ABOUT THALER METAL
The Thaler Metal Industries Limited story starts around 1969 when Ken Thaler, formerly the Chief Estimator/Supervisor with a large roofing company in the 1950’s and 1960’s, recognized the need for a higher quality of roofing specialty products such as flashings, vents, roof drains, and other roof protrusion products. The high incidence of roof leaks, maintenance and labour intensive roofing specialty products inspired Ken to design and promote a superior line of roofing accessories that continue to be unequalled today.

FLOURISHING AMID THE CHALLENGES OF THE ROOFING INDUSTRY
From the 1970’s to the 2000’s, Thaler developed, engineered and honed a multitude of roofing accessory products including mechanical and electrical protrusion flashings, roof supports (all disciplines), air vents, relief vents, suspended maintenance fall production safety anchors, davit arms and roof drains. All Thaler products have a number of “Value Added” features that should be considered when trying to equate the “Or Equal Factor”.

FOR EXAMPLE, THE SINGLE MOST IMPORTANT DEVELOPMENT AT THE CENTRE OF THE COMPANY’S ACCOMPLISHMENTS – AN INDUSTRY FIRST – IS THE INVENTION, BY KEN THALER, OF UNIQUE PATENTED EPDM FLASHING SEALS FOR MECHANICAL AND ELECTRICAL ROOF PENETRATIONS. IN GENERAL, ALL ROOF PENETRATIONS ARE SUBJECT TO THE HARMFUL EFFECTS OF CONDENSATION THAT IS RESPONSIBLE FOR UP TO 80% OF ALL ROOF LEAKS.

Today however, the Thaler EPDM Base Seal eliminates condensation and condensation buildup from below, and the Thaler EPDM Triple pressure Grommet Seal eliminates flashing leaks from above. The implementation of these EPDM flashing seals in a wide array of Thaler roofing products represent a new generation of roofing products that meet the requirements of air leakage control better than any protrusion type flashings on the market today.

THALER’S COMMITMENT
In keeping with a tradition for being innovative, Thaler is constantly thinking of new and better ways to enhance roofing system performance recognized dependability. Thaler always has a better idea (keep an eye on our advances in speciality products for metal roofs). Construction professionals will continue to benefit from Thaler’s commitment to providing state-of-the-art, consistently better roofing products while assuring architects, engineers, roofing consultants, specifiers, contractors, and building owners 100% roof penetration protection - an affirmation backed by the THALER 20 YEAR WARRANTY.
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19 Roof Replacement Accessories
MISSION STATEMENT
To conscientiously listen to the needs of our partnering patrons and be obligated and accountable to provide technical knowledge, superior quality products and service they need to benefit their business.
KEN THALER

THALER BUSINESS PHILOSOPHY
Research, design and produce a range of roofing products that will outperform and provide longer life than any similar products being offered to the building industry.
**NEW-STANDARD STACK JACK™ FLASHING (Insulated)**

**Model Heights**

- SJ-37: 7” (178 mm) high
- SJ-38: 13” (330 mm) high
- SJ-39: 19” (483 mm) high

**Trade Sizes**

- 2” (51 mm)
- 3” (76 mm)
- 4” (102 mm)
- 5” (127 mm)
- 6” (152 mm)

**Details**

- **Stack Jack Flashings**
- **Removable Cap**
- **Vandalproof**
- **Sloped Roof**
- **Vandalproof Vent Cap**

**Patented**

**TRADE SIZES**

- 2” (51 mm)
- 3” (76 mm)
- 4” (102 mm)
- 5” (127 mm)
- 6” (152 mm)

**Concrete Deck**

**Steel Deck**

**TRIPLE PRESSURE GROMMET SEAL**

**EPDM BASE SEAL BONDED TO METAL SLEEVE**

**URETHANE INSULATION BONDED TO SIDE OF SLEEVE**

**THALER NEW-STANDARD STACK JACK FLASHING (ALUMINUM, COPPER AND STAINLESS STEEL)**

**VENT PIPE**

**EMBED DECK FLANGE PREMOULDED TO INNER SIDE OF SLEEVE**

**INVERTED ROOFING ILLUSTRATED**

**CONVENTIONAL ROOFING ILLUSTRATED**
EXHAUST VENT FLASHINGS

EVF-1 / EVF-2
Exhaust Vent Flashing

EVF-1
Exhaust Vent Flashing

EVF-3 / EVF-4
Exhaust Vent Flashing

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVF-1</td>
<td>12&quot; (305 mm) high</td>
</tr>
<tr>
<td>EVF-2</td>
<td>12&quot; (305 mm) high</td>
</tr>
</tbody>
</table>

Add suffix -A for Aluminum or -C for Copper to Model No. e.g. EVF-1-A, etc.

MODEL HEIGHT

EVF-1 12" (305 mm) high
EVF-2 12" (305 mm) high

TRADE SIZES
3" (76 mm)
4" (102 mm)
5" (127 mm)
6" (152 mm)
7" (178 mm)
8" (203 mm)
9" (229 mm)
10" (254 mm)

EXHAUST VENT FLASHINGS
Patented

CHERRY RIVETS HAVING 6274 kPa (1200 psi) SHEARING STRENGTH

URETHANE INSULATION PRE-MOLDED BETWEEN INNER AND OUTER SLEEVE

THALER EXHAUST VENT FLASHING (ALUMINUM, COPPER OR STAINLESS STEEL)

STAINLESS STEEL SCREWS (TWO TOTAL)

EPDM BASE SEAL BONDED TO METAL SLEEVE (SEE THALER EPDM FLASHING SEALS LITERATURE)

REMOVABLE HOOD (ALUMINUM, COPPER OR STAINLESS STEEL)

CONVENTIONAL ROOFING ILLUSTRATED

EXHAUST VENT

STEEL DECK

CONCRETE DECK

EXHAUST VENT FLASHINGS
Patented
MECHANICAL & ELECTRICAL FLASHINGS

MEF-2A1 Liquid Tight Flexible Conduit Flashing

MEF-2A Flexible Conduit Flashing

MEF-3A Hot Pipe Flashing

MEF-9 Modcon Gas Pipe Flashing

MEF-4A "B" Vent Flashing

MEF-AE1 Type B Rigid Conduit Flashing

MEF-AE1 Type A Single Rigid Conduit Flashing

MEF-2A/MEF-2A1/MEF-2A2 LIQUID TIGHT FLEXIBLE CONDUIT FLASHING

Patented

3D-VIEW SHOWING MEF-2A1 MODEL

EPDM END CAP SEAL, FRICTION FIT TO METAL PIPE
(SEE THALER EPDM FLASHING SEALS LITERATURE)

LIQUID TIGHT FLEXIBLE CONDUIT (BY OTHERS)

THALER MEF-2A LIQUID TIGHT FLEXIBLE CONDUIT FLASHING

EPDM BASE SEAL, BONDED TO METAL BASE
(SEE THALER EPDM FLASHING SEALS LITERATURE)

#14 x 2", COUNTERSUNK STAINLESS STEEL SCREWS (QUANTITY DIFFERS BETWEEN MODELS)

(102 mm)

WOOD BLOCKING TO MATCH DECK FLANGE WIDTH, LENGTH AND INSULATION THICKNESS (BY OTHERS)

EMBED DECK FLANGE IN LAYER OF PLASTIC CEMENT

CONVENTIONAL ROOFING ILLUSTRATED

CONCRETE DECK

STEEL DECK

#14 x 2", COUNTERSUNK STAINLESS STEEL SCREWS (QUANTITY DIFFERS BETWEEN MODELS)

CONVENTIONAL ROOFING ILLUSTRATED

EMBED DECK FLANGE IN LAYER OF PLASTIC CEMENT

STEEL DECK

CONCRETE DECK
ARS-575 Triangular Antenna Roof Support

ARS-590 Satellite Dish Roof Support

ARS-680 Cross-Over Stair

ARS-685 Tilt-Up Access Ladder & Roof Support

ARS-550, 550-1, 550-2 MISCELLANEOUS ROOF SUPPORT PATENTED

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>HSS SUPPORT PIPE</th>
<th>THREAD Ø</th>
<th>BASE PLATE</th>
<th>SUPPORT PLATE</th>
<th>FASTENING BOLT Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARS-550-1</td>
<td>1&quot; (25 mm)</td>
<td>1/4&quot;</td>
<td>1/4&quot; X 1/2&quot;</td>
<td>10 mm x 102 mm x 102 mm</td>
<td>5/16&quot; (8 mm)</td>
</tr>
<tr>
<td>ARS-550-2</td>
<td>1 1/2&quot; (38.1 mm)</td>
<td>3/8&quot;</td>
<td>1/2&quot; X 1&quot;</td>
<td>19 mm x 305 mm x 305 mm</td>
<td>3/8&quot; (10 mm)</td>
</tr>
</tbody>
</table>

Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.
MERS-630 Aluminum Pipe Support (large, insulated)

MERS-709 Combo Pipe Support & Cross Over Stair

MERS-900A Air Handling Unit Roof Support

MERS-930A Re-Roofing Air Handling Unit Roof Support

MERS-930A Air Handling Unit Roof Support

NOTE:
AVAILABLE SIZES 11" TO 22" (279 TO 559 mm) IN 1" INCREMENTS
SIZES 11" TO 17" (279 TO 432 mm)
PROVIDE UP TO 1" (25 mm) ADJUSTMENT
SIZES 18" TO 22" (457 mm TO 559 mm)
PROVIDE UP TO 4" (102 mm) ADJUSTMENT

F3
Specify the fastening method required by adding the appropriate suffix to a model number (e.g., MERS-615A-F2).
Relief Vents

RV-1A / RV-1C
Two Way Relief Vent

RV-2A / RV-2C
Two Way Relief Vent

RV-2A / RV-2C
Two Way Relief Vent

RV-3A / RV-3C
One Way Relief Vent

Removable Hood for Moisture Checking

0.064" (1.6 mm) Aluminum, 24 oz. (0.831 mm) Copper
Removable Conical Hood Fitted with Perforated Collar

Rivets

Stainless Steel Screws

0.064" (1.6 mm) Aluminum, or 24 oz. (0.831 mm) Copper
Sleeve Urethane Insulate

Bituminous Painted Insulation Insert Accessory. Lower Half Perforated with 1/4" (6 mm) Dia. Holes.

RV-2A Aluminum, RV-2C Copper Relief Vent

Patented
144 Square inches (930 cm²) of free venting area is required to vent 300 square feet of roof area (1/300). A minimum of two vents are required to vent any individual roof area. Venting efficiency is increased in direct proportion to the number of vents used.

For example: Four vents each with 36 square inches (232 cm²) of free venting area on a 300 square foot (28 m²) roof is preferable to using two vents, each with 72 square inches (464 cm²) of free venting area. Increasing the number of vents, while maintaining the required total amount of free venting area by decreasing the size of the individual vents allows air to be drawn from the corners of the roof, thereby increasing overall venting efficiency, and avoiding condensation formation.

### CALCULATING THE NUMBER OF GRAVITY AIR VENTS

When ordering, state inside diameter (ID) of vent pipe.

#### AVAILABLE DIAMETERS “A”

- 3” (75 mm)
- 4” (102 mm)
- 5” (127 mm)
- 6” (152 mm)
- 7” (178 mm)
- 8” (203 mm)
- 9” (229 mm)
- 10” (254 mm)

#### WHEN ORDERING, STATE

- **INSIDE DIAMETER (ID) OF VENT PIPE**
- **FREE VENTING AREA (SQ. INCHES)**

<table>
<thead>
<tr>
<th>ID (Inches)</th>
<th>Free Vent Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>436</td>
</tr>
<tr>
<td>4</td>
<td>704</td>
</tr>
<tr>
<td>5</td>
<td>1000</td>
</tr>
<tr>
<td>6</td>
<td>1320</td>
</tr>
<tr>
<td>7</td>
<td>1600</td>
</tr>
<tr>
<td>8</td>
<td>1900</td>
</tr>
<tr>
<td>9</td>
<td>2200</td>
</tr>
<tr>
<td>10</td>
<td>2500</td>
</tr>
</tbody>
</table>

**REMOVABLE CONICAL HOOD (FOR CLEANING)** FITTED WITH THREE SUPPORT BRACKETS.

- 0.064” (1.6 mm) ALUMINUM
- 24 oz. 0.032” (0.831 mm) COPPER OR
- 22 ga. 0.031” (0.79 mm) STAINLESS STEEL.

**SLEEVE WITH INTEGRAL DECK FLANGE**

- 0.064” (1.6 mm) ALUMINUM
- 24 oz. 0.032” (0.831 mm) COPPER OR
- 22 ga. 0.031” (0.79 mm) STAINLESS STEEL.

**INSECT SCREEN**

- 4.5” (114 mm) STAINLESS STEEL WOOD SCREW ON 6” (162 mm) APPROX. DISTANCE

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

**T-8 BITUMEN PROTECTION (OPTIONAL)**

**3 PLY FELT FLASHING OVER FLANGE AND 4” (102 mm), 6” (152 mm), AND 8” (203 mm) ONTO ROOF**

**CONCRETE DECK**

**STEEL DECK**

**GAV-1A, GAV-1C, GAV-1SS GRAVITY AIR VENTS (Small Size Vents)
FORGED EYE  
(FARA-3/-13)

FORGED EYE AND BASE WELDED TO HSS PIPE AND HOT DIP GALVANIZED

GUSSET PLATES BY OTHERS (WHEN REQUIRED)

EMBED DECK FLANGE IN LAYER OF PLASTIC CEMENT (BUR)

5/8" x 8" x 8" (16 mm x 203 mm x 203 mm) PLATE

EPDM BASE SEAL BONDED TO METAL SLEEVE (SEE THALER EPDM FLASHING SEALS LITERATURE)

18 GA. GALVANIZED CLOSURE PLATE SCREW FASTENED TO STEEL DECK

Four 5/8" (16 mm) S.S. BOLTS, LOCK WASHER AND NUTS

DEFORM THREADS AS PER CSA OR OSHA GUIDELINE

Typical tie-off direction

<table>
<thead>
<tr>
<th>Anchor Type</th>
<th>Eye Construction</th>
<th>Load Direction</th>
<th>Deflection After Load of 5400 lbs (24.03 kN) was Released</th>
</tr>
</thead>
<tbody>
<tr>
<td>FARA-3</td>
<td>Forged Eye, Galvanized</td>
<td>Perpendicular to the eye (x)</td>
<td>0.016&quot; (0.406 mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Perpendicular to the eye (y)</td>
<td>0.083&quot; (2.11 mm)</td>
</tr>
<tr>
<td>FARA-13</td>
<td>Forged Eye, Stainless Steel</td>
<td>Perpendicular to the eye (x)</td>
<td>0.013&quot; (0.330 mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Perpendicular to the eye (y)</td>
<td>0.046&quot; (1.17 mm)</td>
</tr>
<tr>
<td>FARA-13U</td>
<td>U Bolt, Stainless Steel</td>
<td>Perpendicular to the eye (x)</td>
<td>0.020&quot; (0.51 mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Perpendicular to the eye (y)</td>
<td>0.019&quot; (0.48 mm)</td>
</tr>
</tbody>
</table>

Note: Anchors are designed to resist without fracture and/or pull-out a force of 5400 lbs (24.03 kN), applied in the most adverse direction (x).

Thaler SJ-37(9) New Standard Stack Jack Flashing (Aluminum, Copper or Stainless Steel)

All stainless steel anchor also available (FARA-13SS/-13USS) e.g. eye, HSS, base plates, fastening and flashing.

* FOR NON-STANDARD ALTERNATIVES PLEASE CONTACT OFFICE

FALL ARREST ROOF ANCHORS (Bolt Around Beam) PATENTED
SPJ-1
Round Split Flashing

SPJ-2
Round Split Flashing

SPJ-3
Square Split Flashing

SPJ-4
Square Split Flashing
Vented Cap

TOP VIEW OF CAP

1/8” (3 mm) STAINLESS STEEL SCREW

3 PLY FELT FLASHING OVER FLANGE 4” (102 mm) 6” (152 mm) AND 8” (203 mm) ONTO ROOF

EMBED DECK FLANGE IN LAYER OF PLASTIC CEMENT

STEEL DECK

0.018” (26 ga.) TYPE 304 STAINLESS STEEL CAP

0.018” (26 ga.) TYPE 304 STAINLESS STEEL SLEEVE

S.S INSTALLATION CLAMPING CLIPS SPOT WELDED TO SLEEVE ON TWO SIDES (3 OR 4 CLIPS DEPENDING ON HEIGHT)

5” (127 mm)

EPDM TRIPLE PRESSURE GROMMET SEAL

12” (305 mm)

3 PLY FELT FLASHING OVER FLANGE 4” (102 mm) 6” (152 mm) AND 8” (203 mm) ONTO ROOF

EMBED DECK FLANGE IN LAYER OF PLASTIC CEMENT

STEEL DECK

CONCRETE DECK

PATENTED

SPJ-3 SQUARE SPLIT FLASHING
PATENTED
TERMINAL END HORIZONTAL LIFELINE ANCHOR (K-FARA-93-709)
PATENT PENDING
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.

Note: RDX30-C-RR (Copper) and RDX30-SS-RR (Stainless Steel) similar. See reverse side of page for material changes.
Engineered stamped layout or shop drawings for any fall protection scenario, including section details, can be produced for any building and any structural condition without obligation providing Thaler products are specified. Following the requirements of OSHA, labour regulations, safety standards or other regulatory bodies, roof anchors are located to provide the safest and most economical layout possible. Detailed installation instructions are supplied with every Thaler product for installation by others, or by Thaler if desired.

SAMPLES
Thaler will supply samples at no charge to specifiers on request, provided samples are returned upon completion of the evaluation.

SPECIFICATIONS
Specifications (Section Format) for fall protection roof anchors detailing the product, installation methodology, and structural loads are also provided.

ESTIMATING / PRICING
An estimate can be provided for any roof anchor project based upon a published price list of all products supplied that is available upon request.

CUSTOM PRODUCTS
The need for custom designed products arises in many instances. Thaler can design, test and produce custom products to provide a workable solution. Simply provide the structural drawings, a roof plan, and building elevations, and Thaler will produce a layout, review it with the architect, engineer or specifier, refine it where necessary, and construct a prototype for acceptance and testing.
ROOF ACCESSORIES

T-5 Sediment Collar
T-6 Ferrule
T-7 Flow Control
T-9 Super Seal
T-10 Underdeck Clamp
T-12 Stainless Steel Ballast Guard
Emseal Tape
T-13 Cast Aluminum Strainer (for RDX-30)
T-14 Cast Aluminum Strainer (RD-28 & RD-29)
T-15 Cast Aluminum Strainer (RD-4)
T-16 Cast Aluminum Strainer (for RD-7, RD-24)
New 16” Thaler Domes
T-17 Cast Aluminum Strainer (for RD-4-8, RD-4-10, RD-7-8, RD-24-8, RD-24-10)
T-18 Cast Aluminum Strainer (for RD-14, RD-16)
T-19 Cast Aluminum Strainer (RD-38, RD-39)
T-20 PVC Strainer (RD-28, RD-29)
For a complete listing of all Thaler Roofing Products please refer to our Comprehensive Technical Binder.