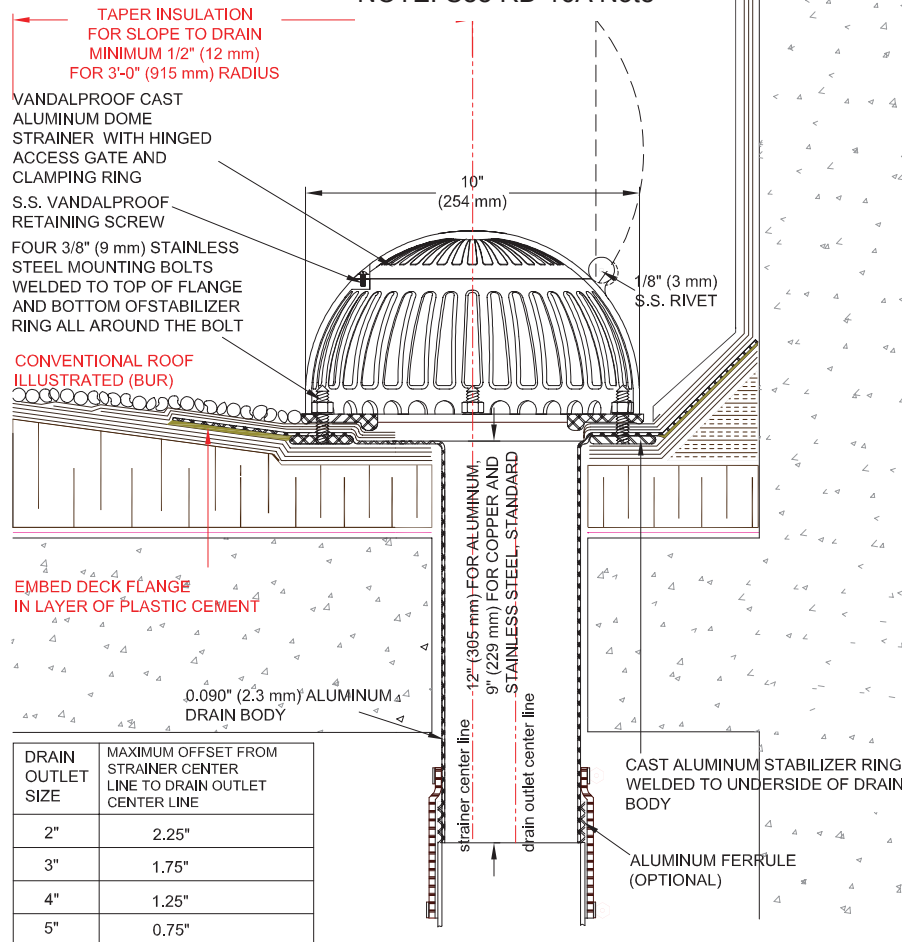




RD-160A

RD-160SS

NOTE: See RD-16A Note



## ROOF SPECIALTIES RD-160A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Offset Outlet)

### DESCRIPTION:

The Thaler RD-160A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, cast aluminum stabilizer ring, stainless steel mounting bolts, aluminum body, deck flange and straight offset outlet fitted with an aluminum ferrule (optional).

### PROMINENT FEATURES:

Easy installation for applications requiring new hook-up (see Recommended Use). Non-removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key openable) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

With Brass Ferrule: 2" to 5" (51 mm to 127 mm).

### OPTIONS:

T-6 Brass ferrule. T-5 copper sediment collar. T-10 stainless steel under-deck clamp (provides snug installation in otherwise insecure applications). T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

For flat roofs in new or existing construction employing conventional roof (membrane above insulation) or inverted roof and new hook-up e.g. new installation in low spots subject to ponding water at [parapet walls, roof/wall juncture, flat/sloped roof transition. Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thicknesses.

### APPROVALS:

Conforms with CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-160A Aluminum drain for [2" to 5" (51 mm to 127 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate; .064" (1.6 mm) aluminum drain body, deck flange and straight offset outlet with, cast aluminum stabilizer ring, 3/8" (9 mm) aluminum bolts welded to drain body and stabilizer ring, [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; as manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-160A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Offset Outlet) Note: RD-160C (Copper) and RD-160SS (Stainless Steel) similar. See reverse side of page for material change.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-160A roof drain is installed by coring or cutting the roof assembly, bending the base over slope, fitting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

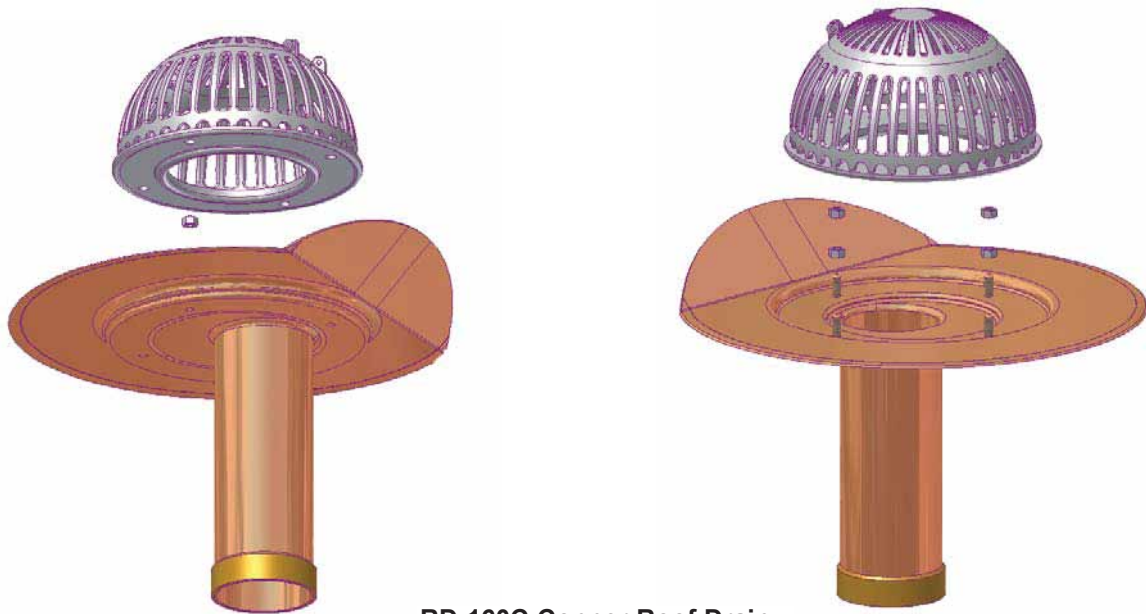
**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-160A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

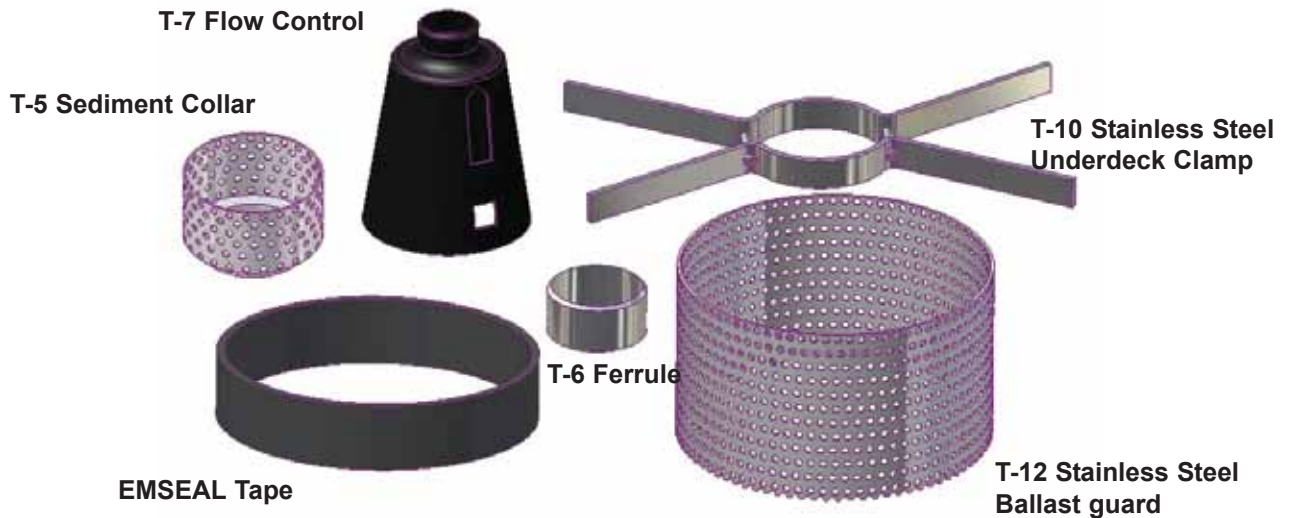
**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.





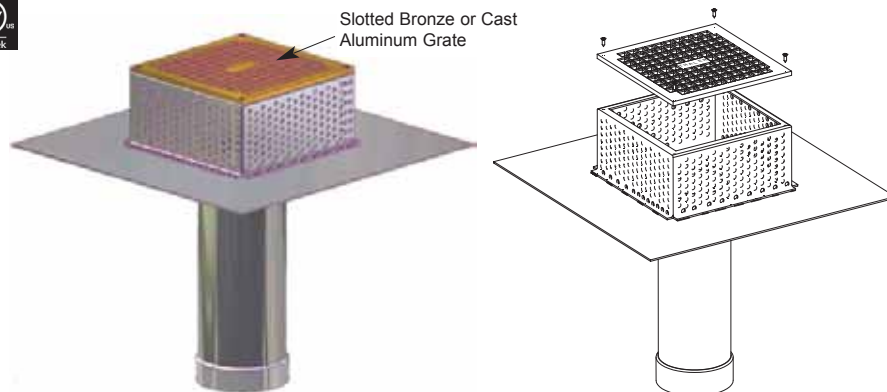
**RD-160C Copper Roof Drain**

#### ROOF DRAIN ACCESSORIES

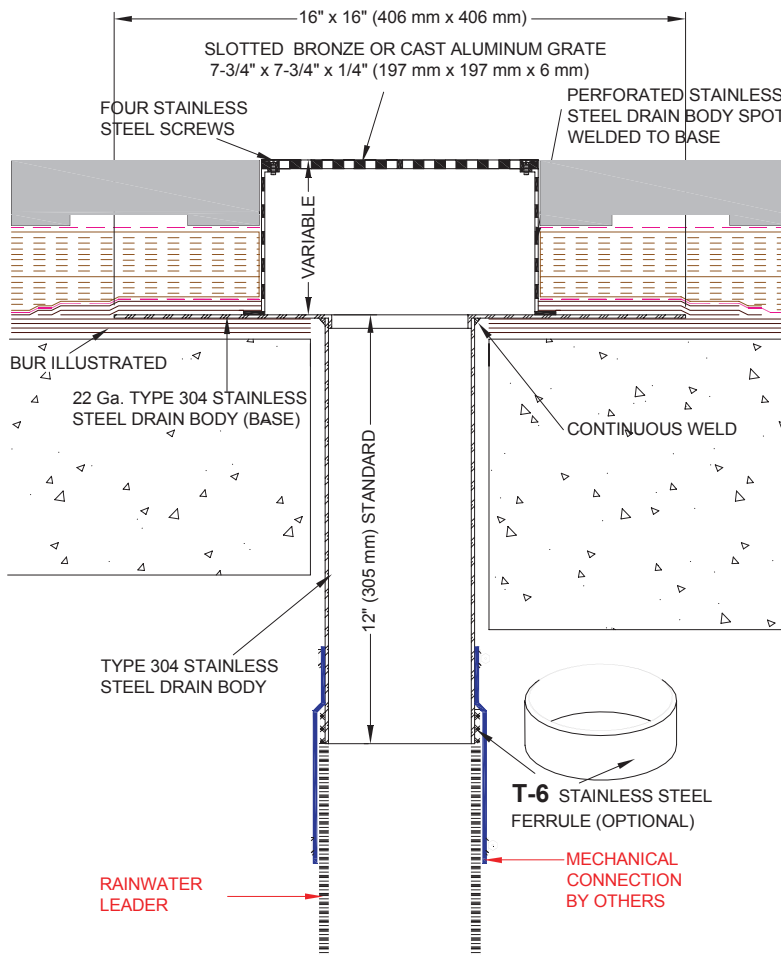


**Material Specification for RD-160C (Copper) and RD-160SS (Stainless Steel) Roof Drains (RD-160A Aluminum Illustrated on page M-12)**  
**Note: In Short Form specification on front of sheet, edit clause to reflect choice of copper (RD-160C) or stainless steel (RD-160SS) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	Ferrule	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
<b>RD-160A</b>	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
<b>RD-160C</b>	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813 mm) pipe: DWV 0.058" (1.47mm)	Brass	Copper	Copper or Painted Aluminum	Stainless Steel
<b>RD-160SS</b>	Cast Aluminum	Stainless Steel	Stainless Steel base: 26Ga. (0.476mm) pipe: 304 L 0.12"(3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**RD-19-SS (Exploded View Showing Drain Body Spot Welded to Base)**



## RD-19-SS STAINLESS STEEL ROOF DRAIN (For Promenade Decks or Terraces)

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-19-SS roof drain is installed by fitting the drain outlet into the rainwater leader, and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-19-SS-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

## ROOF SPECIALTIES RD-19-SS STAINLESS STEEL ROOF DRAIN (For Promenade Decks or Terraces)

### DESCRIPTION:

The Thaler RD-19-SS Roof Drain consists of a removable, slotted bronze or cast aluminum grate, perforated stainless steel drain body and straight seamless stainless steel outlet fitted with an optional stainless steel ferrule.

### PROMINENT FEATURES:

Easy installation for retrofit applications see page M-14.

### LEADER DIAMETERS:

With Stainless Steel Ferrule: 2" to 6" (51 mm to 152 mm). See detail at left for specific sizes.

### OPTIONS:

Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thickness. Bolted drain body (see RD-19-SS-BDB on reverse side of page).

### RECOMMENDED USE:

For traffic bearing or landscaped roofs employing an inverted (protected) membrane e.g. promenade, podium or plaza deck roofs or roof gardens.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

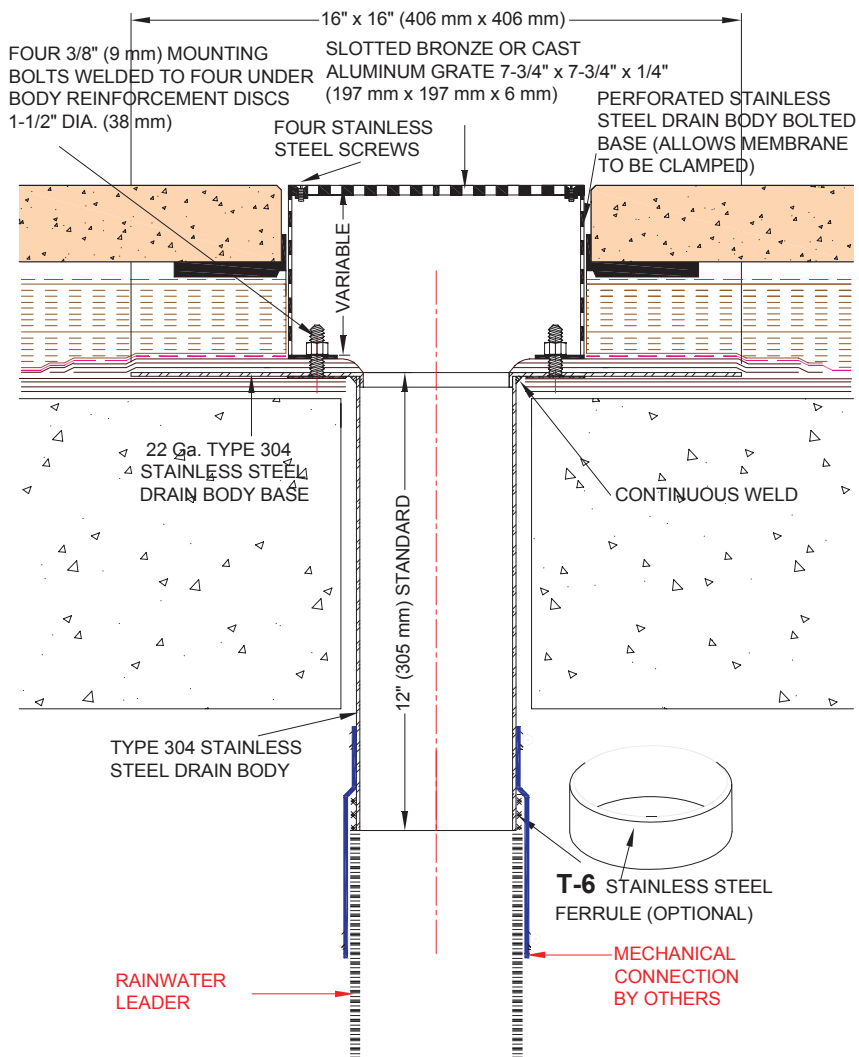
### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

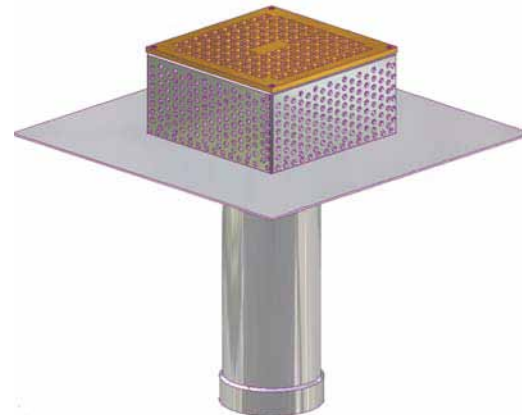
### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-19-SS drain for inverted roofs, for [4" (102 mm) to 6" (152 mm)] leader size; with: 7-3/4" (197 mm) removable, square, linear slotted [bronze] [cast aluminum] grate; 22 ga. (0.8 mm) Type 304 stainless steel drain body (base), 7-3/4" (197 mm) square x [specified height] with 1/4" (6 mm) or larger perforations in drain body; deck flange; Type 304 stainless steel straight outlet with [T-6 stainless steel ferrule]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

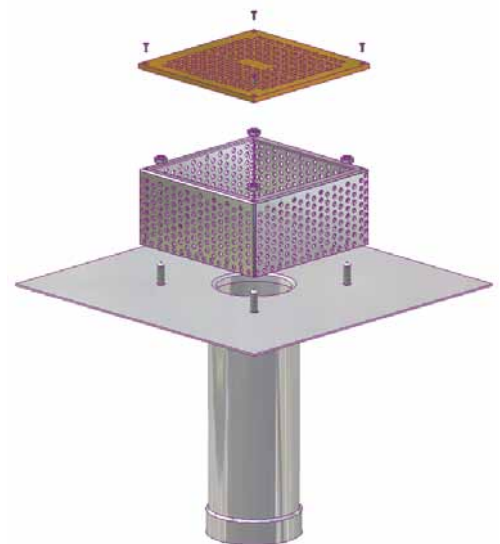




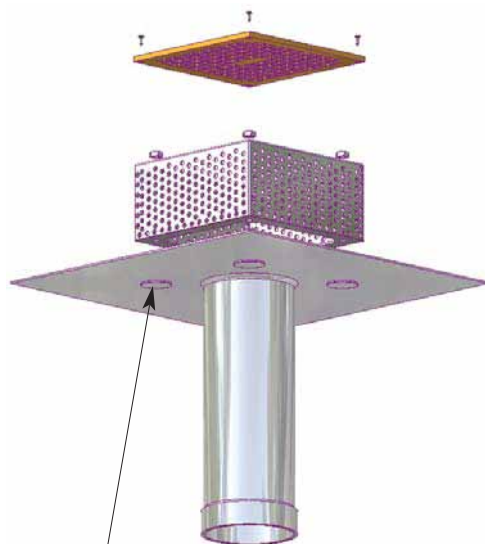
**RD-19-SS-BDB (Bolted Drain Body) ROOF DRAIN (OPTIONAL)**



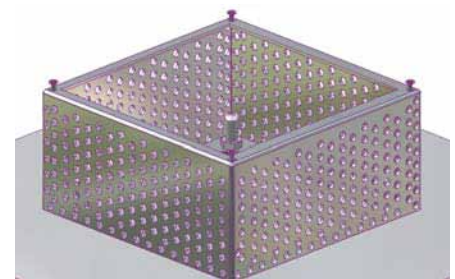
**RD-19-SS-BDB**



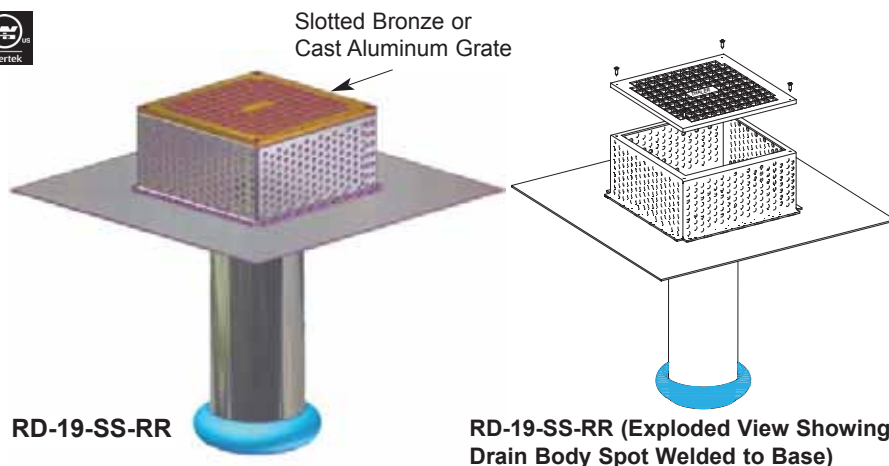
**Exploded View Showing Mounting Bolts Welded to Reinforcement Discs**



**Exploded View Showing Under-Body Reinforcement Discs**

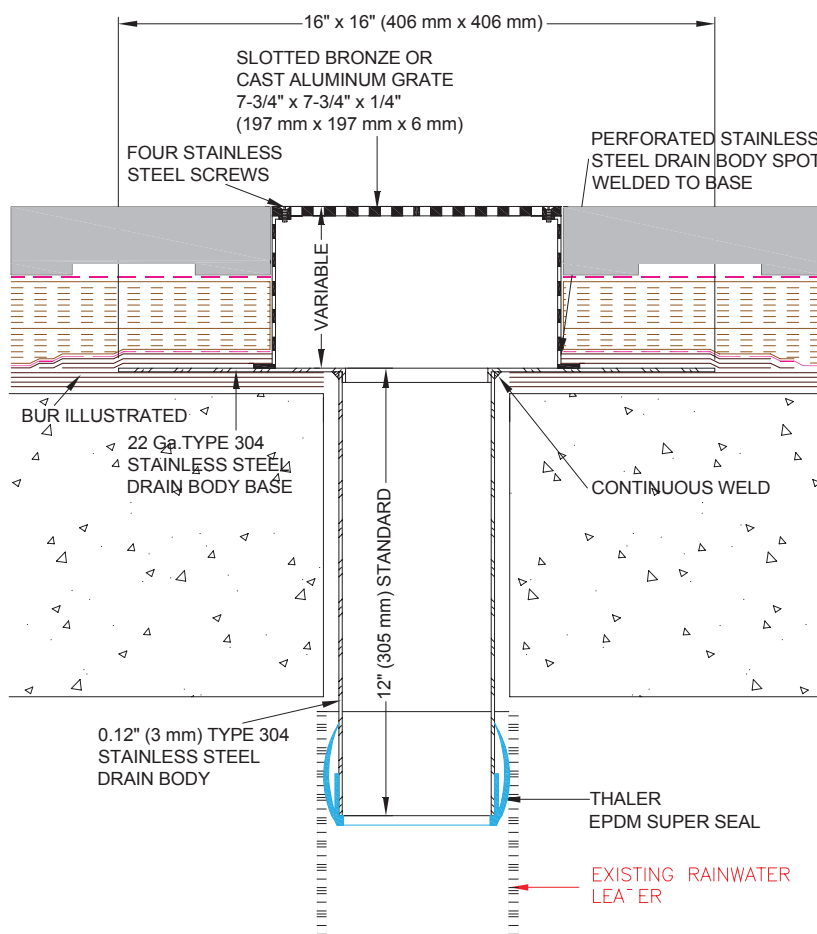


**View Showing Drain Body Bolted to Base For Clamping Membrane**



**RD-19-SS-RR**

**RD-19-SS-RR (Exploded View Showing Drain Body Spot Welded to Base)**



## RD-19-SS-RR STAINLESS STEEL RETROFIT ROOF DRAIN (For Promenade Decks or Terraces)

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-19-SS-RR retrofit roof drain is installed by fitting the drain outlet into the rainwater leader, by slowly rotating and pushing down into position, and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-19-RR-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

### ROOF SPECIALTIES

## RD-19-SS-RR STAINLESS STEEL RETROFIT ROOF DRAIN (For Promenade Decks or Terraces)

### DESCRIPTION:

The Thaler RD-19-SS-RR Retrofit Roof Drain consists of a removable, slotted bronze or cast aluminum grate, perforated stainless steel drain body and straight seamless stainless steel outlet fitted with patented EPDM sealing ring (Thaler Super-Seal). The Super-Seal provides a superior seal in the event drains or pipes become clogged.

### PROMINENT FEATURES:

Easy installation for retrofit applications requiring new hook-up (see Recommended Use).

### LEADER DIAMETERS:

With Super-Seal EPDM Sealing Ring: 1-3/4" to 5-3/4" (44 mm to 146 mm).

### OPTIONS:

EPDM Super-Seal on outlet (see Thaler Super-Seal Retrofit Drain Seal literature). Suitable for PVC, cast iron, steel, copper, or other type leaders in both Schedule 40 or 80 leader thicknesses. Bolted drain body (see RD-19-SS-SS-BDB on reverse side of page).

### RECOMMENDED USE:

For traffic bearing or landscaped roofs employing an inverted (protected) membrane e.g. promenade, podium or plaza deck roofs or roof gardens.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

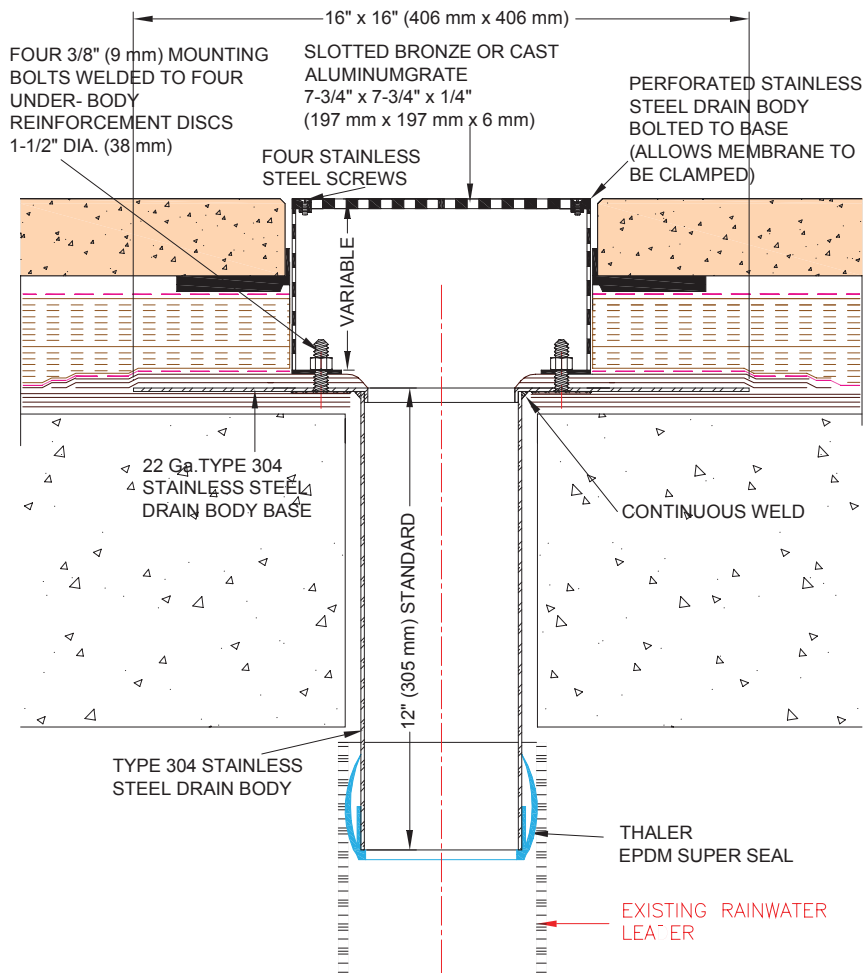
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

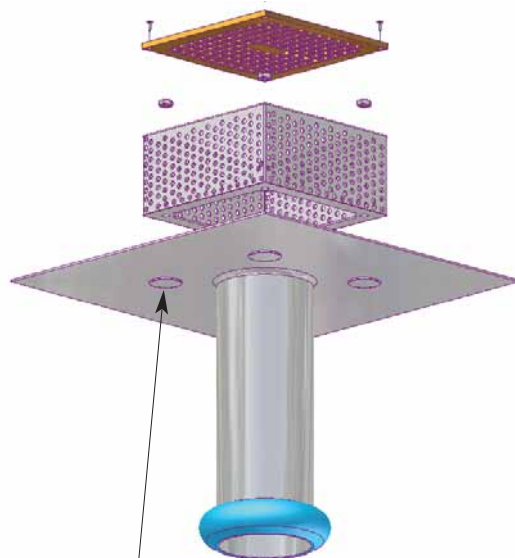
No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

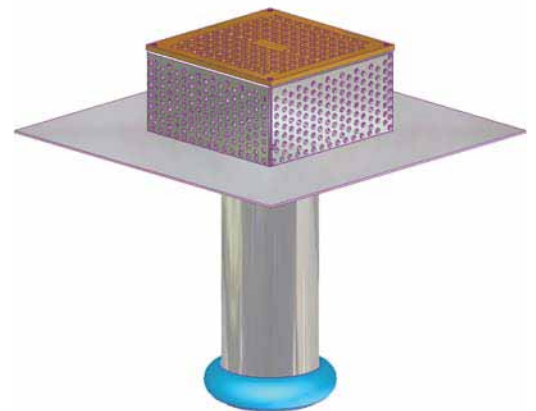
**Roof drains:** Thaler RD-19-SS-RR retrofit roof drain for inverted roofs, for [1-3/4" (44 mm) to 5-3/4" (146 mm)] leader size; with: 7-3/4" (197 mm) removable, square, slotted [bronze][cast aluminum] grate; 22 Ga. (0.8 mm) Type 304 stainless steel drain body, 7-3/4" (197 mm) square x [specified height] with 1/4" (6 mm) or larger perforations in drain body; deck flange; stainless steel straight outlet with Super-Seal EPDM sealing ring; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



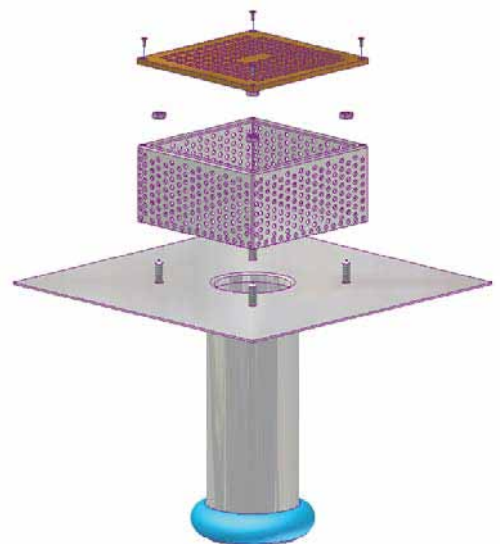
**RD-19-SS-RR-BDB (Bolted Drain Body) ROOF DRAIN (OPTIONAL)**



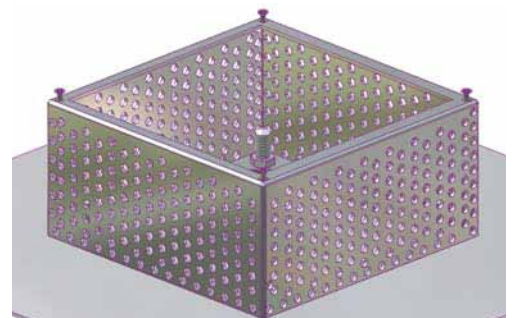
**Exploded View Showing Under-Body Reinforcement Discs**



**RD-19-SS-RR-BDB**



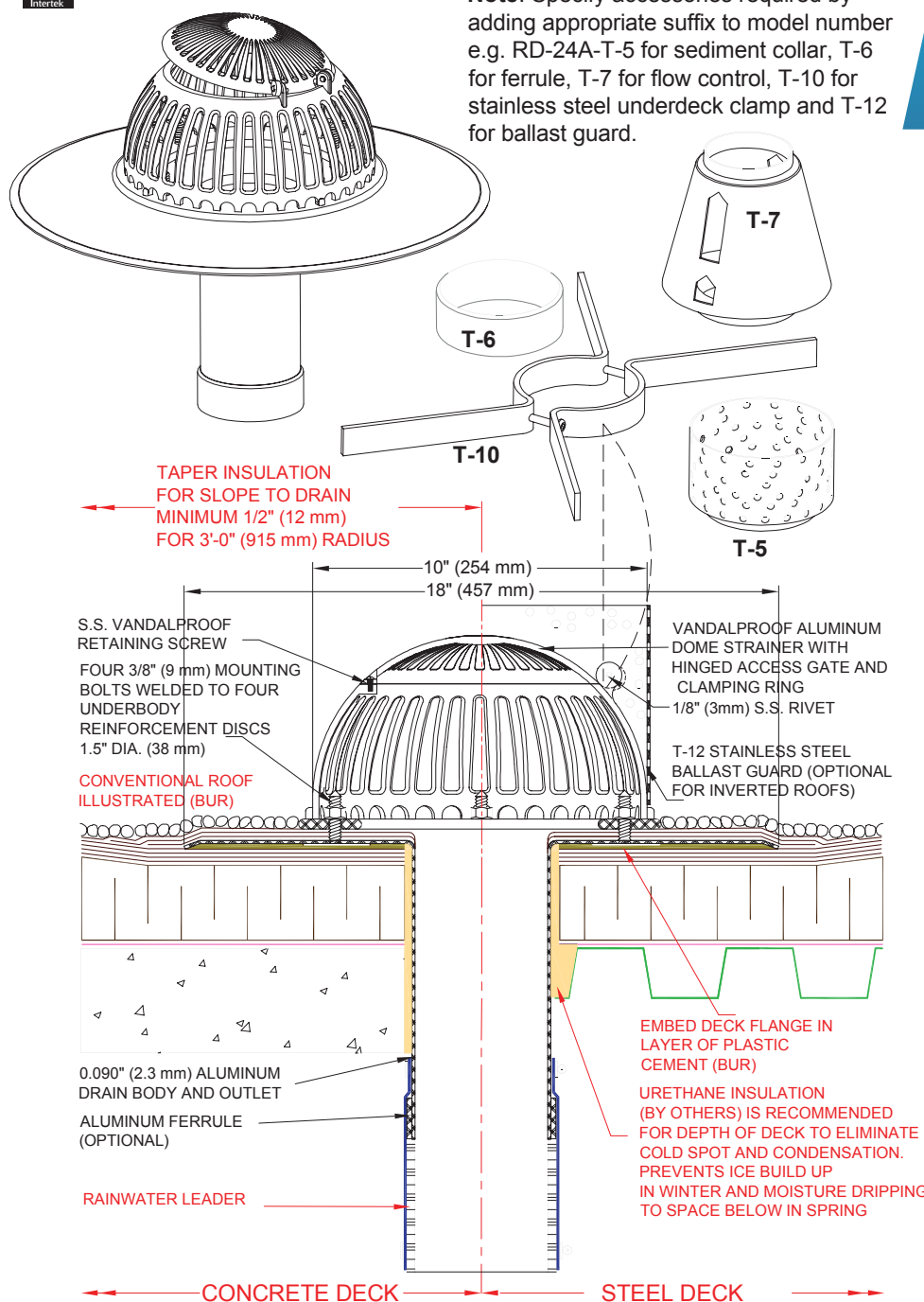
**Exploded View Showing Mounting Bolts Welded to Reinforcement Discs**



**View Showing Drain Body Bolted to Base For Clamping Membrane**



**Note:** Specify accessories required by adding appropriate suffix to model number e.g. RD-24A-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 for stainless steel underdeck clamp and T-12 for ballast guard.



## ROOF SPECIALTIES RD-24A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-24A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, mounting bolts welded to reinforcement discs 1.5" (38 mm) dia. drain body and straight aluminum outlet with aluminum ferrule and drain deck flange.

### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key openable) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

Suitable for 2", 3", 4", 5" and 6" (51 mm, 76 mm, 102 mm, 127 mm and 152 mm) leader sizes.

### OPTIONS:

T-5 aluminum sediment collar. Without T-6 aluminum ferrule. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose roof drain for flat roofs in new construction employing conventional roof (membrane above insulation) or inverted roof membrane application (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-24A drain for conventional roofs, for [2" (51 mm) 3" (76 mm)] [4" (102 mm)] [5" (127 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate and clamping ring; .090" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet [with] [without] T-6 aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to reinforcement discs; T-5 aluminum sediment collar; [T-6 aluminum ferrule; T-7 flow control accessory]; [T-10 stainless steel underdeck clamp]; [T-12 stainless steel ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-721 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-24A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet) Note: RD-24C (Copper) and RD-24SS (Stainless Steel) Roof Drain similar. See reverse side of page for material changes.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-24A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer assembly, and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-24A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



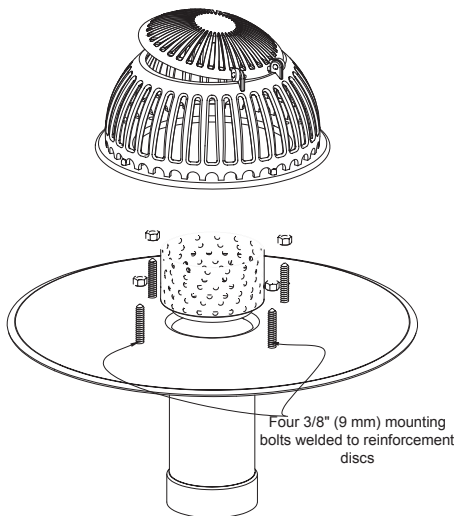




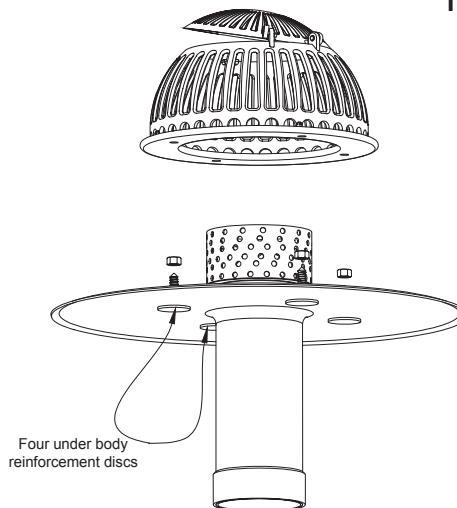
**RD-24 C Copper Roof Drain**



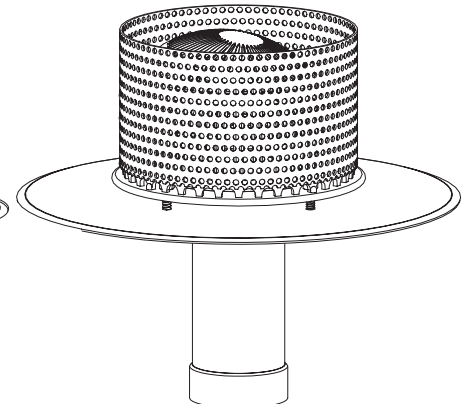
**Exploded View Showing Optional T-7 Flow Control Accessory**



**Exploded View Showing Optional T-5 Sediment Collar Accessory (Friction Fitted to Drain Body)**



**Exploded View Showing Optional T-5 Sediment Collar Accessory (Friction Fitted to Drain Body)**



**View Showing Optional T-12 Ballast Guard Accessory (Friction Fitted to Dome Strainer)**

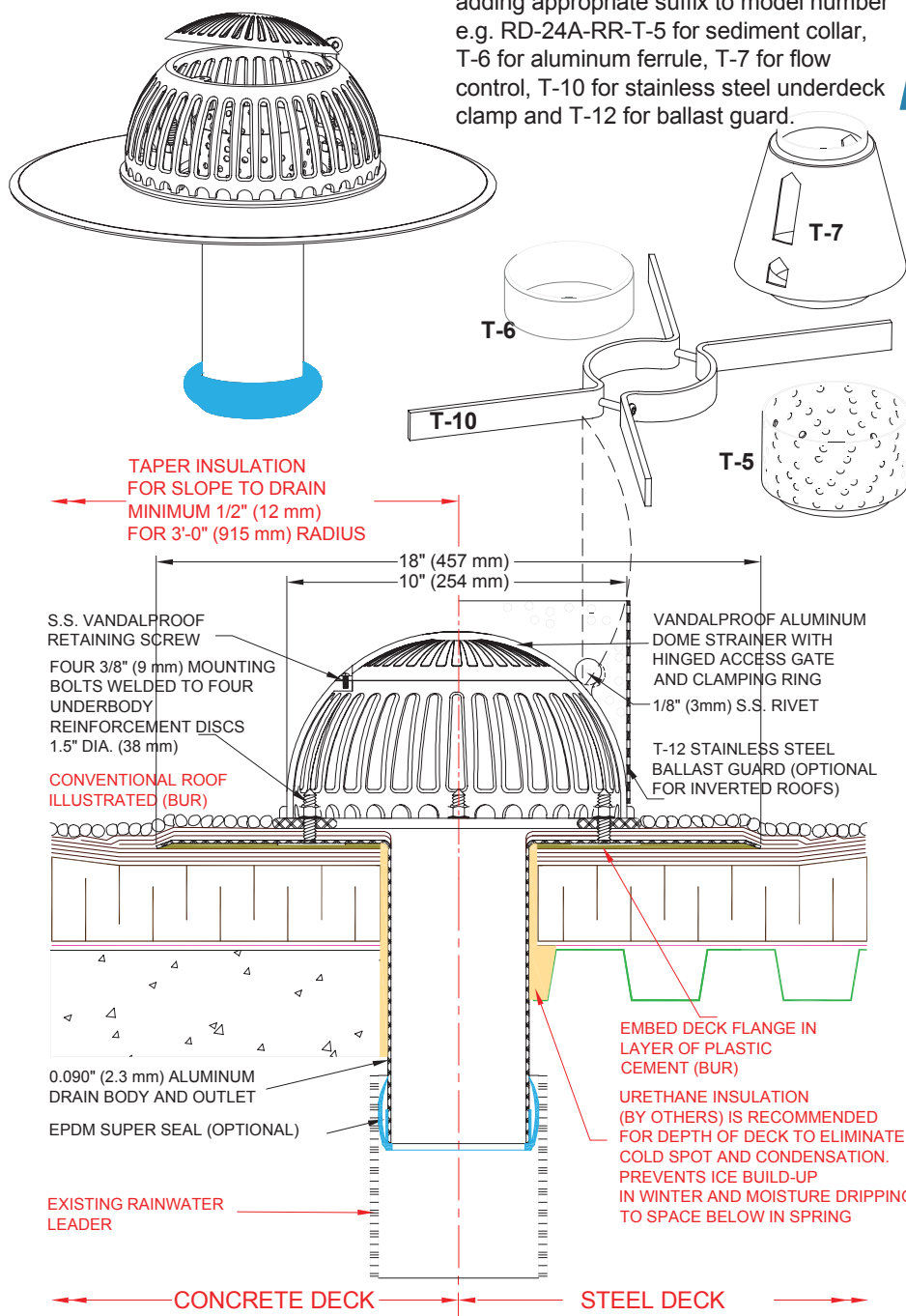
**Material Specification for RD-24C (Copper) and RD-24SS (Stainless Steel) Roof Drains  
(RD-24A Aluminum Roof Drain Illustrated on page M-15)**

**Note: In Short Form Specification on front side of sheet, edit clause to reflect choice of copper (RD-24C) or stainless steel (RD-24SS) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Drain Body and Base	Bolts and Nuts	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-10 Underdeck Clamp	T-12 Ballast Guard
<b>RD-24A</b>	Cast Aluminum	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Stainless Steel
<b>RD-24C</b>	Cast Aluminum	Copper base: 24 oz. 0.032" (0.813 mm) pipe: DWV 0.058" (1.47mm)	Stainless Steel	Copper	Brass	Copper or Painted Aluminum	Stainless Steel	Stainless Steel
<b>RD-24SS</b>	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12"(3mm)	Stainless Steel	Aluminum	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel	Stainless Steel



**Note:** Specify accessories required by adding appropriate suffix to model number e.g. RD-24A-RR-T-5 for sediment collar, T-6 for aluminum ferrule, T-7 for flow control, T-10 for stainless steel underdeck clamp and T-12 for ballast guard.



## ROOF SPECIALTIES RD-24A-RR VANDALPROOF ALUMINUM RETROFIT ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-24A-RR Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, mounting bolts welded to underbody reinforcement discs 1.5" (38 mm) dia., drain body and straight aluminum outlet with EPDM sealing ring (optional Thaler Super-Seal). The super seal provides a superior seal in the event drains or pipes become clogged.

### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key openable) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

Suitable for 1-3/4" to 7-3/4" (44 mm to 197 mm) leader sizes.

### OPTIONS:

T-5 aluminum sediment collar. T-7 aluminum flow control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamping ring. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose roof drain for flat roofs in new or existing construction employing conventional roof (membrane above insulation) or inverted roof membrane application with ballast guard. Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-24A-RR drain for [1-3/4" to 7-3/4" (44 mm to 197 mm)] leader sizes; with: vandalproof cast aluminum dome with hinged access gate and four 3/8" (9 mm) mounting bolts welded to underbody reinforcement discs, 0.090" (2.3 mm) aluminum drain body, deck flange and straight, aluminum outlet with EPDM Super Seal; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory]; [T-10 stainless steel underdeck clamp]; [T-12 stainless steel ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-24A-RR VANDALPROOF ALUMINUM RETROFIT ROOF DRAIN (All Purpose, Straight Outlet) Note: RD-24C-RR (Copper) and RD-24SS-RR (Stainless Steel) Roof Drain similar. See reverse side of page for material change.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-24A-RR roof drain is installed by fitting the drain outlet into the rainwater leader, by slowly rotating and pushing down into position, installing the dome strainer assembly, and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-24A-RR-P; weld roofing to drain flange using PVC torch.

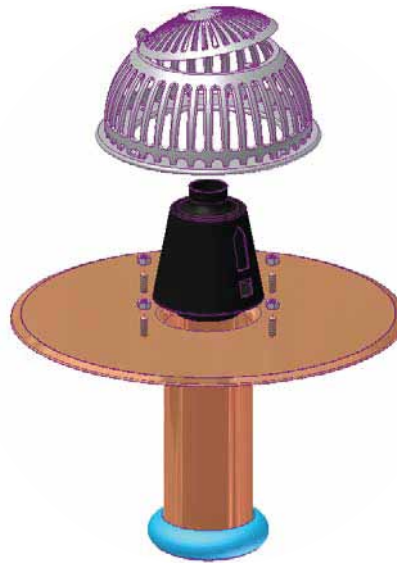
**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

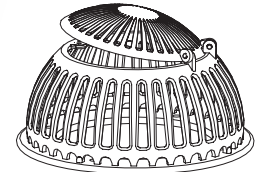




**RD-24SS-RR Stainless Steel  
Retrofit Roof Drain**

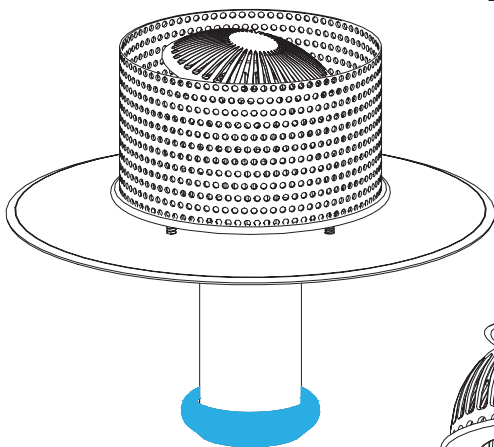


**Exploded View of RD-24C-RR Copper  
Retrofit Roof Drain Showing T-7  
Aluminum Flow Control Accessory**

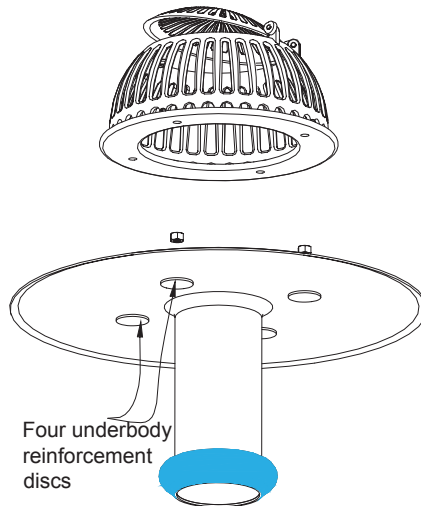


Four 3/8" (9 mm)  
mounting bolts  
welded to reinforcement  
discs

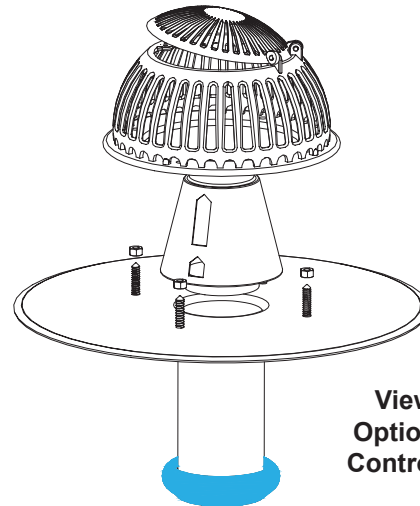
**Exploded View Showing  
Optional T-5 Sediment Collar Accessory**



**View Showing Ballast  
Guard Friction Fitted to  
Dome Strainer**



**Underside of  
Deck Flange showing  
Underbody  
Reinforcement Discs**



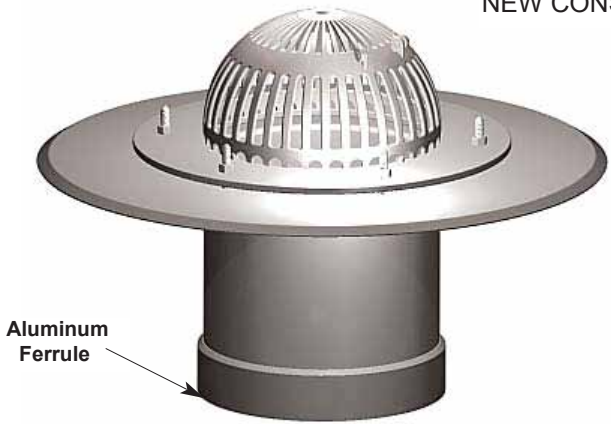
**View Showing  
Optional T-7 Flow  
Control Accessory**

**Material Specification for RD-24C-RR (Copper) and RD-24SS-RR (Stainless Steel) Roof Drains  
(RD-24A-RR Aluminum Roof Drain Illustrated on page M-16)**

**Note: In Short Form Specification on front side of sheet, edit clause to reflect choice of copper (RD-24C-RR) or stainless steel (RD-24SS-RR) roof drain in lieu of aluminum if desired.**

Drain Type	Dome Strainer	Drain Body and Base	Bolts and Nuts	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-10 Underdeck Clamp	T-12 Ballast Guard
RD-24A-RR	Cast Aluminum	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Stainless Steel
RD-24C-RR	Cast Aluminum	Copper base: 24 oz. 0.032" (0.813 mm) pipe: DWV 0.058" (1.47mm)	Stainless Steel	Copper	Brass	Copper or Painted Aluminum	Stainless Steel	Stainless Steel
RD-24SS-RR	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: Type 304 L 0.12"(3mm)	Stainless Steel	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel	Stainless Steel

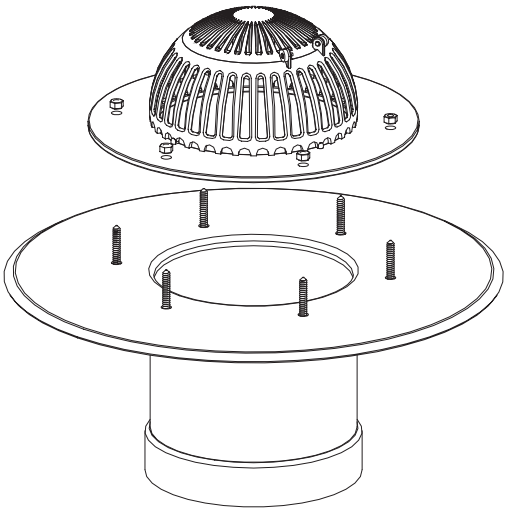
NEW CONSTRUCTION



**RD-24A-8 or RD-24A-10 VANDALPROOF BIG ALUMINUM ROOF DRAIN  
FOR 8" (203 mm) or 10" (254 mm) LEADER SIZES**

**SPECIFICATION (Short Form)**

**Roof drains:** Thaler RD-24A-8 or RD-24A-10 drain for [8" (203 mm)] [10" (254 mm)] leader sizes; with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring; .090" (2.4 mm) flat aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; six 3/8" (9 mm) aluminum bolts welded to reinforcement discs; [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

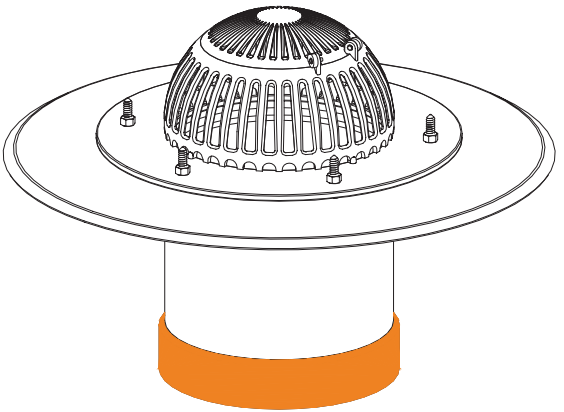


**Exploded View**

**ALSO AVAILABLE IN COPPER AND STAINLESS STEEL**



**Underside of Deck Flange showing  
Reinforcement Discs**



**RD-24C-8 or RD-24C-10 VANDALPROOF BIG COPPER ROOF DRAIN FOR 8" (203 mm) or 10" (254 mm) LEADER SIZES**

**Material Specification for RD-24C-8 or RD-24C-10 (Copper) and RD-4SS-8 or RD-4-10 (Stainless Steel) Roof Drains**



Drain Type	Dome Strainer	Clamping Ring	Drain Body and Base	Bolts and Nuts	Ferrule	T-12 Ballast Guard
RD-24A-8 or RD-24A-10	Cast Aluminum	Cast Aluminum	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Stainless Steel
RD-24C-8 or RD-24C-10	Cast Aluminum	Cast Aluminum	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47 mm)	Stainless Steel	Brass	Stainless Steel
RD-24SS-8 or RD-24SS-10	Cast Aluminum	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Stainless Steel

**RD-24SS-8 or RD-24SS-10 VANDALPROOF BIG STAINLESS STEEL ROOF DRAIN FOR 8" (203 mm) or 10" (254 mm) LEADER SIZES**

**ROOF SPECIALTIES**  
**RD-24A-8 or RD-24A-10**  
**VANDALPROOF BIG**  
**ALUMINUM ROOF DRAIN**  
[All Purpose, Straight Outlet].  
Also Available in Copper, Stainless,  
and for Re-roofing



# RE-ROOFING MODELS



**RD-24A-RR-8 or RD-24A-RR-10 VANDALPROOF BIG ALUMINUM RETROFIT ROOF DRAIN FOR 8" (203 mm) or 10" (254 mm) LEADER SIZES**



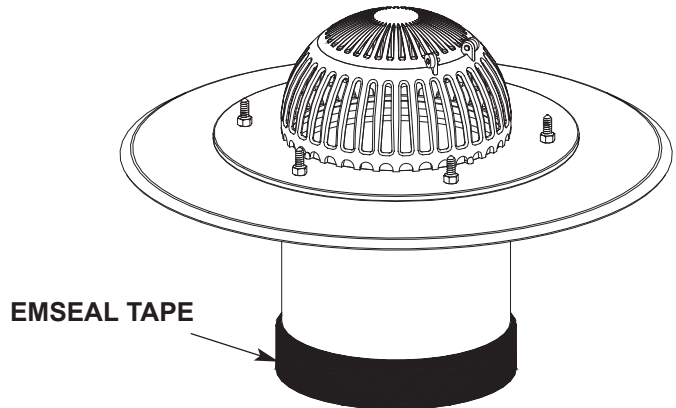
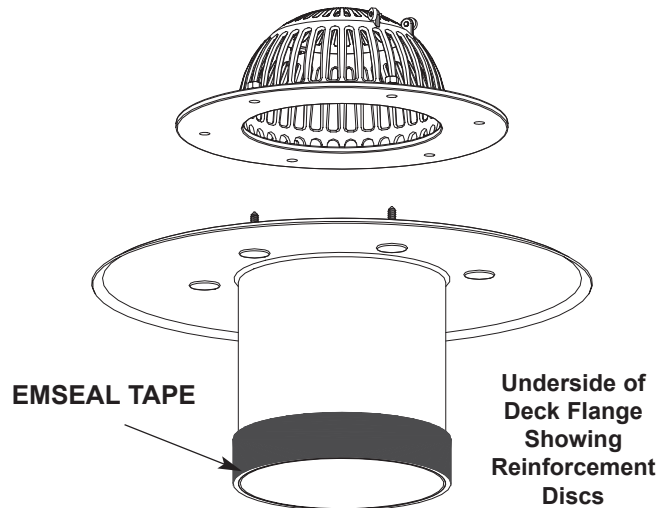
**RD-24A-RR-8 or RD-24A-RR-10 VANDALPROOF BIG COPPER RETROFIT ROOF DRAIN FOR 8" (203 mm) or 10" (254 mm) LEADER SIZES**



**RD-24A-RR-8 or RD-24A-RR-10 VANDALPROOF BIG STAINLESS STEEL RETROFIT ROOF DRAIN FOR 8" (203 mm) or 10" (254 mm) LEADER SIZES**

## SPECIFICATION (Short Form)

**Roof drains:** Thaler RD-24A-RR-8 or RD-24A-RR-10 drain for [8" (203 mm)] [10" (254 mm)] leader sizes; with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring; .090" (2.3 mm) flat aluminum drain body, deck flange and straight aluminum outlet with aluminum EMSEAL tape; six 3/8" (9 mm) aluminum bolts welded to reinforcement discs; [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



## Material Specification for RD-24C-RR-8 or RD-24C-RR-10 (Copper) and RD-24SS-RR-8 or RD-24SS-RR-10 (Stainless Steel) Roof Drains

Drain Type	Dome Strainer	Underdeck Clamp	Drain Body and Base	Bolts and Nuts	T-12 Ballast Guard
RD-24A-8 or RD-24A-10	Cast Aluminum	Stainless Steel	Aluminum 0.090" (2.3 mm)	Aluminum	Stainless Steel
RD-24C-8 or RD-24C-10	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47 mm)	Stainless Steel	Stainless Steel
RD-24SS-8 or RD-24SS-10	Cast Aluminum	Stainless Steel	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel



**RD-240A**

**RD-240SS**

## ROOF SPECIALTIES RD-240A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-240A Roof Drain consists of a vandalproof cast aluminum dome with hinged access gate, mounting bolts welded to reinforcement discs 1.5" (38 mm) dia. drain body and straight aluminum outlet with aluminum ferrule and drain deck flange.

### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains. Vandalproof hinged access gate (allen-key openable) allows drain to be cleaned if necessary, or dismantled by permitting access to bolts inside drain.

### LEADER DIAMETERS:

Suitable for 2" to 10" (51 mm to 254 mm) leader sizes.

### OPTIONS:

T-5 aluminum sediment collar. Without T-6 aluminum ferrule. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose roof drain for flat roofs in new construction employing conventional roof (membrane above insulation) or inverted roof membrane application (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Conforms with CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

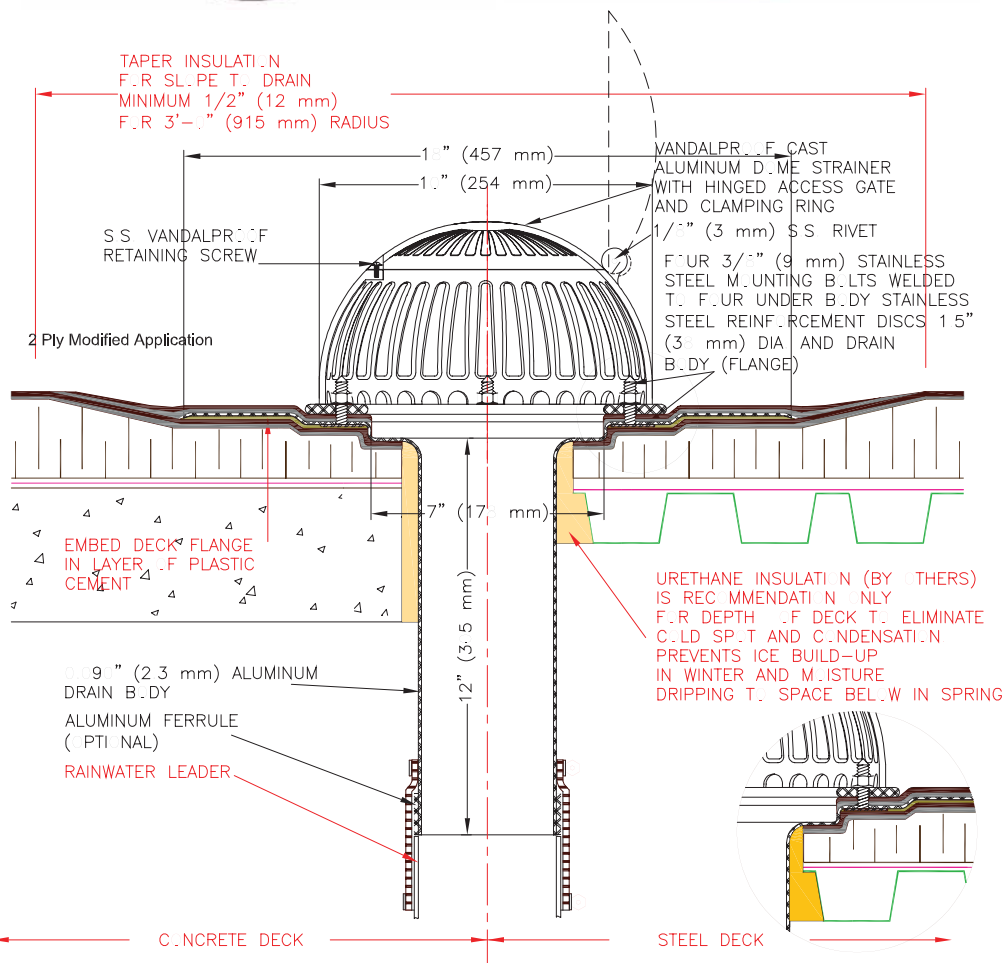
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-240A drain for conventional roofs, for [3" (76 mm)] [4" (102 mm)] [5" (127 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate; .090" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet [with] [without] T-6 aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to reinforcement discs; [T-5 aluminum sediment collar]; [T-6 aluminum ferrule]; [T-7 flow control accessory]; [T-10 stainless steel underdeck clamp]; [T-12 stainless steel ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-721 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



## RD-240A VANDALPROOF ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet) Note: RD-240C (Copper) and RD-240SS (Stainless Steel) Roof Drain similar. See reverse side of page for material changes.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-240A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer assembly, and as follows:

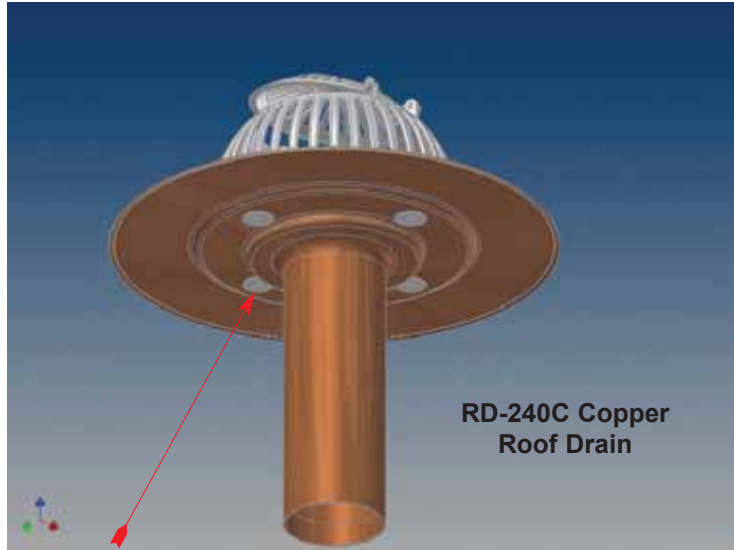
**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-240A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



Underside of Deck Flange showing Underbody Reinforcement Discs

Exploded View Showing four 3/8" (9 mm) mounting bolts welded to four underbody stainless steel reinforcement discs and drain body (flange)



### Roof Drain Accessories



### Material Specification for RD-240C (Copper) and RD-240SS (Stainless Steel) Roof Drains (RD-240A Aluminum Roof Drain Illustrated on page M-18)

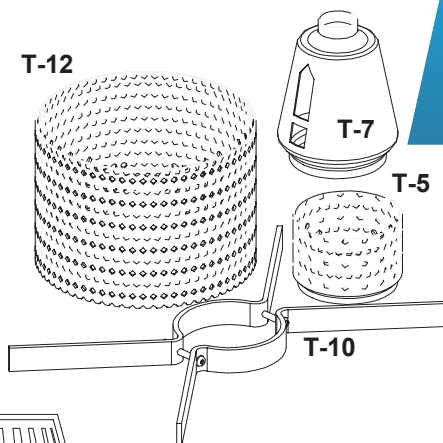
**Note:** In Short Form Specification on front side of sheet, edit clause to reflect choice of copper (RD-240C) or stainless steel (RD-240SS) roof drain in lieu of aluminum if desired.

Drain Type	Dome Strainer	Drain Body and Base	Bolts and Nuts	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-10 Underdeck Clamp	T-12 Ballast Guard
RD-240A	Cast Aluminum	Aluminum 0.090" (2.3 mm)	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Stainless Steel
RD-240C	Cast Aluminum	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Stainless Steel	Copper	Brass	Copper or Painted Aluminum	Stainless Steel	Stainless Steel
RD-240SS	Cast Aluminum	Stainless Steel base: 22Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel	Stainless Steel



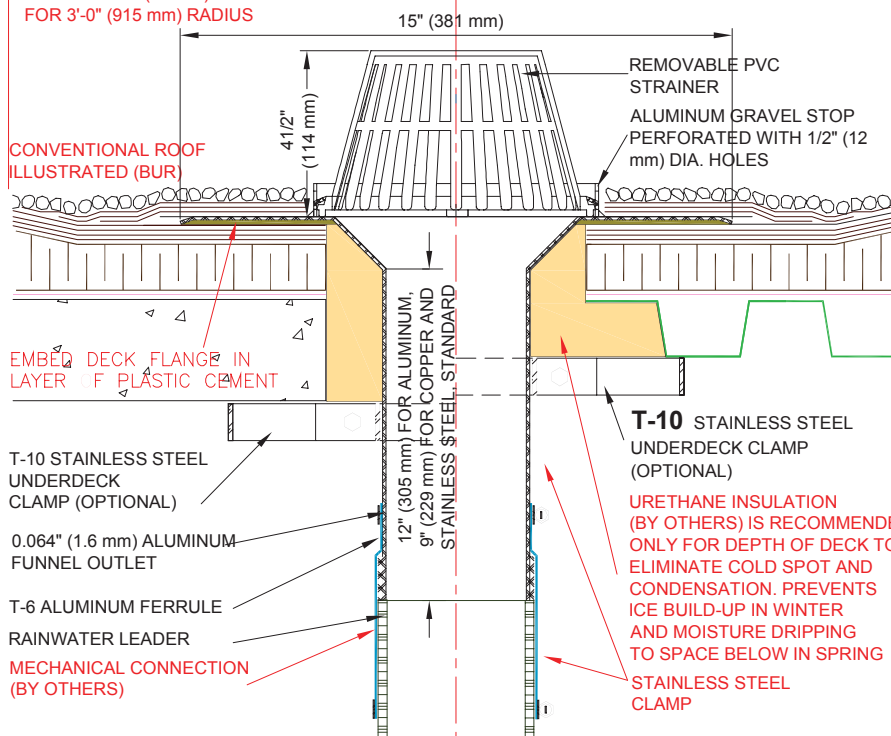


T-12



CAST ALUMINUM STRAINER (OPTIONAL)

TAPER INSULATION FOR SLOPE TO DRAIN MINIMUM 1/2" (12 mm) FOR 3'-0" (915 mm) RADIUS



**Note** Specify accessories required by adding appropriate suffix to model number e.g. RD-28A-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.

## ROOF SPECIALTIES RD-28A ECONOMY ALUMINUM ROOF DRAIN (All Purpose, Funnel Outlet)

### DESCRIPTION:

The Thaler RD-28A Economy Roof Drain consists of a removable PVC strainer, aluminum deck flange, perforated aluminum gravel stop and funnel type straight seamless aluminum outlet fitted with an aluminum ferrule.

### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains.

### LEADER DIAMETERS:

Suitable for 2" (51 mm) to 6" (152 mm) leader sizes.

### OPTIONS:

Cast aluminum strainer. T-5 aluminum collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-28A drain for [2" to 6" (51mm to 152 mm)] leader size, with: removable [PVC] [cast aluminum] strainer; perforated .064 (1.6 mm) seamless aluminum gravel stop; .064 (1.6 mm) deck flange and funnel outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory]; [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-28A ECONOMY ROOF DRAIN (Aluminum, Funnel Outlet)

## RD-28C ECONOMY ROOF DRAIN (Copper, Funnel Outlet)

## RD-28SS ECONOMY ROOF DRAIN (Stainless Steel, Funnel Outlet)

**Note:** RD-28C (Copper) and RD-28SS (Stainless Steel) similar. See reverse side of page for material changes.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-28A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-28A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



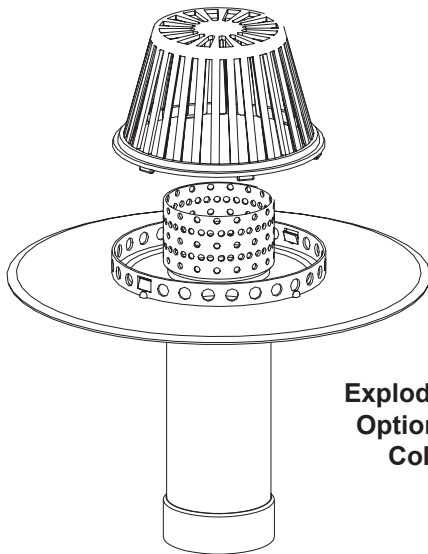




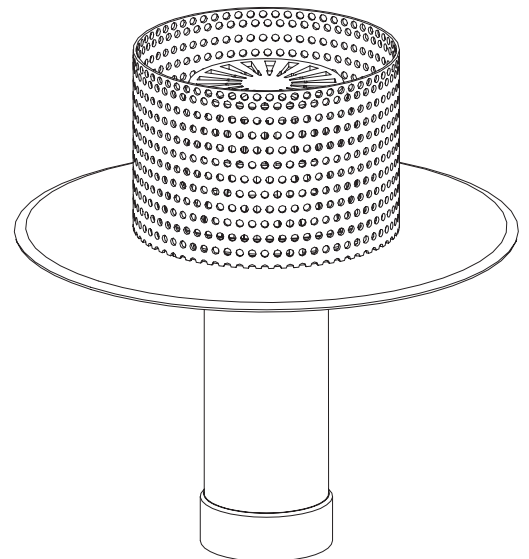
**RD-28C Copper Roof Drain  
(T-7 Flow Control Accessory  
Shown Friction Fitted to Drain  
Body)**



**Exploded View of RD-28SS Stainless Steel  
Roof Drain**



**Exploded View Showing  
Optional T-5 Sediment  
Collar Accessory**

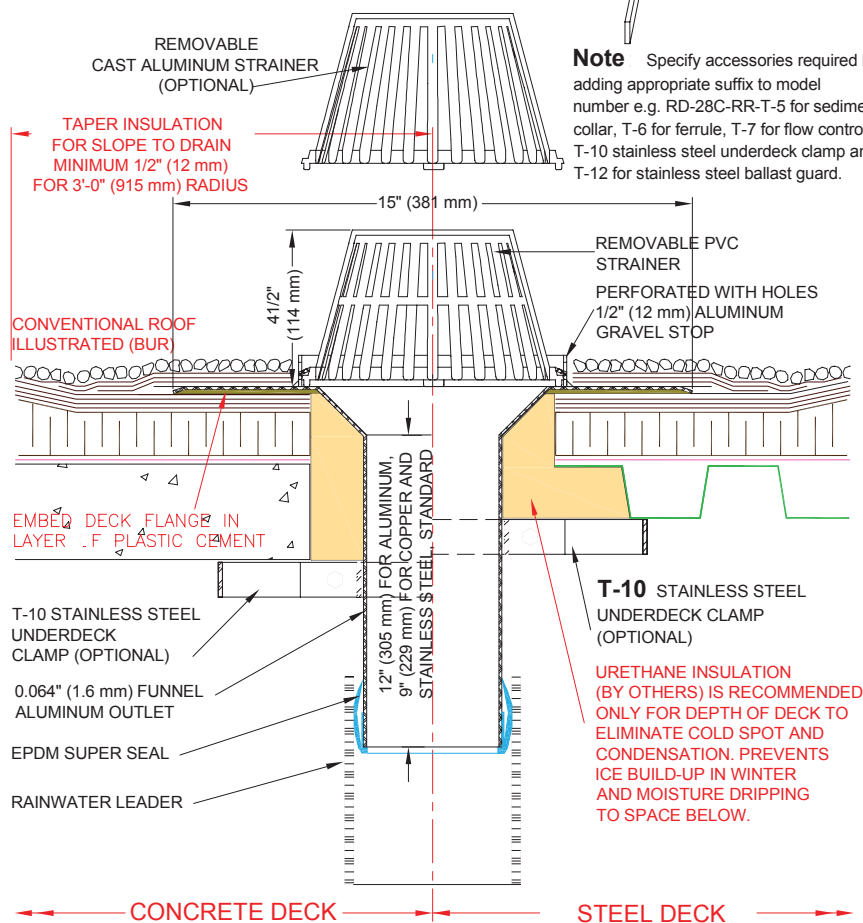
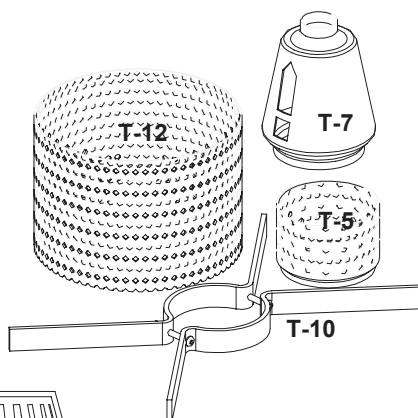


**View Showing Ballast Guard Friction  
Fitted to Dome Strainer**

**Material Specification for RD-28C (Copper) and RD-28SS (Stainless Steel) Roof Drains (RD-28A Aluminum Illustrated on page M-19)**

**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RD-28C) or stainless steel (RD-28SS) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
<b>RD-28A</b>	PVC or Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
<b>RD-28C</b>	PVC or Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
<b>RD-28SS</b>	PVC or Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**Note** Specify accessories required by adding appropriate suffix to model number e.g. RD-28C-RR-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.

**T-10 STAINLESS STEEL UNDERDECK CLAMP (OPTIONAL)**

**URETHANE INSULATION (BY OTHERS) IS RECOMMENDED ONLY FOR DEPTH OF DECK TO ELIMINATE COLD SPOT AND CONDENSATION. PREVENTS ICE BUILD-UP IN WINTER AND MOISTURE DRIPPING TO SPACE BELOW.**

## ROOF SPECIALTIES RD-28A-RR ECONOMY RETROFIT ALUMINUM ROOF DRAIN (All Purpose, Funnel Outlet)

### DESCRIPTION:

The Thaler RD-28A-RR Economy Roof Drain consists of a removable PVC strainer, aluminum deck flange, perforated aluminum gravel stop and funnel type straight seamless aluminum outlet fitted with a patented EPDM sealing ring (Thaler Super Seal). The Super Seal provides a superior seal in the event drains or pipes become clogged.

### PROMINENT FEATURES:

Provides best value for least cost when retrofitting existing drains; Super Seal ring permits faster, more economical installation than other comparably priced drains while providing an extremely reliable seal.

### LEADER DIAMETERS:

Suitable for 1-3/4", 2-3/4", 3-3/4", 4-3/4", and 5-3/4" (44 mm, 70 mm, 95 mm, 121 mm and 146 mm) leader sizes.

### OPTIONS:

Cast aluminum strainer. T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose retrofit economy drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-28A-RR drain for [1-3/4" (44 mm)] [2-3/4" (70 mm)] [3-3/4" (95 mm)] [4-3/4" (121 mm)] [5-3/4" (146 mm)] leader size, with: removable [PVC] [cast aluminum] strainer; perforated .064 (1.6 mm) seamless aluminum gravel stop; .064 (1.6 mm) deck flange and funnel outlet fitted with a Super Seal EPDM sealing ring; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory]; [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

## RD-28A-RR ECONOMY ROOF DRAIN (Aluminum Funnel Outlet) RD-28C-RR ECONOMY ROOF DRAIN (Copper Funnel Outlet) RD-28SS-RR ECONOMY ROOF DRAIN (Stainless Steel Funnel Outlet) Note: RD-28C-RR (Copper) and RD-28SS-RR (Stainless Steel) similar. See reverse side of page for material changes.

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-28A-RR roof drain is installed by fitting the drain outlet into the rainwater leader, by slowly rotating and pushing down into position, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-28A-RR-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

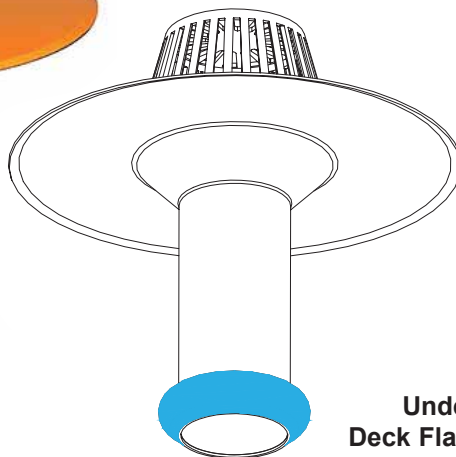




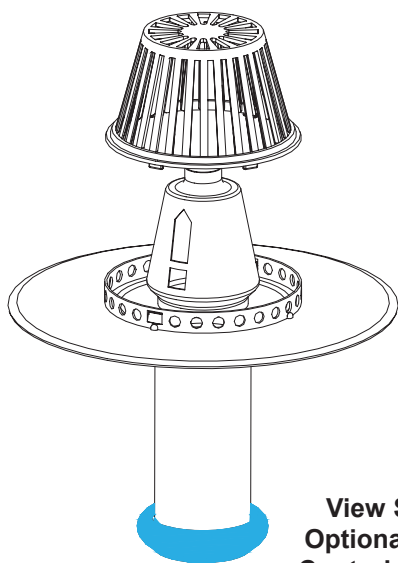
**RD-28C-RR (Copper  
Roof Drain)**



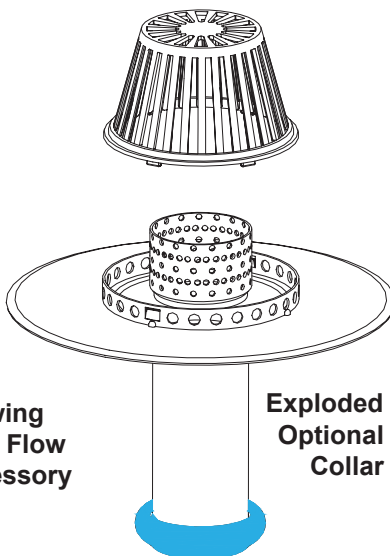
**RD-28SS-RR (Stainless Steel  
Roof Drain)**



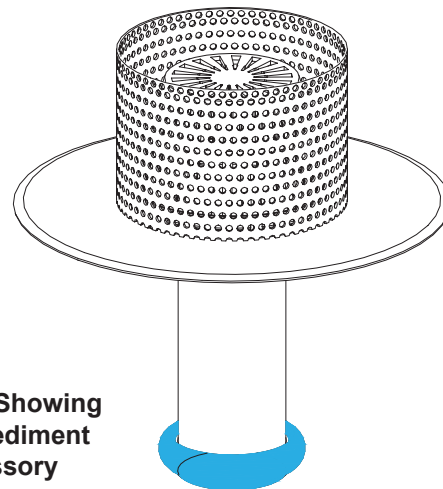
**Underside of  
Deck Flange showing  
Funnel Outlet**



**View Showing  
Optional T-7 Flow  
Control Accessory**



**Exploded View Showing  
Optional T-5 Sediment  
Collar Accessory**

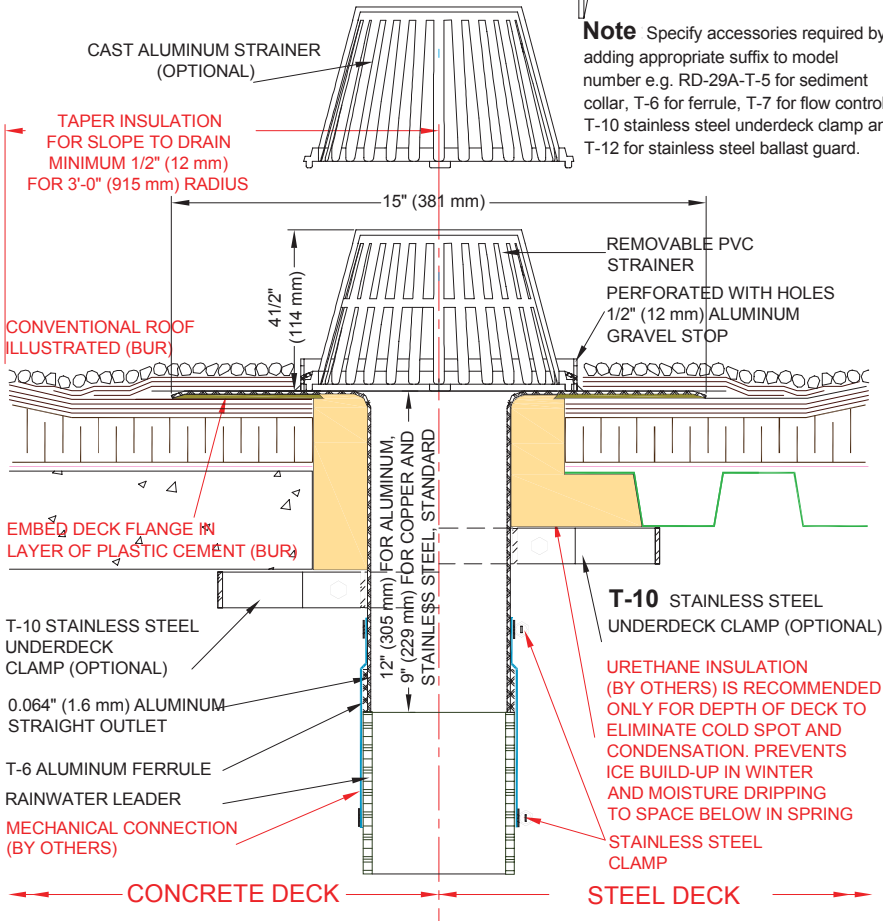
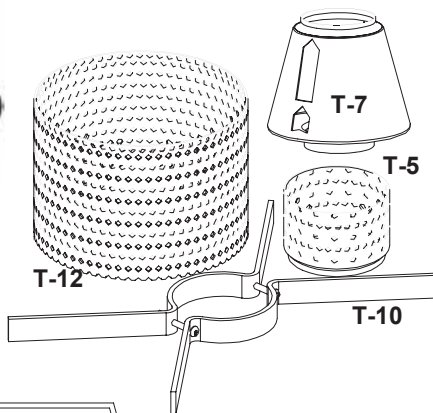


**View Showing Optional T-12 Ballast  
Guard Friction Fitted to Strainer**

**Material Specification for RD-28C-RR (Copper) and RD-28SS-RR (Stainless Steel) Roof Drains (RD-28A-RR Illustrated on page M-20)**  
**Note: In Short Form specification on front side of sheet, edit specification clause to reflect choice of copper (RD-28C-RR) or stainless steel (RD-28SS-RR) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-28A-RR	Cast Aluminum or PVC	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Stainless Steel
RD-28C-RR	Cast Aluminum or PVC	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Copper or Painted Aluminum	Stainless Steel
RD-28SS-RR	Cast Aluminum or PVC	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Aluminum	Painted Aluminum or Stainless Steel	Stainless Steel





**Note** Specify accessories required by adding appropriate suffix to model number e.g. RD-29A-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.

## ROOF SPECIALTIES RD-29A ECONOMY ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-29A Economy Roof Drain consists of a removable PVC strainer, aluminum deck flange, perforated aluminum gravel stop and straight seamless aluminum outlet fitted with a aluminum ferrule.

### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains.

### LEADER DIAMETERS:

Suitable for 2" (51 mm) to 6" (152 mm) leader sizes.

### OPTIONS:

Cast aluminum strainer. T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-29A drain for [2" to 6" (51 mm to 152 mm)] leader size, with: removable [PVC] [cast aluminum] strainer; perforated .064 (1.6 mm) seamless aluminum gravel stop; .064" (1.6 mm) deck flange and straight outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory]; [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

**RD-29A ECONOMY ROOF DRAIN (Aluminum, Straight Outlet)**  
**RD-29C ECONOMY ROOF DRAIN (Copper, Straight Outlet)**  
**RD-29SS ECONOMY ROOF DRAIN (Stainless Steel, Straight Outlet)**  
**Note: RD-29C (Copper) and RD-29SS (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-29A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

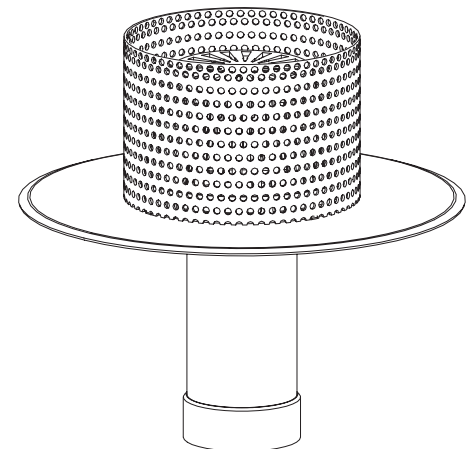
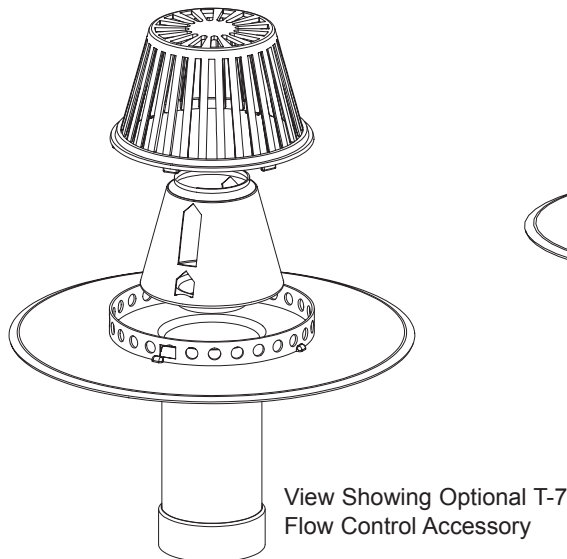
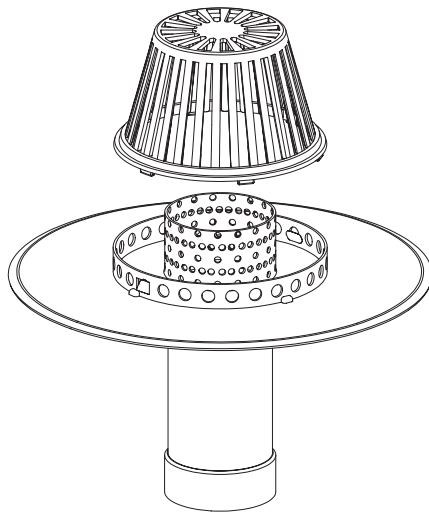
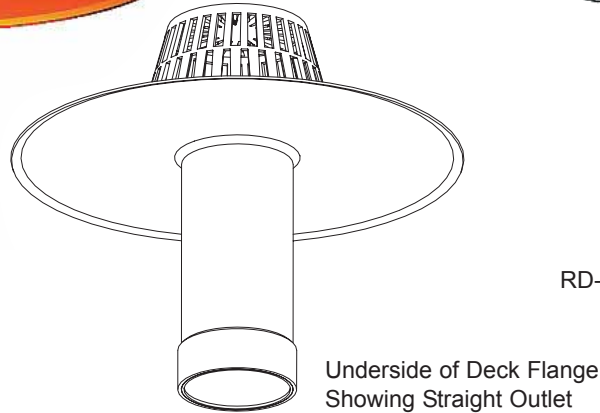
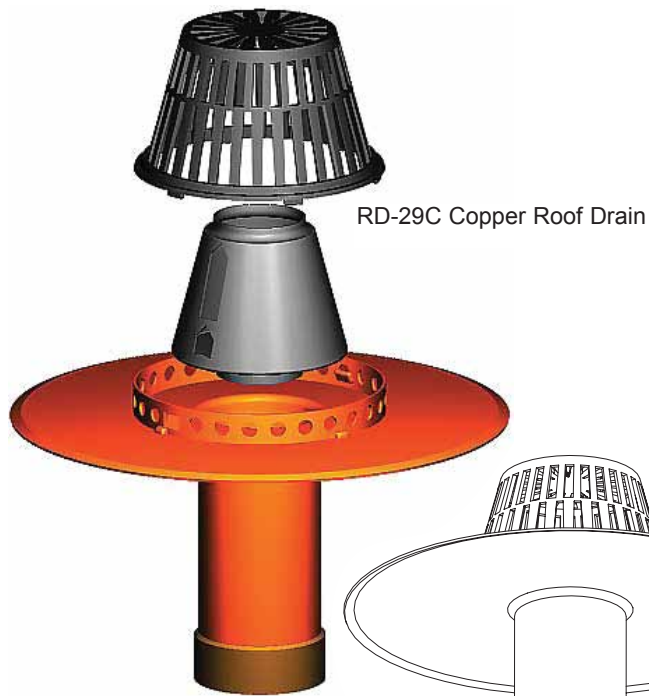
**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-2A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



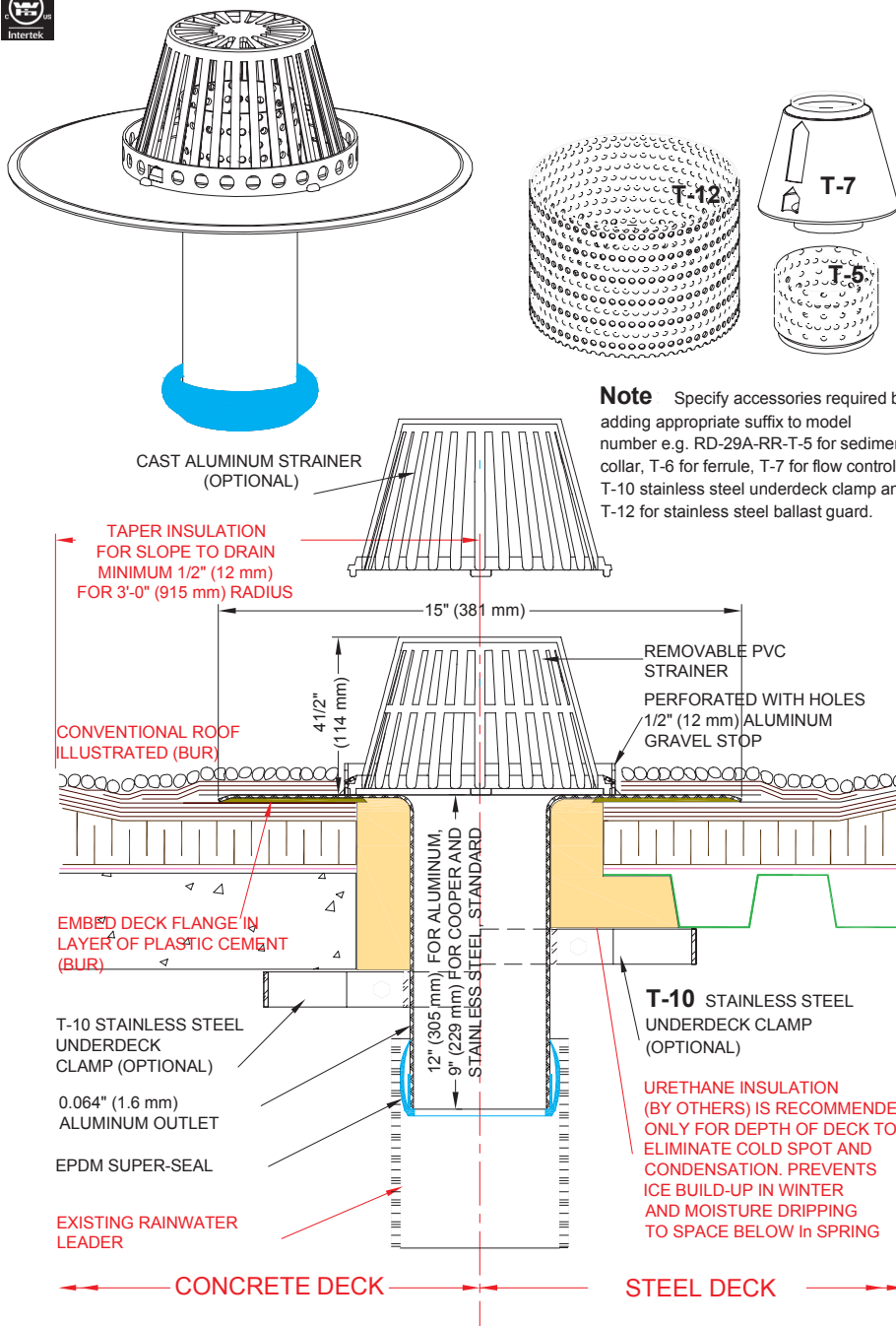




**Material Specification for RD-29C (Copper) and RD-29SS (Stainless Steel) Roof Drains (RD-29A Aluminum Illustrated on page M-21)**

**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RD-29C) or stainless steel (RD-29SS) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
RD-29A	PVC or Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-29C	PVC or Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.813mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
RD-29SS	PVC or Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: Type 304 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



## ROOF SPECIALTIES RD-29A-RR ECONOMY RETROFIT ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-29A-RR Economy Retrofit Roof Drain consists of a removable PVC strainer, aluminum deck flange, perforated aluminum gravel stop and straight seamless aluminum outlet fitted with a patented EPDM sealing ring (Thaler Super-Seal). The Super Seal provides a superior seal in the event or pipes become clogged (see Thaler Super-Seal Retrofit Drain Seal literature).

### PROMINENT FEATURES:

Provides best value for least cost when retrofitting existing drains; super seal ring permits faster, cheaper installation than other comparably priced drains while providing an extremely reliable seal.

### LEADER DIAMETERS:

1-3/4", 2-3/4", 3-3/4", 4-3/4", and 5-3/4" (44 mm, 70 mm, 95 mm, 121 mm and 146 mm)

### OPTIONS:

Cast aluminum strainer. T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose retrofit economy drain for flat roofs, employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-29A-RR drain for [2" to 6" (51 mm to 152 mm)] leader size, with: removable [PVC] [cast aluminum] strainer; perforated .064" (1.6 mm) seamless aluminum gravel stop; .064" (1.6 mm) deck flange and straight outlet fitted with Super-Seal EPDM sealing ring; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory]; [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

**RD-29A-RR ECONOMY ROOF DRAIN (Aluminum, Straight Outlet, Retrofit)**  
**RD-29C-RR ECONOMY ROOF DRAIN (Copper, Straight Outlet, Retrofit)**  
**RD-29SS-RR ECONOMY ROOF DRAIN (Stainless Steel, Straight Outlet, Retrofit)**  
**Note: RD-29C-RR (Copper) and RD-29SS-RR (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-29A-RR roof drain is installed by fitting the drain outlet into the rainwater leader, slowly rotating and pushing down into position, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-28A-RR-P; weld roofing to drain flange using PVC torch.

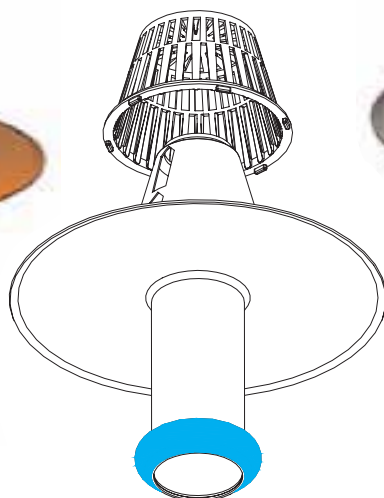
**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.





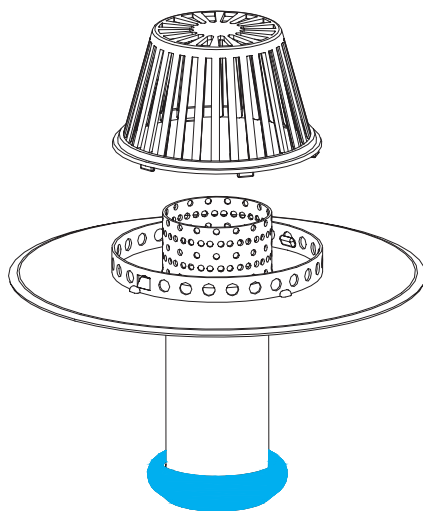
**RD-29C (Copper Roof Drain)**



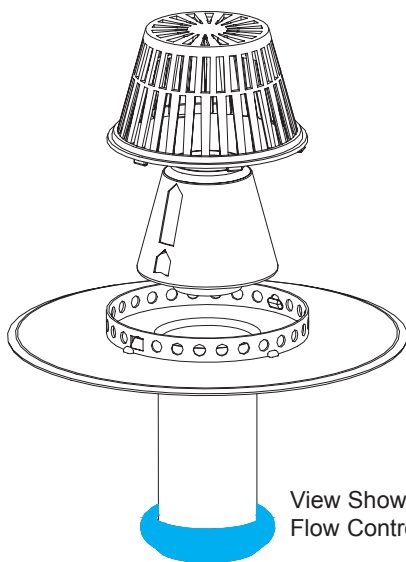
Underside of Deck Flange  
Showing Straight Outlet



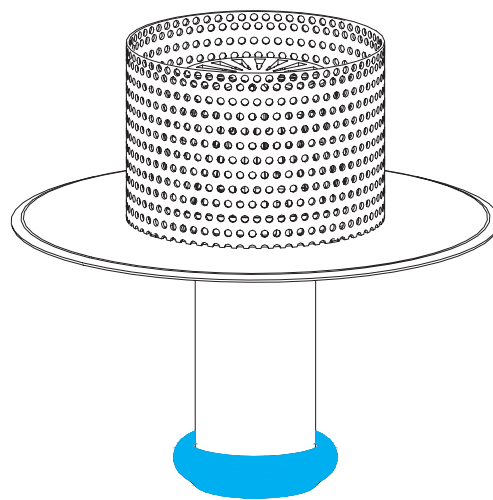
**RD-29SS (Stainless Steel Roof Drain)**



Exploded View Showing Optional T-5  
Sediment Collar Accessory



View Showing Optional T-7  
Flow Control Accessory



View Showing Ballast Guard  
Friction Fitted To Dome Strainer

**Material Specification for RD-29C-RR (Copper) and RD-29SS-RR (Stainless Steel) Roof Drains  
(RD-29A-RR Aluminum Illustrated on page M-22)**

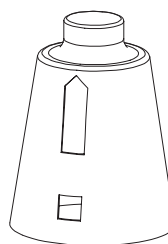
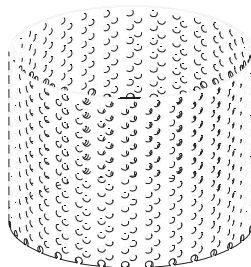
**Note:** In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RD-29C-RR) or stainless steel (RD-29SS-RR) roof drain in lieu of aluminum if desired.

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
<b>RD-29A-RR</b>	PVC or Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
<b>RD-29C-RR</b>	PVC or Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
<b>RD-29SS-RR</b>	PVC or Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: Type 304 L 0.12" (3 mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



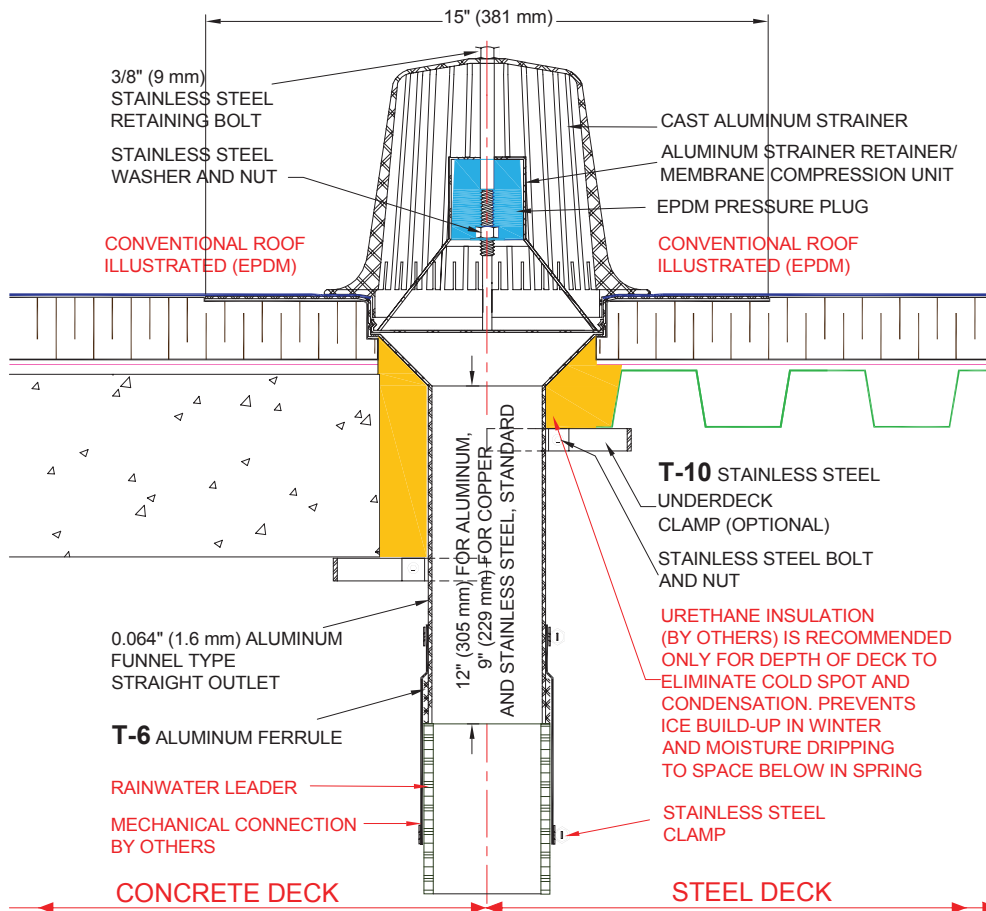


**T-12 STAINLESS  
STEEL BALLAST GUARD**



**T-7 ALUMINUM  
FLOW CONTROL ACCESSORY**

**Note:** Specify accessories required by adding appropriate suffix to model number e.g. RDX30-A-T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.



**RDX30-A ECONOMY ROOF DRAIN (Aluminum, Funnel Type Outlet)**  
**RDX30-C ECONOMY ROOF DRAIN (Copper, Funnel Type Outlet)**  
**RDX30-SS ECONOMY ROOF DRAIN (Stainless Steel, Funnel Type Outlet)**  
**Note: RDX30-C (Copper) and RDX30-SS (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

**INSTALLATION:**

"Installation Instructions" are provided with every Thaler product. Essentially, the Thaler RDX30-A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, screwing the strainer retainer/membrane compression unit into the funnel, carefully bolting down the strainer to clamp the membrane to the deck flange, and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RDX30-A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**ROOF SPECIALTIES**  
**RDX30-A ECONOMY**  
**ALUMINUM ROOF DRAIN**  
**(All Purpose, Funnel Outlet)**

**DESCRIPTION:**

The Thaler RDX30-A Economy Roof Drain consists of a vandalproof cast aluminum strainer, aluminum strainer retainer/membrane compression unit, deck flange with funnel type straight aluminum outlet fitted with an aluminum ferrule.

**PROMINENT FEATURES:**

Faster, more economical and easier installation (2 minutes) than competitively positioned drains (no special expertise required). Provides extremely reliable outlet/leader seal. Unique strainer retainer/membrane compression unit also provides best obtainable seal around deck flange by clamping membrane perfectly at a critical juncture. Strainer is rendered vandalproof via 3/8" (10 mm) dia. s.s. retaining bolt.

**LEADER DIAMETERS:**

Suitable for 2" (51 mm) to 6" (152 mm) leader sizes.

**OPTIONS:**

Copper or stainless steel model also available. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard for inverted roof applications. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

**RECOMMENDED USE:**

Primarily all purpose economy drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

**APPROVALS:**

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

**WARRANTY:**

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

**MAINTENANCE:**

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

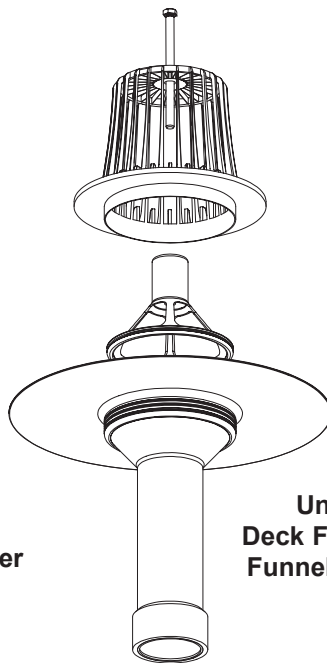
**SPECIFICATION (SHORT FORM):**

**Roof drains:** Thaler RDX30-A drain for [2" (51 mm)] to [6" (152 mm)] leader size, with: vandalproof cast aluminum strainer with integral gravel guard fins and 3/8" (10 mm) s.s. retaining bolt; strainer retainer/membrane compression unit; .064" (1.6 mm) spun aluminum compression unit; deck flange with funnel type straight outlet fitted with aluminum ferrule; [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

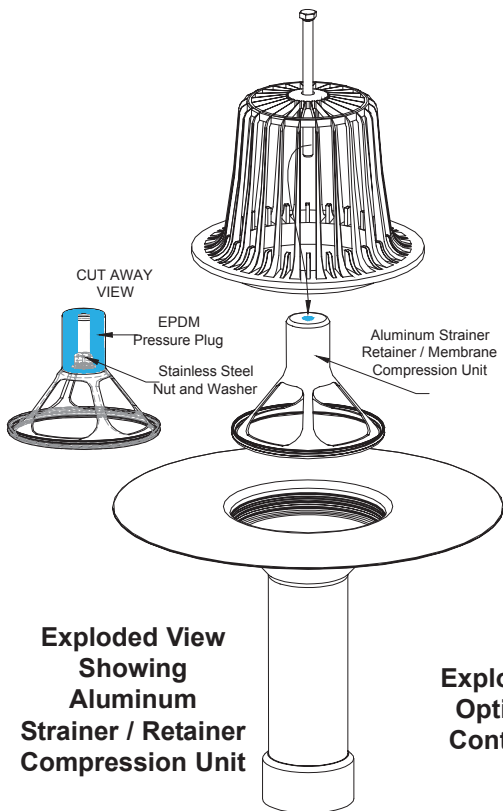




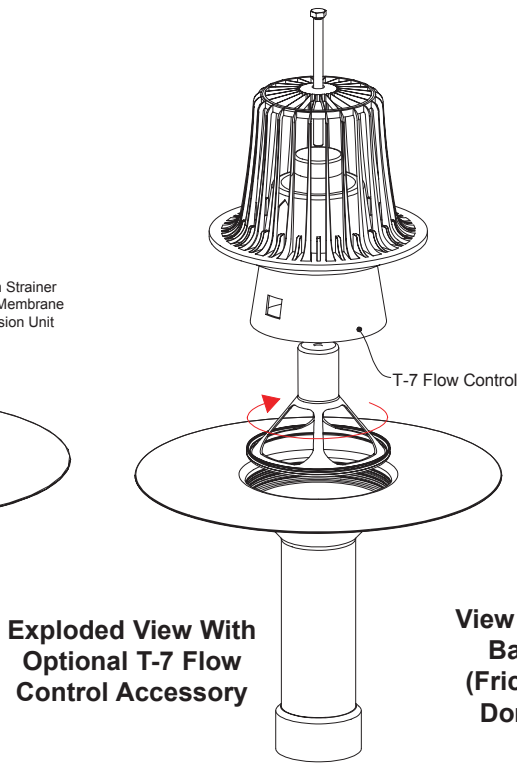
**RDX30-C Copper  
Roof Drain**



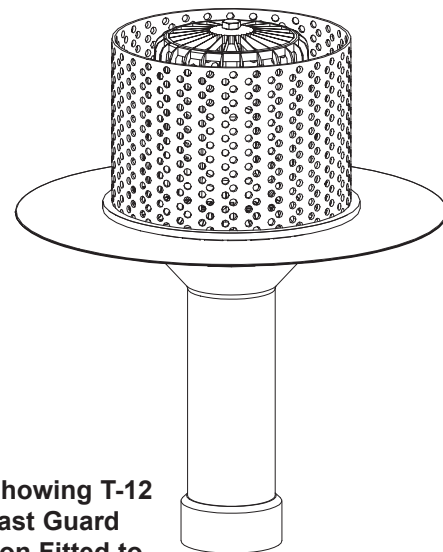
**Underside of  
Deck Flange showing  
Funnel Type Straight  
Outlet**



**Exploded View  
Showing  
Aluminum  
Strainer / Retainer  
Compression Unit**



**Exploded View With  
Optional T-7 Flow  
Control Accessory**



**View Showing T-12  
Ballast Guard  
(Friction Fitted to  
Dome Strainer)**

**Material Specification for RDX30-C (Copper) and RDX30-SS (Stainless Steel) Roof Drains  
(RDX30-A Aluminum Illustrated on page M-23)**

**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RDX30-C) or stainless steel (RDX30-SS) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	Membrane Compression Unit	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
RDX30-A	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
RDX30-C	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
RDX30-SS	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: Type 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



## ROOF SPECIALTIES RDX30-A-RR ECONOMY ALUMINUM SUPER-SEAL RETROFIT ROOF DRAIN (All Purpose, Funnel Outlet)

### DESCRIPTION:

The Thaler RDX30-A-RR Super-Seal Roof Drain consists of a vandalproof cast aluminum strainer, aluminum strainer retainer/membrane compression unit, deck flange with funnel type straight aluminum outlet fitted with a patented EPDM sealing ring (Thaler Super-Seal). The Super-Seal provides a superior seal in the event drains or pipes become clogged (see Thaler Super-Seal Retrofit Drain Seal literature).

### PROMINENT FEATURES:

Faster, more economical and easier installation (2 minutes) than competitively positioned drains (no special expertise required). Provides extremely reliable outlet/leader seal. Unique strainer retainer/membrane compression unit also provides best obtainable seal around deck flange by clamping membrane perfectly at a critical juncture (no lateral leakage into roof membrane). Strainer is rendered vandalproof via 3/8" (10 mm) dia. s.s. retaining bolt.

### LEADER DIAMETERS:

Suitable for 1-3/4", 2", 2-3/4", 3", 3-3/4", 4", 4-3/4", 5-3/4" and 6" (44 mm, 51 mm, 70 mm, 76 mm, 95 mm, 102 mm, 121 mm, 146 mm and 152 mm) (152 leader sizes).

### OPTIONS:

Copper or stainless steel model also available. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard for inverted roof applications. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

Primarily all purpose retrofit economy drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

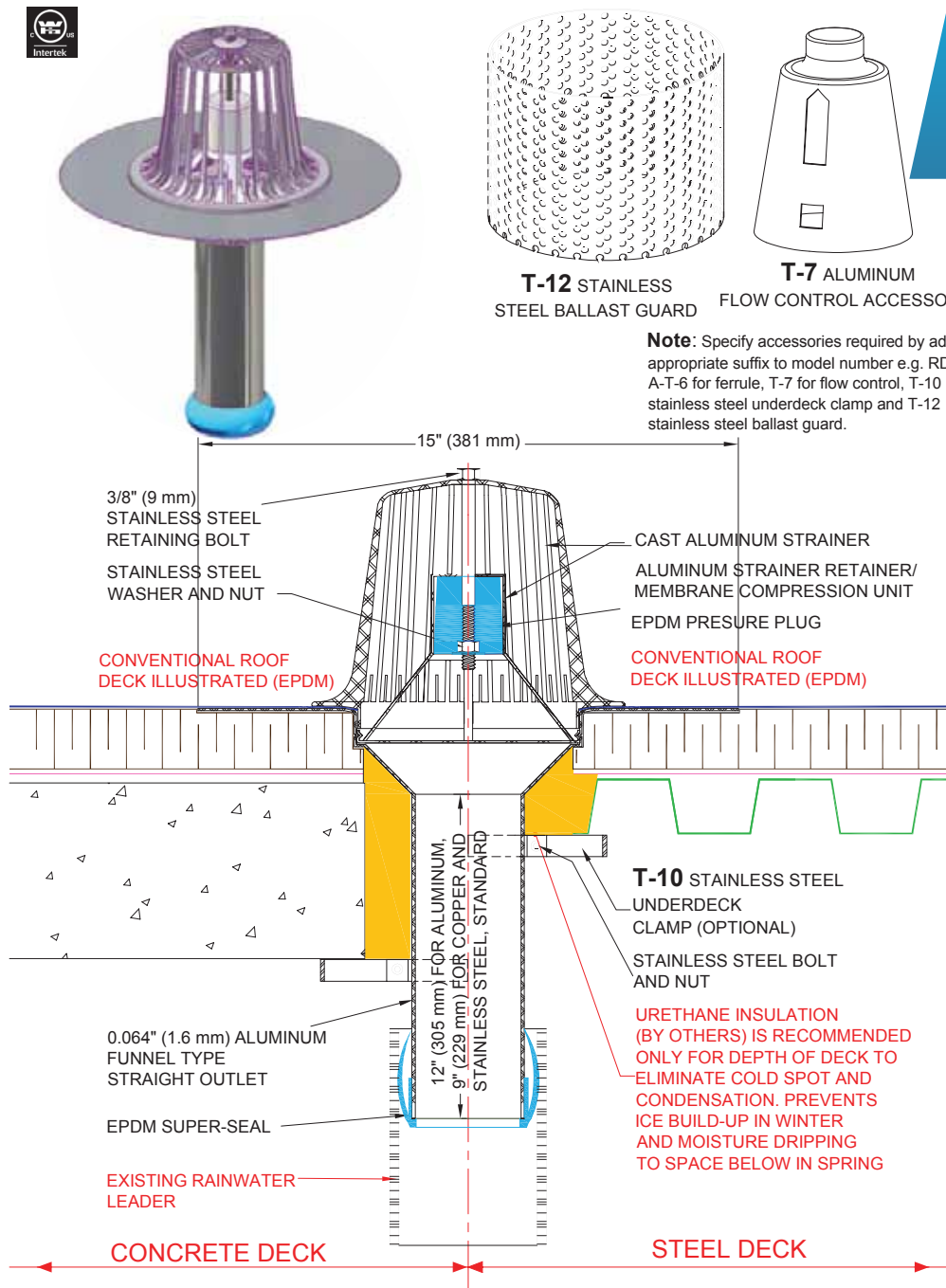
20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RDX30-A-RR drain for [1-3/4" (44 mm)] to [6" (152 mm)] leader size, with: vandalproof cast aluminum strainer with integral gravel guard fins and 3/8" (10 mm) s.s. retaining bolt; strainer retainer/membrane compression unit; .064" (2 mm) spun aluminum compression unit; deck flange with funnel type straight outlet fitted with Super-Seal EPDM sealing ring; [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.



**RDX30-A-RR RETROFIT ROOF DRAIN (Aluminum, Funnel Type Outlet)**  
**RDX30-C-RR RETROFIT ROOF DRAIN (Copper, Funnel Type Outlet)**  
**RDX30-SS-RR RETROFIT ROOF DRAIN (Stainless Steel, Funnel Type Outlet)**  
**Note: RDX30-C-RR (Copper) and RDX30-SS-RR (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the Thaler RDX30-A-RR roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, slowly pushing down into position, screwing the strainer retainer/membrane compression unit into the funnel, carefully bolting down the strainer to clamp the membrane to the deck flange, and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

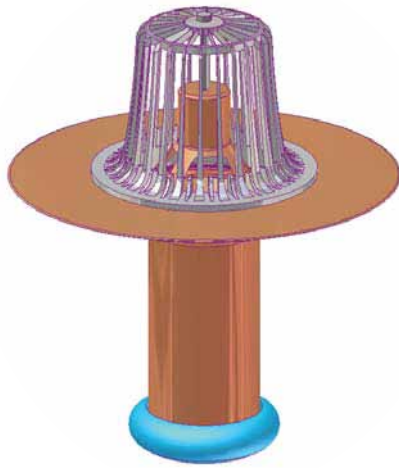
**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RDX30-A-RR-P; weld roofing to drain flange using PVC torch.

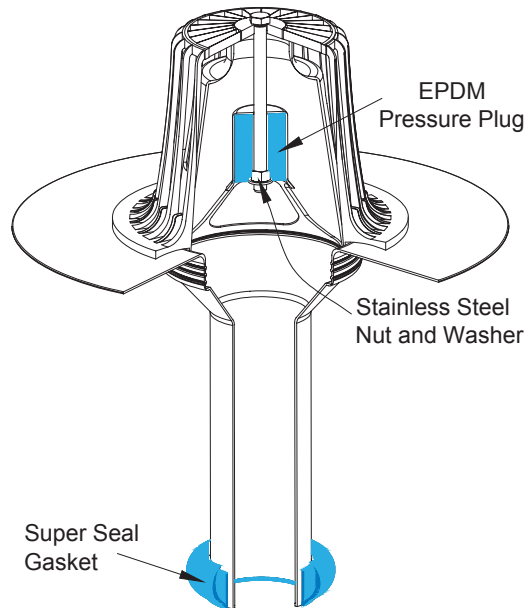
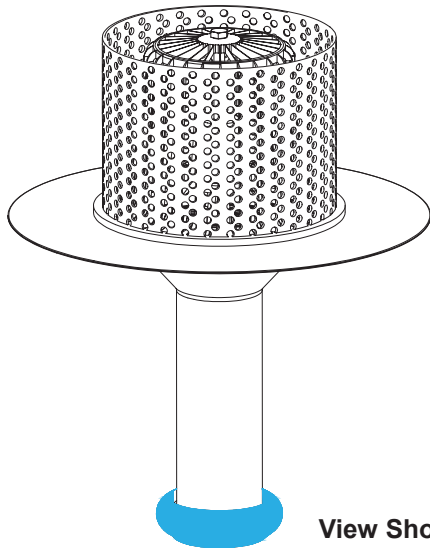
**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**RDX30-SS-RR**  
**Stainless Steel Roof Drain**  
**Showing Aluminum strainer**  
**Retainer/ Compression Unit**  
**Screwed to Drain Body**



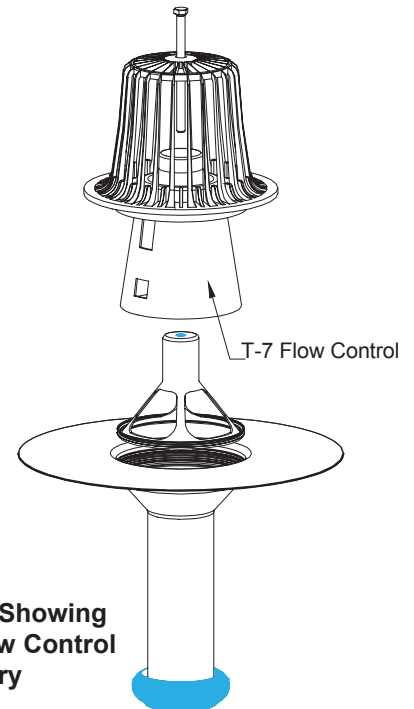
**RDX30-C-RR Copper**  
**Roof Drain**



**Cut-Away View Showing**  
**Aluminum**  
**Strainer Retainer/Membrane**  
**Compression Unit**

**View Showing T-12**  
**Ballast Guard**  
**Friction Fitted to**  
**Dome Strainer**

**Exploded View Showing**  
**Optional T-7 Flow Control**  
**Accessory**

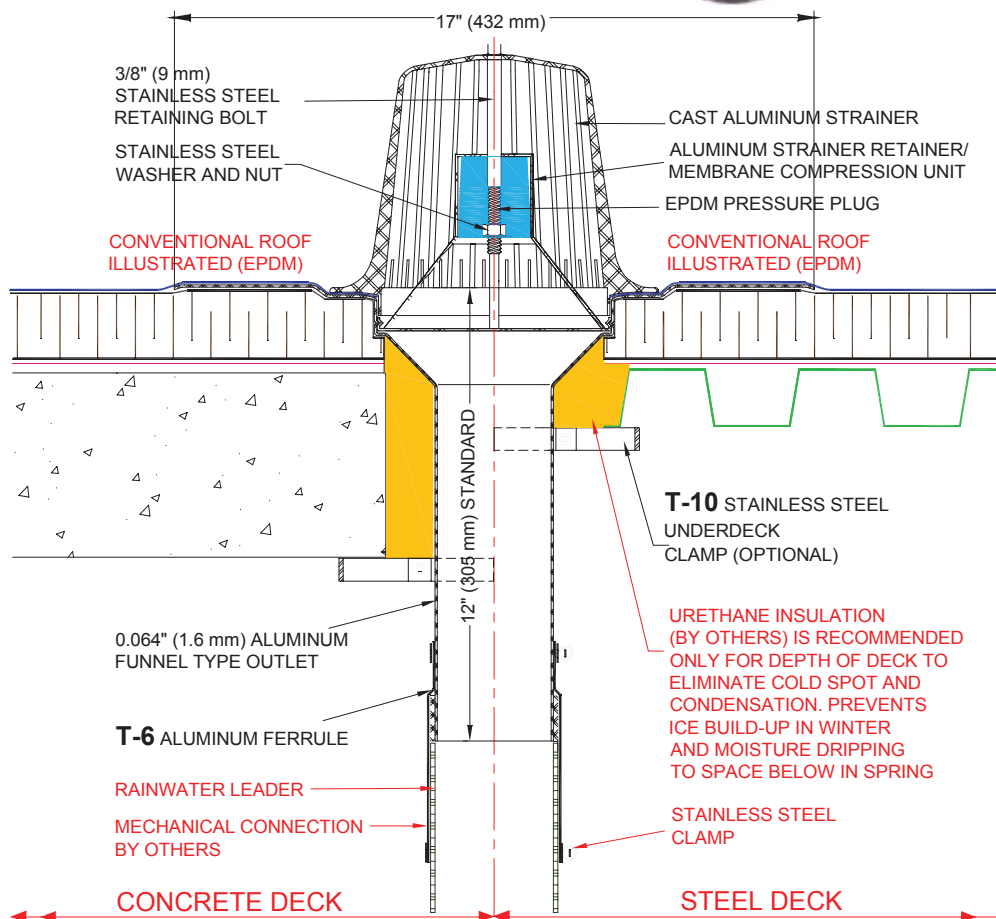


**Material Specification for RDX30-C-RR (Copper) and RDX30-SS-RR (Stainless Steel) Roof Drains**  
**(RDX30-A-RR Aluminum Illustrated on page M-24)**

**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper**  
**(RDX30-C-RR) or stainless steel (RX30-SS-RR) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	Membrane Compression Unit	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
RDX30-A-RR	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
RDX30-C-RR	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
RDX30-SS-RR	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: Type 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel





## ROOF SPECIALTIES RDX300-A ECONOMY ALUMINUM ROOF DRAIN (Recessed body, Funnel Outlet)

### DESCRIPTION:

The Thaler RDX300-A Economy Roof Drain consists of a vandalproof cast aluminum strainer, aluminum recessed strainer retainer/membrane compression unit, deck flange with funnel type straight aluminum outlet fitted with a aluminum ferrule.

### PROMINENT FEATURES:

Faster, more economical and easier installation (2 minutes) than competitively positioned drains (no special expertise required). Provides extremely reliable outlet/leader seal. Unique strainer retainer/membrane compression unit also provides best obtainable seal around deck flange by clamping membrane perfectly at a critical juncture. Strainer is rendered vandalproof via 3/8" (10 mm) dia. s.s. retaining bolt.

### LEADER DIAMETERS:

Suitable for 2" (51 mm) to 6" (152 mm) leader sizes.

### OPTIONS:

Copper or stainless steel model also available. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard for inverted roof applications. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

Primarily all purpose economy drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RDX30-A drain for [2" (51 mm)] to [6" (152 mm)] leader size, with: vandalproof cast aluminum strainer with integral gravel guard fins and 3/8" (10 mm) s.s. retaining bolt; strainer retainer/membrane compression unit; .064" (1.6 mm) spun aluminum compression unit; deck flange with funnel type straight outlet fitted with aluminum ferrule; [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

**RDX300-A ECONOMY ROOF DRAIN (Aluminum, Funnel Type Outlet)**  
**RDX300-C ECONOMY ROOF DRAIN (Copper, Funnel Type Outlet)**  
**RDX300-SS ECONOMY ROOF DRAIN (Stainless Steel, Funnel Type Outlet)**  
**Note: RDX300-C (Copper) and RDX300-SS (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the Thaler RDX300-A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, screwing the strainer retainer/membrane compression unit into the funnel, carefully bolting down the strainer to clamp the membrane to the deck flange, and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

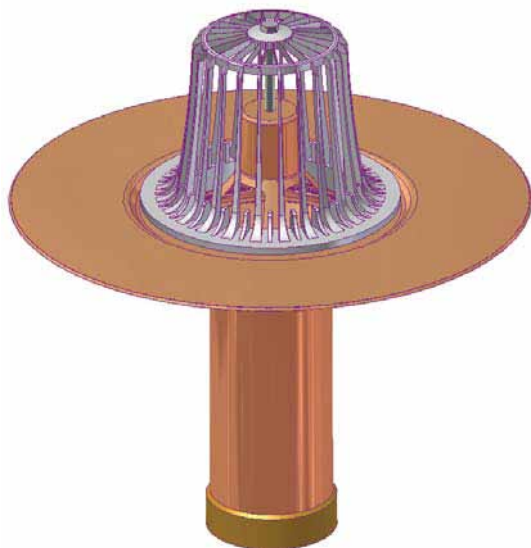
**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RDX300-A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



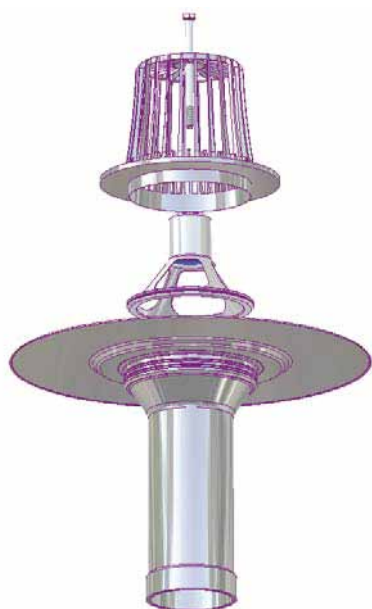




**RDX300-C Cooper Roof Drain**



**Exploded View Aluminum Strainer / Retainer Compression Unit**



**Underside of Deck Flange Showing Funnel Type Outlet**



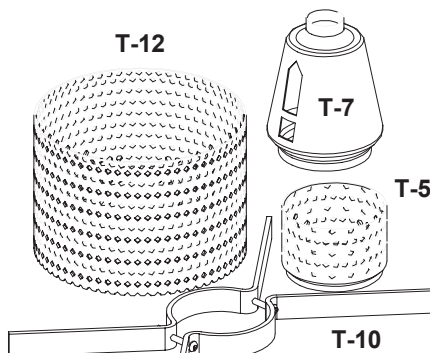
**Optional T-7 Flow Control Accessory**

**T-12 Ballast Guard**

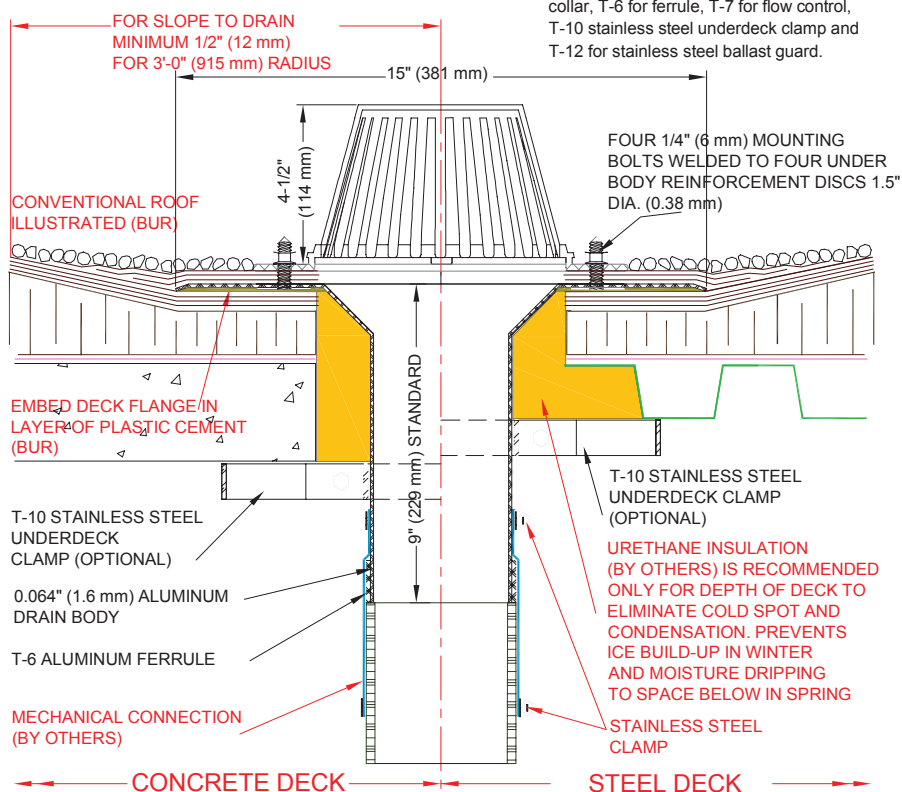
**Material Specification for RDX300-C (Copper) and RDX300-SS (Stainless Steel) Roof Drains (RDX300-A Aluminum Illustrated on page M-25)**

**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RDX300-C) or stainless steel (RX300-SS) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	Membrane Compression Unit	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
<b>RDX300-A</b>	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
<b>RDX300-C</b>	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
<b>RDX300- SS</b>	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: Type 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**Note** Specify accessories required by adding appropriate suffix to model number e.g. RD-38A-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.



**RD-38A ECONOMY ROOF DRAIN (Aluminum, Funnel Outlet)**  
**RD-38C ECONOMY ROOF DRAIN (Copper, Funnel Outlet)**  
**RD-38SS ECONOMY ROOF DRAIN (Stainless Steel, Funnel Outlet)**  
**Note: RD-38C (Copper) and RD-38SS (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

**INSTALLATION:**

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-38A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-38A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**ROOF SPECIALTIES**  
**RD-38A ECONOMY**  
**ALUMINUM ROOF DRAIN**  
**(All Purpose, Funnel Outlet)**

**DESCRIPTION:**

The Thaler RD-38A Economy Roof Drain consists of a cast aluminum strainer, aluminum deck flange, and funnel type straight seamless aluminum outlet fitted with an aluminum ferrule.

**PROMINENT FEATURES:**

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains.

**LEADER DIAMETERS:**

Suitable for 2" (51 mm) to 6" (152 mm) leader sizes.

**OPTIONS:**

T-5 aluminum collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for BUR and ModBit roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

**RECOMMENDED USE:**

All purpose drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

**APPROVALS:**

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

**WARRANTY:**

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

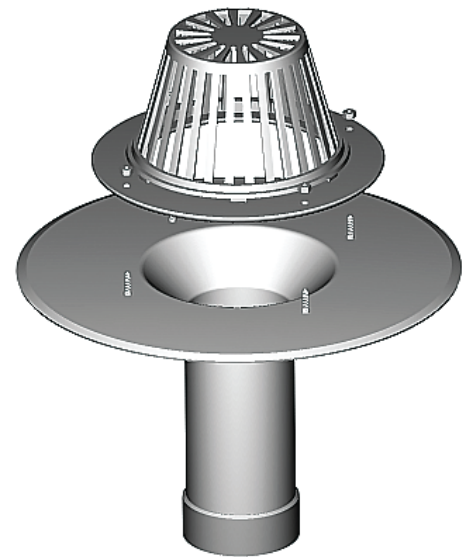
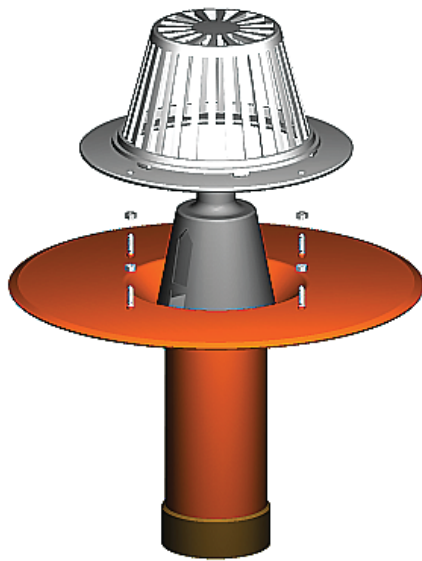
**MAINTENANCE:**

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

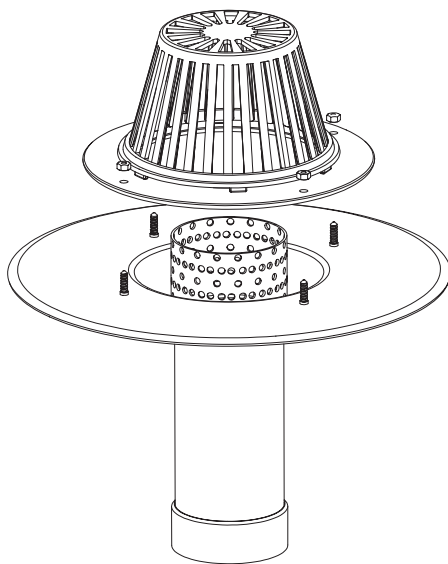
**SPECIFICATION (SHORT FORM):**

**Roof drains:** Thaler RD-38A drain for [2" to 6" (51mm to 152 mm)] leader size, with: removable cast aluminum strainer with clamping ring; .064 (1.6 mm) deck flange and funnel outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387- 7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

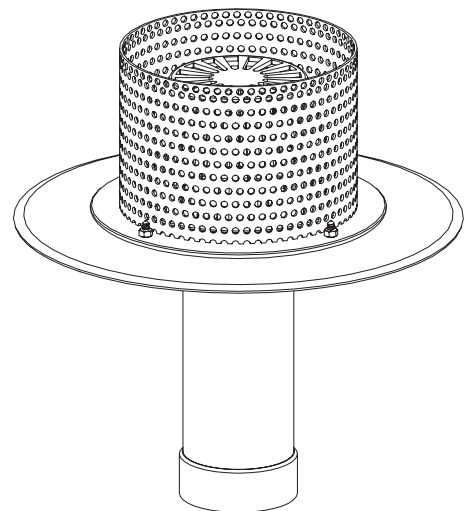
**RD-38C Copper Roof Drain  
(T-7 Flow Control Accessory  
Shown Friction Fitted to Drain  
Body)**



**Exploded View of RD-38SS  
Stainless Steel Roof Drain**



**Exploded View Showing Optional  
T-5 Sediment Collar Accessory**

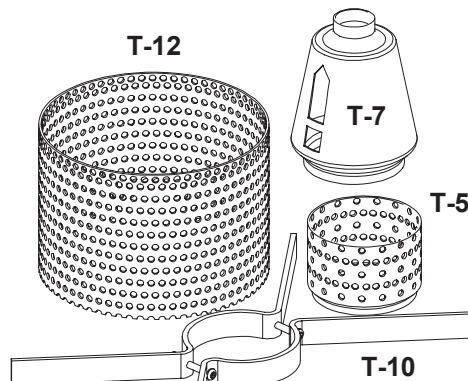


**View Showing Ballast Guard  
Friction Fitted to Dome Strainer**

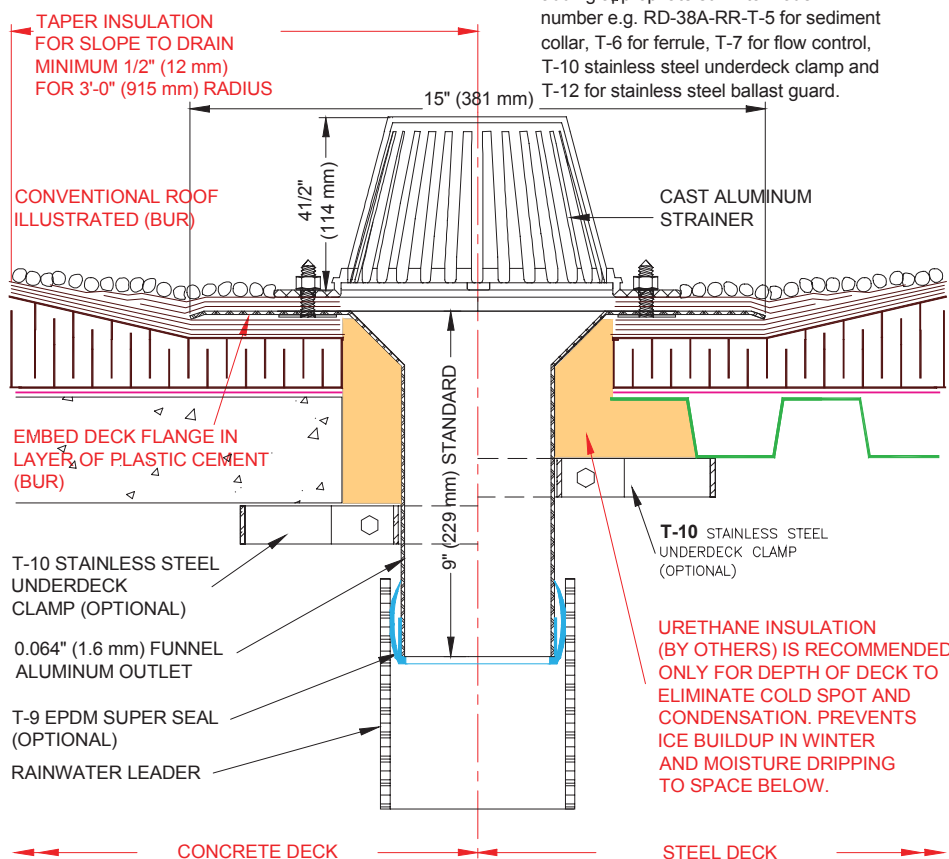
**Material Specification for RD-38C (Copper) and RD-38SS (Stainless Steel) Roof Drains (RD-38A Aluminum Illustrated on page M-26)**

**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RD-38C) or stainless steel (RD-38SS) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
RD-38A	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-38C	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
RD-38SS	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8 mm) pipe: 304 L 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**Note:** Specify accessories required by adding appropriate suffix to model number e.g. RD-38A-RR-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.



**RD-38A-RR ECONOMY ROOF DRAIN (Aluminum Funnel Outlet)**  
**RD-38C-RR ECONOMY ROOF DRAIN (Copper Funnel Outlet)**  
**RD-38SS-RR ECONOMY ROOF DRAIN (Stainless Steel Funnel Outlet)**  
**Note: RD-38C-RR (Copper) and RD-38SS-RR (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

**INSTALLATION:**

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-38A-RR roof drain is installed by fitting the drain outlet into the rainwater leader, by slowly rotating and pushing down into position, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-38A-RR-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**ROOF SPECIALTIES**

**RD-38A-RR  
ECONOMY RETROFIT  
ALUMINUM ROOF DRAIN  
(All Purpose, Funnel Outlet)**

**DESCRIPTION:**

The Thaler RD-38A-RR Economy Roof Drain consists of a removable cast aluminum strainer, deck flange, and funnel type straight seamless aluminum outlet fitted with a patented EPDM sealing ring (optional Thaler Super-Seal). The Super-Seal provides a superior seal in the event drains or pipes become clogged.

**PROMINENT FEATURES:**

Provides best value for least cost when retrofitting existing drains; Super-Seal ring permits faster, more economical installation than other comparably priced drains while providing an extremely reliable seal.

**LEADER DIAMETERS:**

Suitable for 1-3/4", 2-3/4", 3-3/4", 4-3/4", and 5-3/4" (44 mm, 70 mm, 95 mm, 121 mm and 146 mm) leader sizes.

**OPTIONS:**

Without Cast aluminum strainer. T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

**RECOMMENDED USE:**

All purpose retrofit economy drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

**APPROVALS:**

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

**WARRANTY:**

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

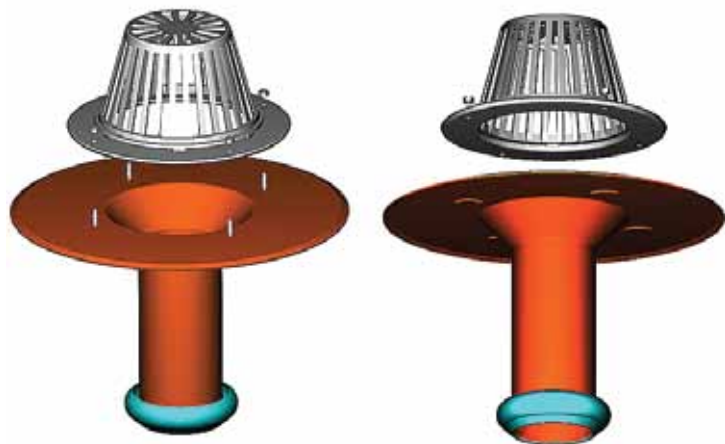
**MAINTENANCE:**

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

**SPECIFICATION (SHORT FORM):**

**Roof drains:** Thaler RD-38A-RR drain for [1-3/4" (44 mm)] [2-3/4" (70 mm)] [3-3/4" (95 mm)] [4-3/4" (121 mm)] [5-3/4" (146 mm)] leader size, with: removable cast aluminum strainer with clamping ring; .064 (1.6 mm) deck flange and funnel outlet fitted with a Super-Seal EPDM sealing ring; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory]; [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard]; [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

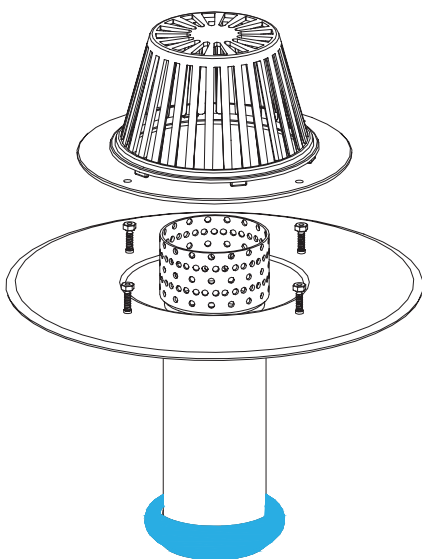




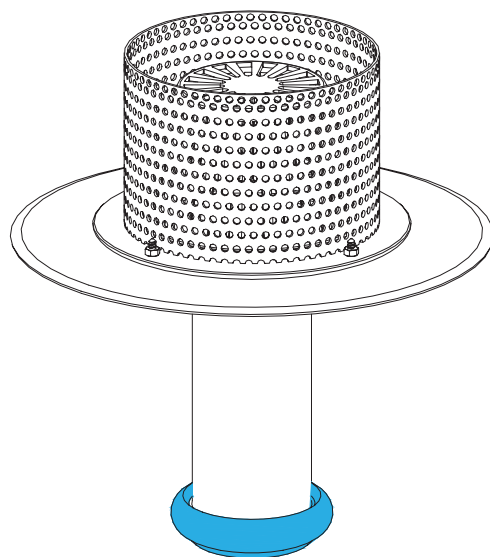
**Underside of Deck Flange  
Showing Funnel Outlet**



**View Showing Optional T-7 Flow  
Control Accessory**



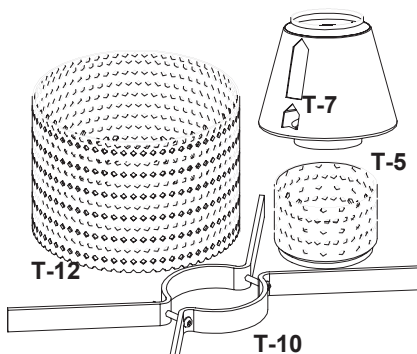
**Exploded View Showing Optional  
T-5 Sediment Collar Accessory**



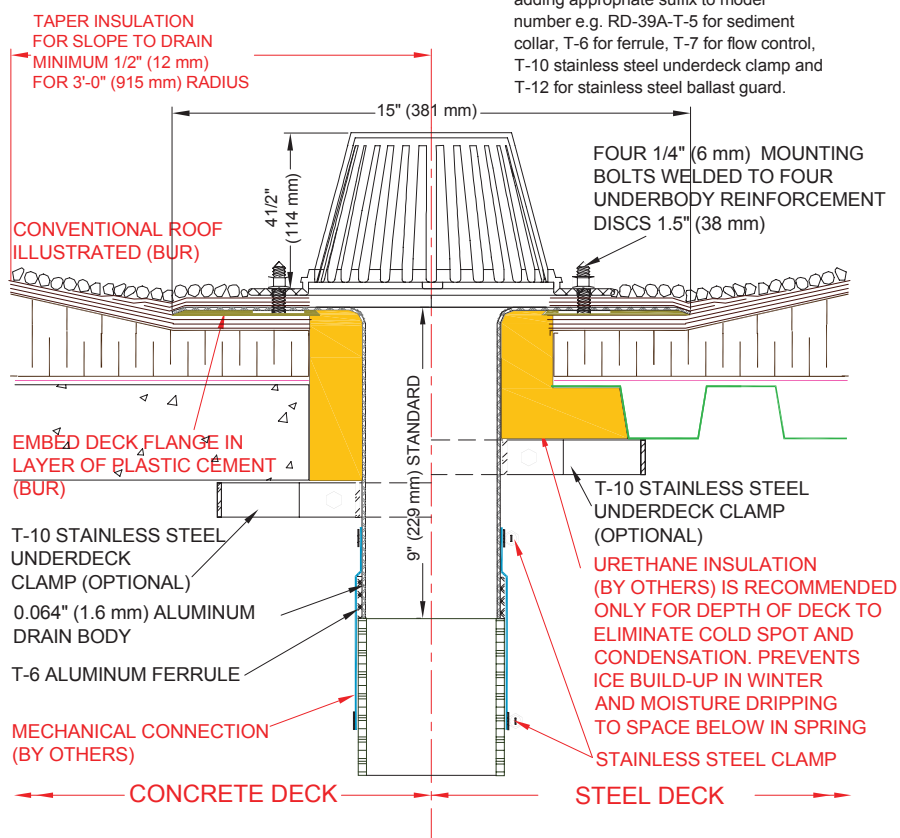
**View Showing Optional T-12 Ballast  
Guard Friction Fitted to Dome Strainer**

**Material Specification for RD-38C-RR (Copper) and RD-38SS-RR (Stainless Steel) Roof Drains (RD-38A-RR Illustrated on page M-27)**  
**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RD-38C-RR) or stainless steel (RD-38SS-RR) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-7 Flow Control	T-12 Ballast Guard
RD-38A-RR	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Stainless Steel
RD-38C-RR	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Copper or Painted Aluminum	Stainless Steel
RD-38SS-RR	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: 304 L 0.12" (3mm)	Aluminum	Painted Aluminum or Stainless Steel	Stainless Steel



**Note** Specify accessories required by adding appropriate suffix to model number e.g. RD-39A-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.



**RD-39A ECONOMY ROOF DRAIN (Aluminum, Straight Outlet)**  
**RD-39C ECONOMY ROOF DRAIN (Copper, Straight Outlet)**  
**RD-39SS ECONOMY ROOF DRAIN (Stainless Steel, Straight Outlet)**  
**Note: RD-39C (Copper) and RD-39SS (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

#### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-39A roof drain is installed by fitting and connecting the drain outlet into the rainwater leader, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-39A-P; weld roofing to drain flange using PVC torch.

**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

## ROOF SPECIALTIES RD-39A ECONOMY ALUMINUM ROOF DRAIN (All Purpose, Straight Outlet)

#### DESCRIPTION:

The Thaler RD-39A Economy Roof Drain consists of a cast aluminum strainer, aluminum deck flange, and straight seamless aluminum outlet fitted with a aluminum ferrule.

#### PROMINENT FEATURES:

Removable dome strainer eliminates improper strainer installation or lost strainers that can result in plugged drains.

#### LEADER DIAMETERS:

Suitable for 2" (51 mm) to 6" (152 mm) leader sizes.

#### OPTIONS:

T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for BUR and ModBit roof membrane.

#### RECOMMENDED USE:

All purpose drain for flat roofs employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

#### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

#### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

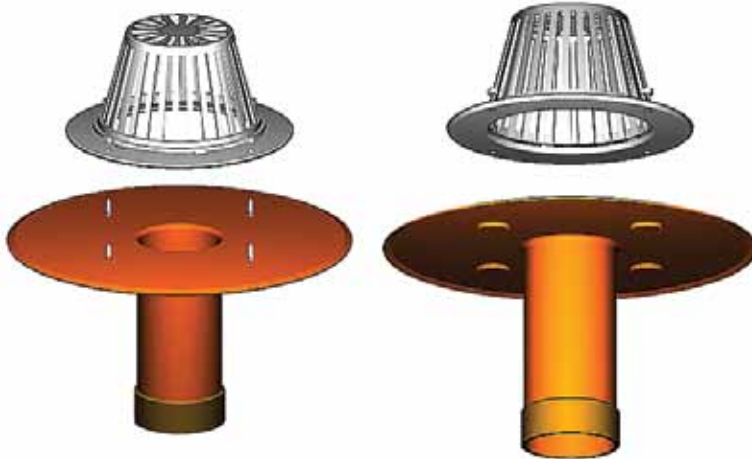
#### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

#### SPECIFICATION (SHORT FORM):

Roof drains: Thaler RD-39A drain for [2" to 6" (51 mm to 152 mm)] leader size, with: removable cast aluminum strainer and clamping ring; .064" (1.6 mm) deck flange and straight outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

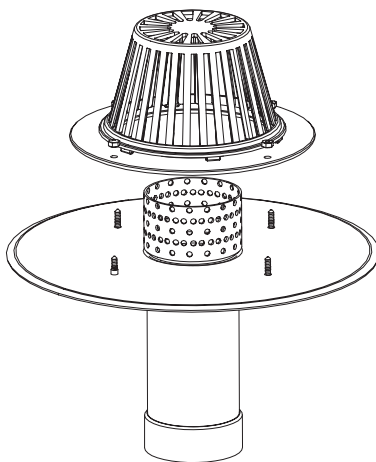
## RD-39C Copper Roof Drain



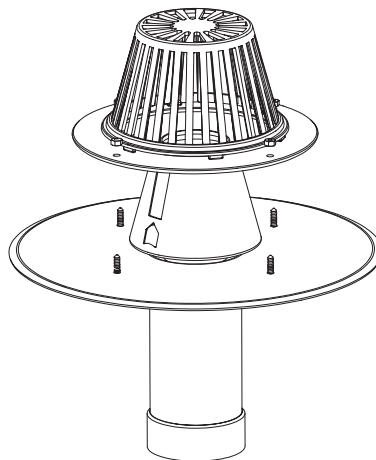
Underside of deck Flange  
Showing Straight Outlet



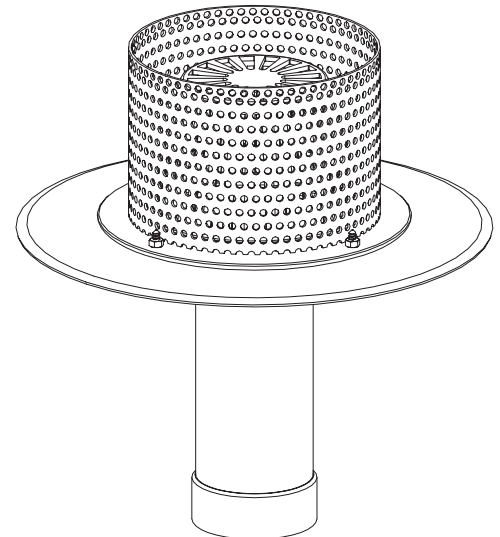
RD-39SS Stainless Steel Roof  
Drain



Exploded View Showing  
Optional T-5 Sediment Collar  
Accessory



View Showing Optional T-7  
Flow Control Accessory

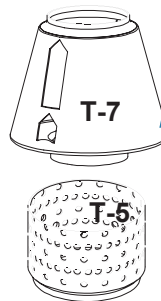
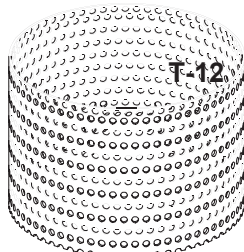


View Showing Ballast Guard  
Friction Fitted to Dome Strainer

**Material Specification for RD-39C (Copper) and RD-39SS (Stainless Steel) Roof Drains (RD-39A Aluminum Illustrated on page M-28)**

**Note: In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RD-39C) or stainless steel (RD-39SS) roof drain in lieu of aluminum if desired.**

Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
RD-39A	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-39C	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
RD-39SS	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: Type 304 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**Note** Specify accessories required by adding appropriate suffix to model number e.g. RD-39A-RR-T-5 for sediment collar, T-6 for ferrule, T-7 for flow control, T-10 stainless steel underdeck clamp and T-12 for stainless steel ballast guard.

## ROOF SPECIALTIES RD-39A-RR ECONOMY ALUMINUM RETROFIT ROOF DRAIN (All Purpose, Straight Outlet)

### DESCRIPTION:

The Thaler RD-39A-RR Economy Retrofit Roof Drain consists of a removable cast aluminum strainer, aluminum deck flange, and straight seamless aluminum outlet fitted with a patented EPDM sealing ring (Thaler Super-Seal). The Super Seal provides a superior seal in the event or pipes become clogged (see Thaler Super-Seal Retrofit Drain Seal literature).

### PROMINENT FEATURES:

Provides best value for least cost when retrofitting existing drains; super seal ring permits faster, cheaper installation than other comparably priced drains while providing an extremely reliable seal.

### LEADER DIAMETERS:

1-3/4", 2-3/4", 3-3/4", 4-3/4", and 5-3/4" (44 mm, 70 mm, 95 mm, 121 mm and 146 mm)

### OPTIONS:

T-5 aluminum sediment collar. T-7 aluminum Flow Control accessory (weir) for utilizing roof as temporary reservoir during excessive rainfall. T-10 stainless steel underdeck clamp. T-12 stainless steel ballast guard. See Thaler Roof Drain Options literature. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose retrofit economy drain for flat roofs, employing conventional roof membrane applications (without ballast guard) or inverted roof membrane applications (with ballast guard). Suitable for PVC, cast iron, steel, copper, or other type leaders.

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed from both around and inside the strainer.

### SPECIFICATION (SHORT FORM):

**Roof drains:** Thaler RD-39A-RR drain for [2" to 6" (51 mm to 152 mm)] leader size, with: removable cast aluminum strainer and clamping ring; .064" (1.6 mm) deck flange and straight outlet fitted with Super-Seal EPDM sealing ring; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

TAPER INSULATION  
FOR SLOPE TO DRAIN  
MINIMUM 1/2" (12 mm)  
FOR 3'-0" (915 mm) RADIUS

CAST ALUMINUM  
STRAINER

CONVENTIONAL ROOF  
ILLUSTRATED (BUR)

EMBED DECK FLANGE IN  
LAYER OF PLASTIC CEMENT (BUR)

T-10 STAINLESS STEEL  
UNDERDECK  
CLAMP (OPTIONAL)

0.064" (1.6 mm)  
ALUMINUM OUTLET

EPDM SUPER-SEAL

EXISTING RAINWATER  
LEADER

CONCRETE DECK

STEEL DECK

15" (381 mm)  
4 1/2" (114 mm)  
FOUR 1/4" (6 mm) MOUNTING  
BOLTS WELDED TO FOUR  
UNDERBODY REINFORCEMENT  
DISCS 1.5" (38 mm)

T-10 STAINLESS STEEL  
UNDERDECK CLAMP  
(OPTIONAL)

URETHANE INSULATION  
(BY OTHERS) IS RECOMMENDED  
ONLY FOR DEPTH OF DECK TO  
ELIMINATE COLD SPOT AND  
CONDENSATION. PREVENTS  
ICE BUILD-UP IN WINTER  
AND MOISTURE DRIPPING  
TO SPACE BELOW IN SPRING

**RD-39A-RR ECONOMY ROOF DRAIN (Aluminum, Straight Outlet, Retrofit)**  
**RD-39C-RR ECONOMY ROOF DRAIN (Copper, Straight Outlet, Retrofit)**  
**RD-39SS-RR ECONOMY ROOF DRAIN (Stainless Steel, Straight Outlet, Retrofit)**  
**Note: RD-39C-RR (Copper) and RD-39SS-RR (Stainless Steel) similar.**  
**See reverse side of page for material changes.**

### INSTALLATION:

"Installation Instructions" are provided with every Thaler product. Essentially, the RD-39A-RR roof drain is installed by fitting the drain outlet into the rainwater leader, slowly rotating and pushing down into position, installing the dome strainer (including any optional accessories), and as follows:

**BUR:** Set drain flange over membrane in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit:** Torch membrane until bitumen is fluid and set drain flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer.

**Single Ply:** Set drain flange in layer of membrane adhesive before applying membrane over flange. Note: for PVC membrane, specify PVC coated drain flange by adding suffix P to end of model number, e.g. RD-38A-RR-P; weld roofing to drain flange using PVC torch.

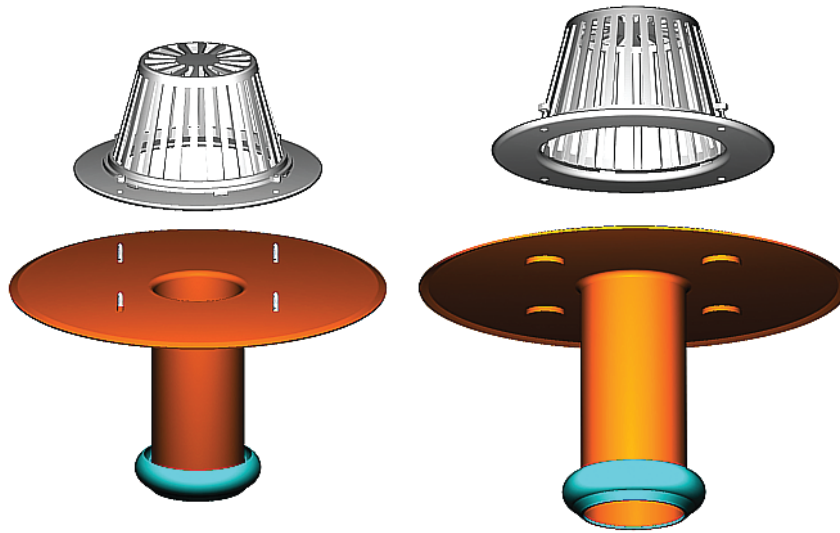
**Precautions:** If coating drain flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ordering and Availability:** Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.





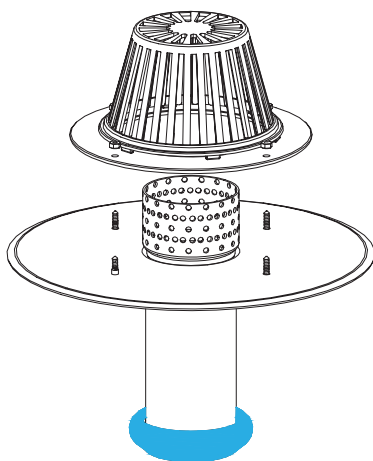
## RD-39C Copper Roof Drain



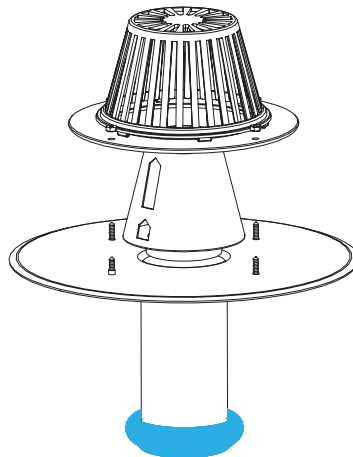
Underside of Deck Flange  
Showing Straight Outlet



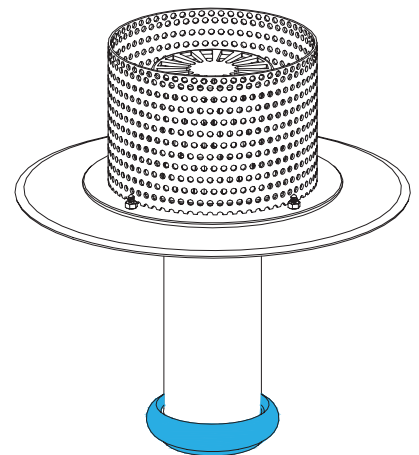
RD-39SS Stainless Steel Roof  
Drain



Exploded View Showing  
Optional T-5 Sediment Collar  
Accessory



View Showing Optional T-7  
Flow Control Accessory

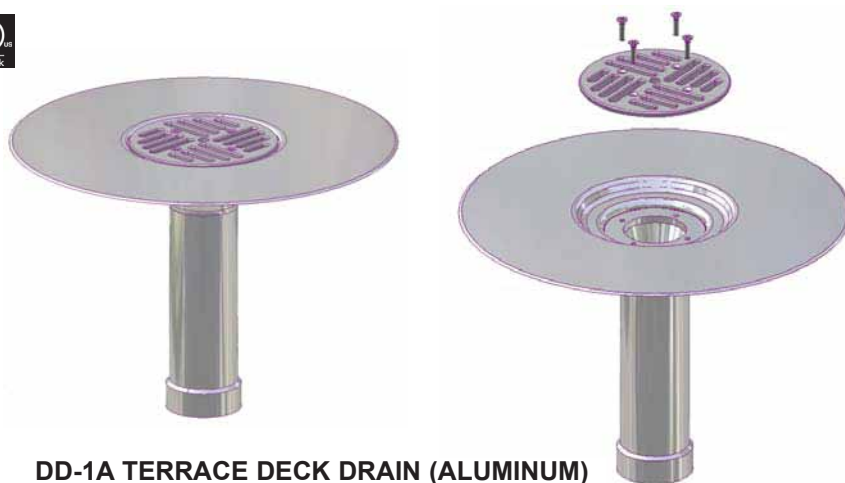


View Showing Ballast Guard  
Friction Fitted to Dome Strainer

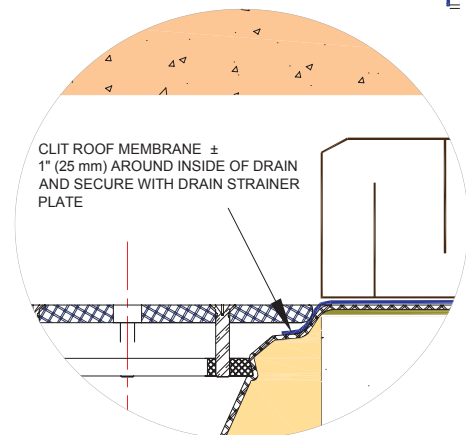
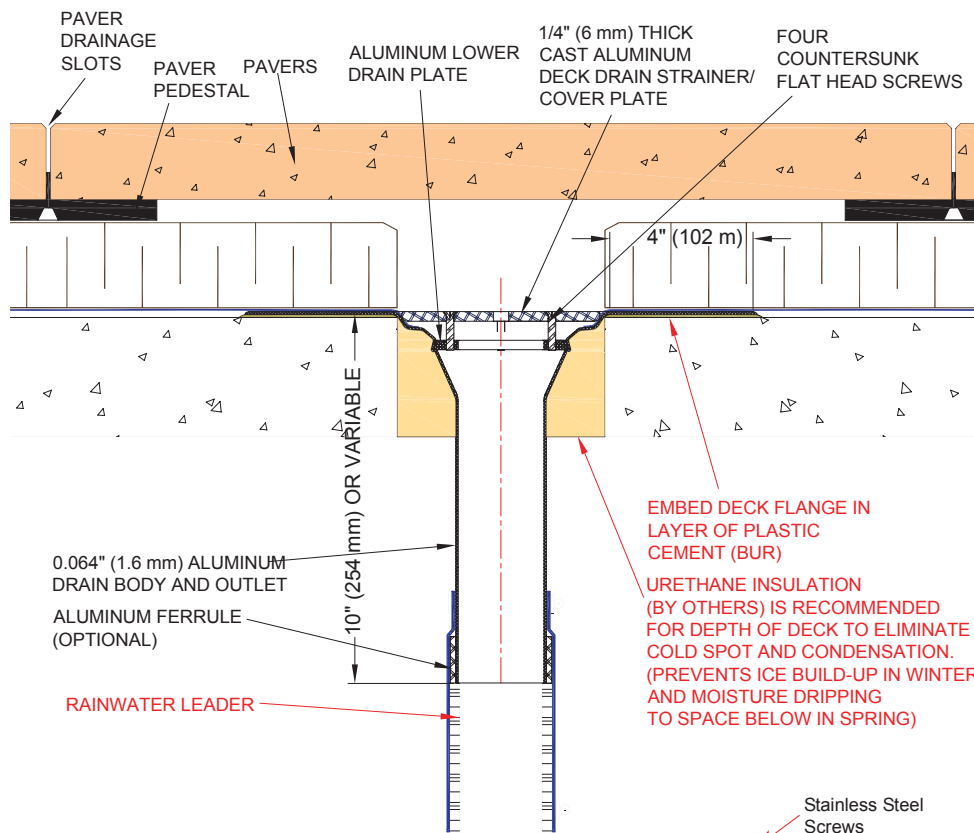
**Material Specification for RD-39C (Copper) and RD-39SS (Stainless Steel) Roof Drains (RD-39A Aluminum Illustrated on page M-28)**

**Note:** In Short Form specification on front side of sheet, edit clause to reflect choice of copper (RD-39C) or stainless steel (RD-39SS) roof drain in lieu of aluminum if desired.

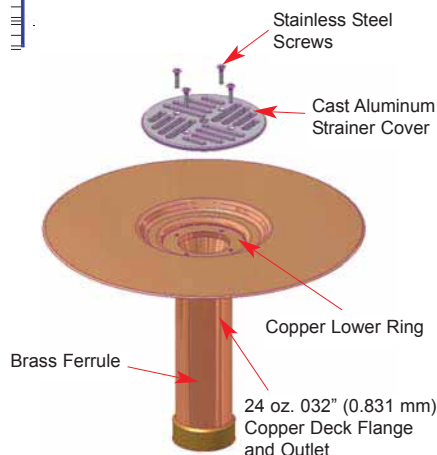
Drain Type	Strainer	Underdeck Clamp	Drain Body and Base	T-5 Sediment Collar	T-6 Ferrule	T-7 Flow Control	T-12 Ballast Guard
RD-39A	Cast Aluminum	Stainless Steel	Aluminum 0.064" (1.6 mm)	Aluminum	Aluminum	Aluminum	Stainless Steel
RD-39C	Cast Aluminum	Stainless Steel	Copper base: 24 oz. 0.032" (0.831 mm) pipe: DWV 0.058" (1.47mm)	Copper	Brass	Copper or Painted Aluminum	Stainless Steel
RD-39SS	Cast Aluminum	Stainless Steel	Stainless Steel base: 22 Ga. (0.8mm) pipe: Type 304 0.12" (3mm)	Stainless Steel	Stainless Steel	Painted Aluminum or Stainless Steel	Stainless Steel



**DD-1A TERRACE DECK DRAIN (ALUMINUM)**



**LARGE SCALE DETAIL**



**DD-1C TERRACE DECK DRAIN (COPPER)**

## ROOF SPECIALTIES DD-1A ALUMINUM TERRACE DECK DRAIN, DD-1AF FLOOR DRAIN

### DESCRIPTION:

The Thaler DD-1A Terrace Deck Drain consists of a cast aluminum cover strainer/plate, aluminum lower ring, cover plate retaining screws, aluminum funnel type outlet (with aluminum ferrule), and deck flange.

### LEADER DIAMETERS:

Suitable for 2" and 3" (51 mm and 76 mm) leader sizes, or 4" (102 mm) on special order.

### OPTIONS:

DD-1 C copper drain. PVC coated deck flange for PVC roof membrane. Bituminous painted deck flange for BUR and ModBit roof membrane.

### RECOMMENDED USE:

All purpose drain for terrace roofs in new construction applications with pavers, or floors (see reverse side of page).

### APPROVALS:

Awarded CSA B79 (2008) - ASME A112.6.4 (2012).

### WARRANTY:

20 year warranty against defects in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

### MAINTENANCE:

No maintenance required (maintenance free), however, as per CRCA/NRCA recommendations, drains should be inspected twice a year (spring and fall) and any debris removed.

### SPECIFICATION (SHORT FORM):

**[Roof][Floor] drains:** Thaler [DD-1A drain][DD-1C drain] for [2" (51 mm) 3" (76 mm)] [4" (102 mm)] leader size; with: 1/4" (6 mm) cast aluminum cover strainer, lower drain plate; .064" (1.6 mm) funnel type aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule] [24 oz. funnel type drain body, deck flange and straight copper outlet with brass ferrule]; four 1/4" (6 mm) s.s. screws; manufactured by Thaler Metal Industries, 1-800-387-7217 Mississauga, Ontario, Canada) or 1-800-576-1200 (USA), installed as per manufacturer's written instructions. Provide standard 20 year warranty against defects in materials and/or manufacture.

### INSTALLATION:

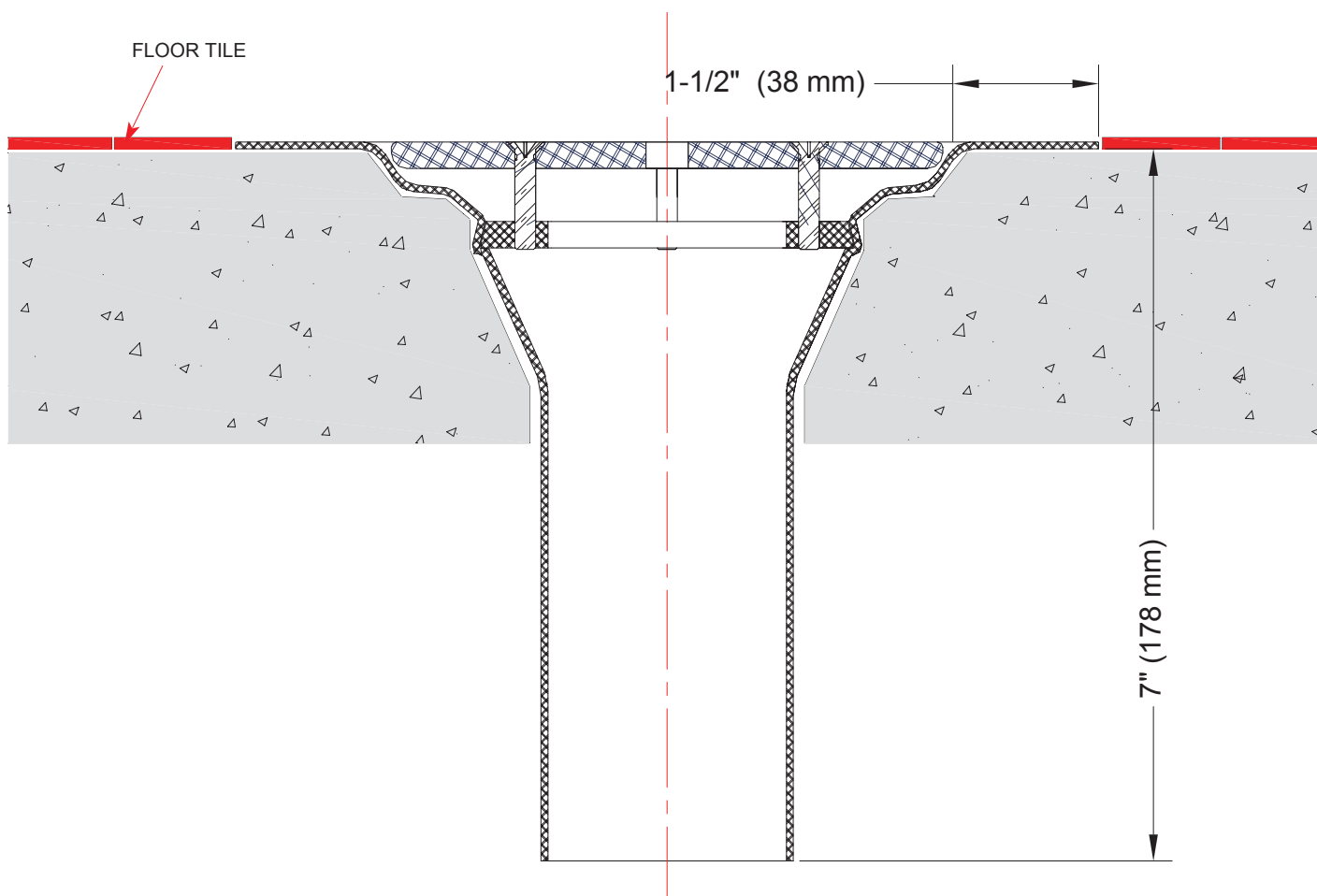
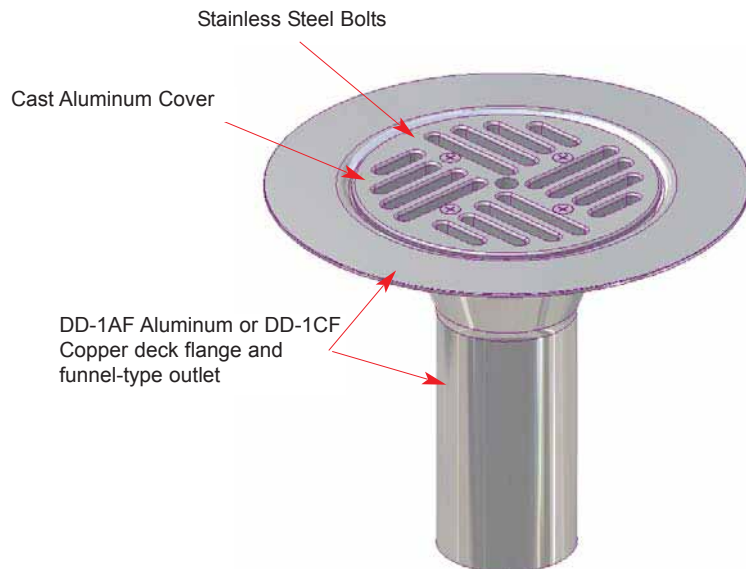
"Installation Instructions" are provided with every Thaler product. Essentially, the DD-1A or DD-1C roof drain is installed by fitting and connecting the drain outlet to the rainwater leader, applying the membrane over the drain deck flange and into the drain body minimum 1" (25 mm), installing the strainer cover and bolting into lower drain plate, and as follows:

### ORDERING:

Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.



PLAN VIEW



DD-1AF ALUMINUM FLOOR DRAIN / DD-1CF COPPER FLOOR DRAIN

## ROOF SPECIALTIES HYDROSTATIC TEST RESULTS FOR THALER RETROFIT ROOF DRAIN WITH SUPER-SEAL RING GASKET

### INTRODUCTION

A number of mocked-up roof drain assemblies equipped with the Thaler Super-Seal EPDM sealing ring gasket were tested to establish at what pressure water bypassed the installed Super-Seal ring. Each of the mock-up samples consisted of:

- a 12" (305 mm) long steel "drain pipe leader" with a flat plate welded onto the bottom of the pipe.
- a 9" (229 mm) long copper "drain outlet pipe" with the top capped with a copper plate equipped with two nipples soldered to the plate (one nipple for introducing air pressure and the other nipple to monitor the supplied pressure). The bottom of the "outlet" was fitted with the Thaler Super-Seal EPDM sealing ring.

### PROCEDURE

Each "leader" was filled with water to a level 1/2" (12 mm) below the top edge of the "leader".

The copper "drain outlet" with silicone lubricated Super-Seal ring was then inserted into the steel "leader" and secured using a threaded rod attached to the top and bottom plates to prevent the two components from separating during testing.

Air pressure was applied using a regulated electric air pump or regulated shop service, as required. Pressure was monitored using a calibrated 0" to 200" H<sub>2</sub>O Merical digital manometer or calibrated Matheson 0 to 30 psi gauge, as required. Air pressure was slowly introduced into each assembly until visible water leakage was noted around the Super-Seal EPDM sealing ring. The pressure at which leakage was observed was then noted. The results are shown in the chart below.



### HYDROSTATIC TEST RESULTS\*

Nominal Size Steel Drain Pipe Leader	Steel "Drain Pipe Leader" I.D.	Copper "Drain Outlet" Pipe O.D.	** Maximum Applied Pressure at Which Leakage Occurred		
2" (51 mm)	1.97" (50 mm) Sched 80	1.37" (34.8 mm)	2.67 psi (18.40 kPa)	74" H <sub>2</sub> O (1880 mm)	384 psf (18.40 kPa)
	2.06" (52.3 mm) Sched 40		1.55 psi (10.69 kPa)	43" H <sub>2</sub> O (1093 mm)	223 psf (10.63 kPa)
3" (76 mm)	2.92" (74.2 mm) Sched 80	2.35" (59.7 mm)	3.28 psi (22.61 kPa)	91" H <sub>2</sub> O (2311 mm)	472 psf (22.6 kPa)
	3.070" (78 mm) Sched 40		2.78 psi (19.17 kPa)	77" H <sub>2</sub> O (1956 mm)	400 psf (19.15 kPa)
4" (102 mm)	3.84" (97.5 mm) Sched 80	3.32" (84.3 mm)	2.75 psi (18.96 kPa)	76.1" H <sub>2</sub> O (1933 mm)	396 psf (18.96 kPa)
	4.04" (102.6 mm) Sched 40		1.10 psi (7.58 kPa)	30.5" H <sub>2</sub> O (775 mm)	158 psf (7.57 kPa)
5" (127 mm)	4.875" (124 mm) Sched 80	4.34" (110 mm)	30 psi (206.84 kPa)	830" H <sub>2</sub> O (21 082 mm)	4320 psf (206.84 kPa)
	5.084" (129 mm) Sched 40		1.84 psi (12.68 kPa)	51" H <sub>2</sub> O (1295 mm)	265 psf (12.69 kPa)
6" (152 mm)	5.743" (146 mm) Sched 80	5.258" (134 mm)	20 psi (137.89 kPa)	553" H <sub>2</sub> O (14 046 mm)	2880 psf (137.89 kPa)
	6.050" (154 mm) Sched 40		1.37 psi (9.44 kPa)	38" H <sub>2</sub> O (965 mm)	197psf (9.44 kPa)

See reverse side of page for additional Illustrations

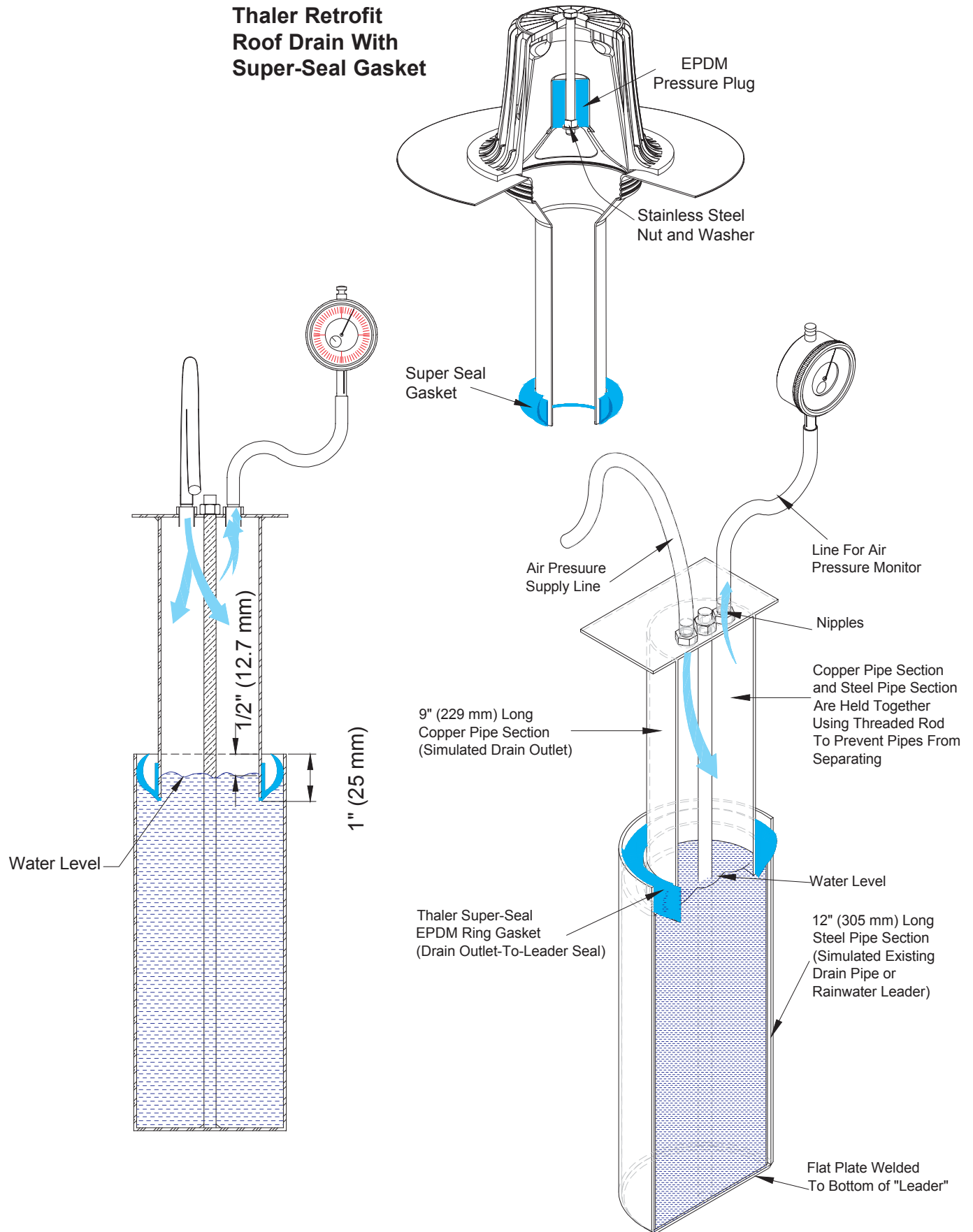
\* Test performed by ITS (Intertek Testing Services), Mississauga, Ontario, Canada. A copy of the actual test report is available from Thaler upon request.

\*\* A cubic foot (28.32 L) of water weighs approximately 62.4 lbs (28.3 Kg). A one-inch (25 mm) high column of water exerts a pressure of 1/1728 of 62.4 (28.3 Kg) or .361 lbs (1.64 Kg) on one square inch (645 mm<sup>2</sup>).

On one square foot (0.0929 m<sup>2</sup>) the load is 1/12 of 62.4 (28.3 Kg) or 5.2 lbs (2.36 Kg). Stated another way, the measurement of a static head of 1" (25 mm) water column equals 5.2 psf or 0.036 psi (0.670 kPa or 0.248 kPa) pressure. The conversion factor for 1 inch of water (H<sub>2</sub>O) column (20°C, 68°F) is 3 374.110 Pa or 3.374 110 kPa.

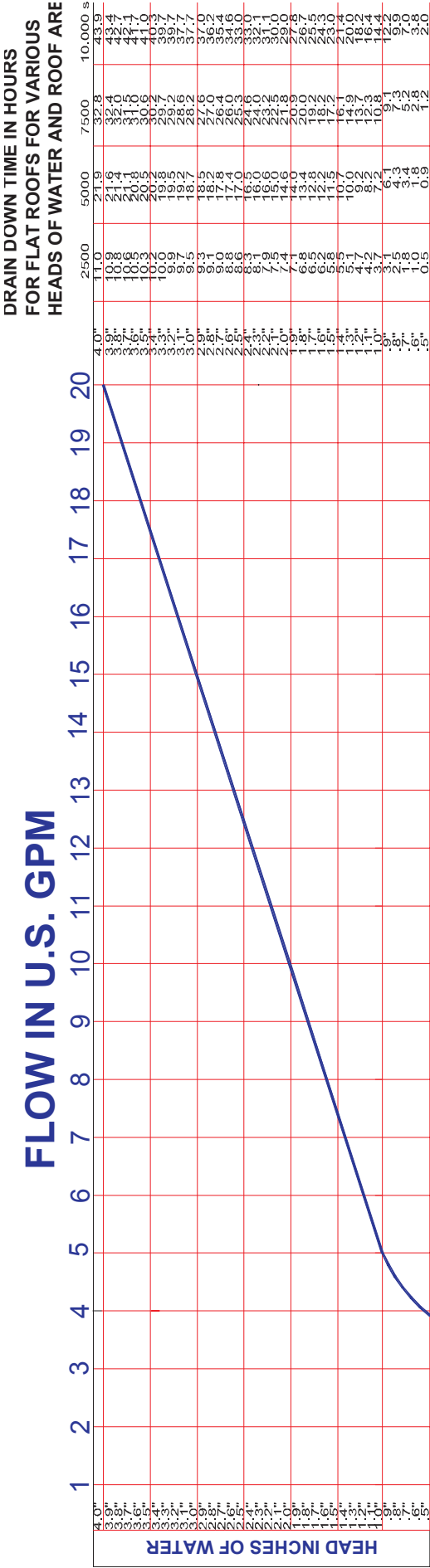


# Thaler Retrofit Roof Drain With Super-Seal Gasket



**TYPICAL TEST MOCK-UP SAMPLE OF DRAIN OUTLET-TO-LEADER SEAL**

ROOF SPECIALTIES  
VANDALPROOF  
ROOF DRAINS  
FLOW CONTROL CHART



**FLOW CONTROL APPLICATION**

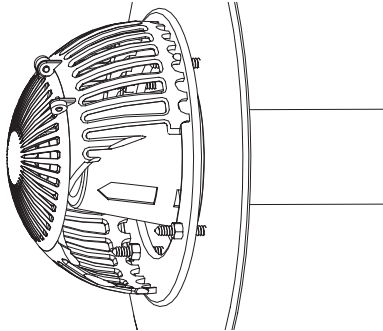
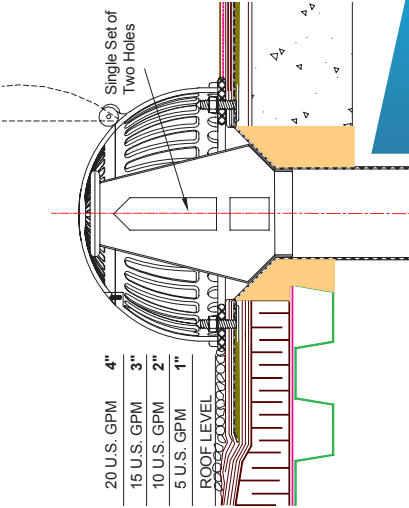
The need to control or restrict the flow of rainwater was a result of rapid growth within city centres. Existing drainage systems were unable to cope with the increased flow created by new commercial developments. To meet this increased demand the Thaler T-7 Flow Control (weir) accessory was developed. With the use of this specialty designed T-7 Flow Control accessory the roof is utilized as a temporary rainwater reservoir, thus eliminating the need to upgrade existing municipal drainage systems. Rather than draining rainwater as fast as it falls, the T-7 Flow Control, which is pre-calibrated at the factory, holds water back on the roof temporarily and sufficiently for the drainage system to function normally, even under adverse rainfall conditions.

**DRAIN SELECTION RAINFALL PROCEDURE FOR THALER FLOW CONTROLS**

- A** Determine maximum rain fall per hour in locality of building.
- B** Determine total roof area to be drained.
- C** Calculate the total number of roof drains required for roof size (See local by-laws for maximum drain spacing).
- D** Calculate GPM per drain
- E** Specify GPM requirement on drawing.

**Example:** A 1" (25 mm) head of water on a 2500 square foot (232 square metre) roof will take approximately 3.7 hours to drain, based on the use of a single roof drain flowing at a rate of 5 U.S. GPM. The same head of water on a 10,000 square foot (929 square metre) roof, based on the use of one drain, flowing at a rate of 5 U.S. GPM, would take 14.4 hours to drain; alternatively, if using four drains on the larger roof, the drain down time would be 3.7 hours.

**CAUTION: ENSURE STRUCTURE IS CAPABLE OF WITHSTANDING THE INCREASED LOADS (Head of Water).**  
**Note:** All calculations based on single set of two holes supplied with T-7 Flow Control accessory. A four hole accessory is available which provides twice the efficiency.



**Note:** This roof drains specification, with minor editing, has been written as a separate section of work. Alternatively, the appropriate clauses may be incorporated as part of a roofing specification.

## PART 1: GENERAL

### 1.01 SECTION INCLUDES

- A. Supply and installation of roof accessories, including:
  - 1. Roof drains.

### 1.02 RELATED SECTIONS

- A. Section 07200 - Thermal Protection

**Note:** Urethane insulation air/vapour barrier protection is recommended for depth of deck where drains penetrate the roof deck, to eliminate cold spots and prevent ice build-up in winter and moisture dripping to space below in spring.

- B. Section 07500 - Membrane Roofing
- C. Section 15413 - Drainage Waste and Vent Piping - Cast Iron and Copper
- D. Section 15414 - Drainage Waste and Vent Piping - Plastic

### 1.03 REFERENCES

- [A. CSA B79 (2008) - ASME A112.6.4 (2012).
- [B. CRCA (Canadian Roofing Contractor's Association)]
- [C. NRCA (National Roofing Contractor's Association)]
- [D. SPRI (Single Ply Roofing Institute)]
- [E. CUFCA (Canadian Urethane Foam Contractor's Association) and CGSB-51-GP 46MP Manual for "Installers of Spray Polyurethane Foam Thermal Insulation" and ASTM C1029-90 "Spray Applied Rigid Cellular Polyurethane Thermal Insulation"]

### 1.04 SUBMITTALS

- A. Manufacturer's descriptive literature for each product, including section or other type details.
- B. Manufacturer's written installation instructions.
- C. Shop drawings and samples, when required, in accordance with Section [01300]. Indicate drain size, type and location of tapered insulation sumps as applicable.

## 1.05 QUALITY ASSURANCE

A. Roof accessories manufacturer to have minimum 5 years documented experience in the design and fabrication of roofing specialties and accessories.

## 1.06 SPECIAL WARRANTY

A. Warrant products installed under this section of work to be free of leaks and defects in materials and/or manufacture for a period of 20 years when installed in accordance with the manufacturer's written instructions.

# PART 2: PRODUCTS

## 2.01 MANUFACTURER

A. Provide products as manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (USA) or provide equal products by another manufacturer approved in advance by the [Architect], based upon:

1. 20 year warranty against leaks and defects in materials and/or manufacture, as applicable;
2. awarded with CSA B79 (2008) - ASME A112.6.4 (2012) Roof Drains standard;
3. maintenance free design;
4. materials and sizes options, and thicknesses;
5. drain options available i.e. sediment collar, flow control accessory, treated deck flange, copper annealed expansion outlet, EPDM outlet-to-leader retrofit seal, stainless steel under-deck clamp, brass or aluminum ferrules;
6. availability of engineered flow chart data where required for metered drainage;
7. use of EPDM outlet-to-leader gasket for retrofit drains, as applicable;
8. written installation instructions.

## 2.02 GENERAL

A. This section to be read in conjunction with Sections [07 \_\_\_\_\_] and [15 \_\_\_\_\_].

## 2.03 MANUFACTURED UNITS

### RD-1C Vandalproof Copper Roof Drain (All Purpose, Expansion Outlet)

**A. Roof drains:** Thaler RD-1C drain for [3" (76 mm)] [4" (102 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; 24 oz. .032" (0.813 mm) spun copper pan-formed drain body, deck flange and expansion outlet with: copper ferrule; 3/8" (9 mm) s.s. bolts welded to drain body; bronze stabilizer ring; cast aluminum underdeck clamping ring; [T-5 copper sediment collar;] [perforated 22 ga. (0.76 mm) s.s. ballast guard;] [T-7 aluminum flow control accessory;] [PVC coated deck flange] [bituminous painted deck flange].

### RD-4A Vandalproof Aluminum Roof Drain (All Purpose, Straight Outlet)

**Note:** Edit specification clause to reflect choice of copper (RD-4C) or stainless steel (RD-4SS) roof drain in lieu of aluminum if desired.



**B. Roof drains:** Thaler RD-4A drain for [3" (76 mm)] [4" (102 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; cast aluminum under-deck clamping ring; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-4A-RR Vandalproof Aluminum Roof Drain (All Purpose, Straight Outlet, Retrofit)**

**Note:** Edit specification clause to reflect choice of copper (RD-4C-RR) or stainless steel (RD-4SS-RR) roof drain in lieu of aluminum if desired.

**C. Roof drains:** Thaler RD-4A-RR drain for [3" (76 mm)] [4" (102 mm)] [5" (127 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-9 Super-Seal EPDM sealing ring;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-4A-8 or 10 Vandalproof Big Aluminum Roof Drain (All Purpose, Straight Outlet, New Construction)**

**Note:** Edit specification clause to reflect choice of copper (RD-4C-8 or RD-4C-10) or stainless steel (RD-4SS-8 or RD-4SS-10) roof drain in lieu of aluminum if desired.

**D. Roof drains:** Thaler [RD-4A-8] [RD-4A-10] big, aluminum roof drain for [8" (203 mm)] [10" (254 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; cast aluminum under-deck clamping ring; [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-4A-8-RR or 10 Vandalproof Big Aluminum Roof Drain (All Purpose, Straight Outlet, Retrofit)**

**Note:** Edit specification clause to reflect choice of copper (RD-4C-RR-8 or RD-4C-RR-10) or stainless steel (RD-4SS-8-RR or RD-4SS-10-RR) roof drain in lieu of aluminum if desired.

**E. Roof drains:** Thaler [RD-4A-8-RR] [RD-4A-10-RR] big aluminum retrofit roof drain for [8" (203 mm)] [10" (254 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) pan-formed aluminum drain body, deck flange and straight aluminum outlet with Emseal tape; 3/8" (9 mm) aluminum bolts welded to drain; cast aluminum stabilizer ring; cast aluminum under-deck clamping ring; [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-7A Vandalproof Aluminum Roof Drain (All Purpose, Straight Outlet)**

**Note: Edit specification clause to reflect choice of copper (RD-7C) or stainless steel (RD-7SS) roof drain in lieu of aluminum if desired.**

F. Roof drains: Thaler RD-7A aluminum drain for [2" to 8" (44 mm to 203 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) aluminum funnel drain body, four 3/8" (9 mm) aluminum mounting bolts welded to underbody reinforcement discs, deck flange and straight aluminum outlet with [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-7A-RR Vandalproof Aluminum Roof Drain (All Purpose, Straight Outlet, Retrofit)**

**Note: Edit specification clause to reflect choice of copper (RD-7C-RR) or stainless steel (RD-7SS-RR) roof drain in lieu of aluminum if desired.**

G. Roof drains: Thaler RD-7A-RR aluminum drain for [1-3/4" to 7-3/4" (44 mm to 197 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate clamped directly to drain body; .090" (2.3 mm) aluminum round drain body, four 3/8" (3 mm) aluminum mounting bolts welded to underbody reinforcement discs, deck flange and straight aluminum outlet with [T-5 aluminum sediment collar;] [T-9 Super-Seal EPDM sealing ring;] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-7A-8 Vandalproof Big Aluminum Roof Drain (All Purpose, Straight Outlet)**

**Note: Edit specification clause to reflect choice of copper (RD-7C-8) or stainless steel RD-7SS-8) roof drain in lieu of aluminum if desired.**

H. Roof drains: Thaler RD-7A-8 aluminum big roof drain for 8" (203 mm) leader size; with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring; .090" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; six 3/8" (9 mm) aluminum bolts welded to underbody reinforcement discs; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-7A-8-RR Vandalproof Big Aluminum Roof Drain (All Purpose, Straight Outlet, Retrofit)**

**Note: Edit specification clause to reflect choice of copper (RD-7C-RR) or stainless steel (RD-7SS-RR) roof drain in lieu of aluminum if desired.**

I. Roof drains: Thaler RD-7A-8-RR aluminum big re-roofing roof drain for 8" (203 mm) leader size; with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring; .090" (2.3mm) aluminum drain body, deck flange and straight aluminum outlet with EMSEAL tape; six 3/8" (9 mm) aluminum bolts welded to underbody reinforcement discs; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### RD-14A Vandalproof Aluminum Roof Drain (All Purpose, Straight Outlet)

**Note:** Edit specification clause to reflect choice of copper (RD-14C) or stainless steel (RD-14SS) roof drain in lieu of aluminum if desired.

**J. Roof drains:** Thaler RD-14A aluminum drain for [2" to 10" (51 mm to 254 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .090" (2.3 mm) spun aluminum flat drain body, deck flange and straight seamless aluminum outlet with [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 stainless steel ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### RD-14A-RR Vandalproof Aluminum Roof Drain (All Purpose, Low Spot Retrofit)

**Note:** Edit specification clause to reflect choice of copper (RD-14C-RR) or stainless steel (RD-14SS-RR) roof drain in lieu of aluminum if desired.

**K. Roof drains:** Thaler RD-14A-RR aluminum drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .090" (2.3 mm) spun aluminum flat drain body, deck flange and straight seamless aluminum outlet with [T-5 aluminum sediment collar;] [T-9 Super-Seal EPDM sealing ring;] [T-10 stainless steel under deck clamp;] [T-7 aluminum flow control accessory;] [T-12 stainless steel ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### RD-16A Vandalproof Aluminum Roof Drain (All Purpose, Straight Offset Outlet)

**Note:** Edit specification clause to reflect choice of copper (RD-16C) or stainless steel (RD-16SS) roof drain in lieu of aluminum if desired.

**L. Roof drains:** Thaler RD-16A aluminum drain for [2" to 8" (51 mm to 204 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .090" (2.3 mm) aluminum drain body, deck flange and straight offset aluminum outlet with [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### RD-16A-RR Vandalproof Aluminum Roof Drain (All Purpose, Low Spot Retrofit, Offset Outlet)

**Note:** Edit specification clause to reflect choice of copper (RD-16C-RR) or stainless steel (RD-16SS-RR) roof drain in lieu of aluminum if desired.

**M. Roof drains:** Thaler RD-16A-RR aluminum drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate welded to drain body; .090" (2.3 mm) aluminum flat drain body, deck flange and straight offset aluminum outlet with [T-5 aluminum sediment collar;] [T-9 Super-Seal EPDM sealing ring;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-160A Vandalproof Aluminum Roof Drain (All Purpose, Straight Offset Outlet)**

**DD. Roof Drains:** Thaler RD-160A Aluminum drain for [2" to 5" (51 mm to 127 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate and clamping ring; .090" (2.3 mm) aluminum drain body, deck flange and straight offset outlet with, cast aluminum stabilizer ring, 3/8" (9 mm) aluminum bolts welded to drain body and stabilizer ring, [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-10 stainless steel under-deck clamp;] [T-7 aluminum flow control accessory;] [T-12 s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange];

#### **RD-19-SS Stainless Steel Roof Drain (for Promenade Decks or Terraces)**

**N. Roof drains:** Thaler RD-19-SS drain for inverted roofs, for [2 (51mm) to 6" (152 mm)] leader size; with: 7-3/4" (197 mm) removable, square, linear slotted [cast aluminum] [bronze] grate; 22 ga. (0.8 mm) stainless steel drain body, 7-3/4" (197 mm) square x [specified height] with 1/4" (6 mm) or larger perforations throughout; deck flange; 0.12" (3 mm) stainless steel Type 304 straight out et with [T-6 stainless steel ferrule;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-19-SS-RR Stainless Steel Retrofit Roof Drain (for Promenade Decks or Terraces)**

**O. Roof drains:** Thaler RD-19-SS-RR retrofit drain for inverted roofs, for [1-3/4" (44 mm) to 5-3/4" (146 mm)] leader size; with: 7-3/4" (197 mm) removable, square, linear slotted [cast aluminum] [bronze] grate; 22 ga. (0.8 mm) stainless steel drain body, 7-3/4" (197 mm) square x [specified height] with 1/4" (6 mm) or larger perforations throughout; deck flange; stainless steel straight outlet with [Super-Seal EPDM sealing ring;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-24A Vandalproof Aluminum Roof Drain (All Purpose, Straight Outlet)**

**Note: Edit specification clause to reflect choice of copper (RD-24C) or stainless steel (RD-24SS) roof drain in lieu of aluminum if desired.**

**P. Roof drains:** Thaler RD-24A drain for conventional roofs, for [3" (76 mm)] [4" (102 mm)] [5" (127 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate and clamping ring; 0.09" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet with aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to underbody reinforcement discs; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 stainless steel ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-24A-RR Vandalproof Retrofit Aluminum Roof Drain (All Purpose, Straight Outlet)**

**Note: Edit specification clause to reflect choice of copper (RD-24C-RR) or stainless steel (RD-24SS-RR) roof drain in lieu of aluminum if desired.**

**Q. Roof drains:** Thaler RD-24A-RR drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate, four 3/8" (9 mm) mounting bolts welded to underbody reinforcement discs, 0.09" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet with EPDM Super-Seal; [T-5 aluminum sediment collar;] [T-6 aluminum ferrule;] [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 stainless steel ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].



#### RD-24A-8 or 10 Vandalproof Big Aluminum Roof Drain (All Purpose, Straight Outlet)

**Note:** Edit specification clause to reflect choice of copper (RD-24C-8 or RD-24C-10) or stainless steel (RD-24SS-8 or RD-24SS-10) roof drain in lieu of aluminum if desired.

**R. Roof drains:** Thaler [RD-24A-8] [RD-24A-10] drain for [8" (203 mm)] [10" (254 mm)] leader size with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring; .090" (2.3 mm) flat aluminum drain body; deck flange and straight aluminum outlet with aluminum ferrule; six 3/8" (9 mm) mounting bolts welded to underbody reinforcement discs; [T-10 stainless steel underdeck clamp; T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### RD-24A-RR-8 or 10 Vandalproof Big Aluminum Roof Drain (All Purpose, Retrofit, Straight Outlet)

**Note:** Edit specification clause to reflect choice of copper (RD-24C-RR-8 or RD-24C-RR-10) or stainless steel (RD-24SS-RR-8 or RD-24SS-RR-10) roof drain in lieu of aluminum if desired.

**S. Roof drains:** Thaler [RD-24A-RR-8] [RD-24A-RR-10] drain for [8" (203 mm)] [10" (254 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate welded to cast aluminum ring; .090" (2.4 mm) flat aluminum drain body, deck flange and straight aluminum outlet with Emseal tape; six 3/8" (9 mm) mounting bolts welded to underbody reinforcement discs; [T-10 stainless steel underdeck clamp; T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### RD-240A Vandalproof Aluminum Roof Drain (All Purpose, Straight Outlet)

**EE. Roof Drains:** Thaler RD-240A drain for conventional roofs, for [3" (76 mm)] [4" (102 mm)] [5" (127 mm)] [6" (152 mm)] leader size; with: vandalproof cast aluminum dome with hinged access gate and clamping ring; .09" (2.3 mm) aluminum drain body, deck flange and straight aluminum outlet [with] [without] T-6 aluminum ferrule; 3/8" (9 mm) aluminum bolts welded to reinforcement discs; [T-5 aluminum sediment collar; T-6 aluminum ferrule; T-7 flow control accessory;] [T-10 stainless steel underdeck clamp; T-12 stainless steel ballast guard;] [PVC coated deck flange] [bituminous painted deck flange];

#### RD-28A- Economy Aluminum Roof Drain (All Purpose, Funnel Outlet)

**Note:** Edit specification clause to reflect choice of copper (RD-28C) or stainless steel (RD-28SS) roof drain in lieu of aluminum if desired.

**T. Roof drains:** Thaler RD-28A drain for [2" to 6" (51 mm to 152 mm)] leader size; with: removable [PVC] [cast aluminum] strainer; perforated .064" (1.6 mm) aluminum gravel stop; .064" (1.6 mm) deck flange and funnel outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar; T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;]

#### **RD-28A-RR Economy Retrofit Aluminum Roof Drain (All Purpose, Funnel Outlet)**

**Note: Edit specification clause to reflect choice of copper (RD-28C-RR or stainless steel (RD-28SS-RR) roof drain in lieu of aluminum if desired.**

**U. Roof drains:** Thaler RD-28A-RR drain for [1-3/4" (44 mm)] [2-3/4" (70 mm)] [3-3/4" (95 mm)] [4-3/4" (121 mm)] [5-3/4" (146 mm)] leader size, with: removable [PVC] [cast aluminum] strainer; perforated .064" (1.6 mm) aluminum gravel stop; .064" (1.6 mm) deck flange and funnel outlet fitted with Super-Seal EPDM sealing ring; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-29A Economy Aluminum Roof Drain (All Purpose, Straight Outlet)**

**Note: Edit specification clause to reflect choice of copper (RD-29C) or stainless steel (RD-29SS) roof drain in lieu of aluminum if desired.**

**V. Roof drains:** Thaler RD-29A drain for [2" to 6" (51 mm to 152 mm)] leader size; with: removable [PVC] [cast aluminum] strainer; perforated .064" (1.6 mm) aluminum gravel stop; .064" (1.6 mm) deck flange and straight outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perfo 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-29A-RR Economy Retrofit Aluminum Roof Drain (All Purpose, Straight Outlet)**

**Note: Edit specification clause to reflect choice of copper (RD-29C-RR) or stainless steel (RD-29SS-RR) roof drain in lieu of aluminum if desired.**

**W. Roof drains:** Thaler RD-29A-RR drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size; with: removable [PVC] [cast aluminum] strainer; perforated .064" (1.6 mm) aluminum gravel stop; .064" (1.6 mm) deck flange and straight outlet fitted with a Super-Seal EPDM sealing ring; [T-5 aluminum sediment collar;] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RDX30-A Economy Aluminum Roof Drain (All Purpose, Funnel Outlet)**

**Note: Edit specification clause to reflect choice of copper (RDX30-C) or stainless steel (RDX30-SS) roof drain in lieu of aluminum if desired.**

**X. Roof drains:** Thaler RDX30-A drain for [2" to 6" (51 mm to 152 mm)] leader size; with: vandalproof cast aluminum strainer with integral gravel guard fins and 3/8" (9 mm) s.s. retaining bolt; strainer retainer/membrane compression unit; .064" (1.6 mm) spun aluminum compression unit; deck flange with funnel type straight outlet fitted with aluminum ferrule; [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RDX30-A-RR Economy Retrofit Aluminum Super-Seal Retrofit Roof Drain (All Purpose, Funnel Outlet)**

**Note:** Edit specification clause to reflect choice of copper (RDX30-C-RR) or stainless steel (RDX30-SS-RR) roof drain in lieu of aluminum if desired.

**Y. Roof drains:** Thaler RDX30-A-RR drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size; with: vandalproof cast aluminum strainer with integral gravel guard fins and 3/8" (9 mm) s.s. retaining bolt; strainer retainer/membrane compression unit; .064" (1.6 mm) spun aluminum compression unit; deck flange with funnel type straight outlet fitted with Super-Seal EPDM sealing ring; [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-300A Economy Aluminum Roof Drain (Recessed Body, Funnel Outlet)**

**Note:** Edit specification clause to reflect choice of copper (RD-300C) or stainless steel (RD-300SS) roof drain in lieu of aluminum if desired.

**YY. Roof drains:** Thaler RDX300-A drain for [2" (51 mm)] to [6" (152 mm)] leader size, with: vandal-proof cast aluminum strainer with integral gravel guard fins and 3/8" (10 mm) s.s. retaining bolt; strainer retainer/membrane compression unit; .064" (1.6 mm) spun aluminum compression unit; deck flange with funnel type straight outlet fitted with aluminum ferrule; [T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange];

#### **RD-38A Economy Aluminum Roof Drain (All Purpose, Funnel Outlet)**

**Note:** Edit specification clause to reflect choice of copper (RD-38C) or stainless steel (RD-38SS) roof drain in lieu of aluminum if desired.

**Z. Roof drains:** Thaler RD-38A drain for [2" to 6" (51 mm to 152 mm)] leader size; with: removable cast aluminum strainer welded to clamping ring; .064" (1.6 mm) deck flange with funnel type straight outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-38A-RR Economy Retrofit Aluminum Retrofit Roof Drain (All Purpose, Funnel Outlet)**

**Note:** Edit specification clause to reflect choice of copper (RD-38C-RR) or stainless steel (RD-38SS-RR) roof drain in lieu of aluminum if desired.

**AA. Roof drains:** Thaler RD-38A-RR drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size; with: removable cast aluminum strainer welded to clamping ring; .064" (1.6 mm) deck flange with funnel type straight outlet fitted with Super-Seal EPDM sealing ring; [T-5 aluminum sediment collar] [T-7 aluminum flow control accessory;] [T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-39A Economy Aluminum Roof Drain (All Purpose, Funnel Outlet)**

**Note:** Edit specification clause to reflect choice of copper (RD-39C) or stainless steel (RD-39SS) roof drain in lieu of aluminum if desired.

**BB. Roof drains:** Thaler RD-39A drain for [2" to 6" (51 mm to 152 mm)] leader size; with: removable cast aluminum strainer with clamping ring; .064" (1.6 mm) deck flange with straight outlet fitted with aluminum ferrule; [T-5 aluminum sediment collar][T-7 aluminum flow control accessory;] [T-10 stainless steel underdeck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;] [PVC coated deck flange] [bituminous painted deck flange].

#### **RD-39A-RR Economy Aluminum Retrofit Roof Drain (All Purpose, Straight Outlet)**

**Note:** Edit specification clause to reflect choice of copper (RD-39C-RR) or stainless steel (RD-39SS-RR) roof drain in lieu of aluminum if desired.

**AA. Roof drains:** Thaler RD-39A-RR drain for [1-3/4" to 5-3/4" (44 mm to 146 mm)] leader size; with: removable cast aluminum strainer welded to clamping ring; .064" (1.6 mm) deck flange with straight outlet fitted with Super-Seal EPDM sealing ring; [T-5 aluminum sediment collar][T-7 aluminum flow control accessory;][T-10 stainless steel under-deck clamp;] [T-12 perforated 22 ga. (0.76 mm) s.s. ballast guard;][PVC coated deck flange] [bituminous painted deck flange].

#### **DD-1A Aluminum Terrace Deck (or Floor) Drain**

**Note:** Edit specification clause to reflect choice of copper (RD-40C) roof drain in lieu of aluminum if desired.

Thaler DD-1A drain for [3" (76 mm)] leader size, with: cast aluminum cover and stainless steel countersunk flat head screws; .064" (1.6 mm) aluminum deck flange with funnel type straight outlet; 1/4" (6 mm) lower aluminum ring to receive four screws.

## **PART 3: EXECUTION**

### **3.01 EXAMINATION**

- A. Report to the Contractor in writing, defects of work prepared by other trades and other unsatisfactory site conditions. Verify site dimensions. Commencement of work will imply acceptance of prepared work.
- B. Co-ordinate with Sections [07500] and [15000] prior to installation of drains.



### 3.02 INSTALLATION

1. Install roof drains in accordance with manufacturer's printed instructions.

#### **BUR**

2. Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

#### **Modified Bitumen**

3. Torch membrane until bitumen is fluid and set flashing deck flange into fluid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer. Do not overheat (melt) EPDM Base Seal.

#### **Single Ply**

4. Set deck flange in layer of membrane adhesive and extend single ply over flange and seal in accordance with membrane manufacturer's recommendations.

**Note: For PVC membrane, specify PVC coated deck flange by adding suffix P to end of Thaler model number, e.g. RD-1-P; weld roofing to deck flange using PVC torch.**

#### **PVC Single Ply**

5. Set deck flange in layer of membrane adhesive and extend single ply over flange. Weld roofing to deck flange using PVC torch

### 3.03 FIELD QUALITY CONTROL

- A. Comply with the requirements of Section [01400 - Quality Control].

### 3.04 ADJUSTING

- A. Verify that all manufactured units have been installed in accordance with specifications and details, and will function as intended. Adjust any items where necessary to ensure proper operation.

### 3.05 CLEANING

- A. Clean manufactured units using materials and methods approved by manufacturer. Do not use cleaners or techniques which could impair performance of the roofing system.

#### **End Of Section**