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# WHAT IT TAKES TO BE THALER OR EQUAL

When specifications read Thaler or Equal, it is the 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 Architectural Roof Support products have a number of Value Added features that should be considered when trying to equate the “Or Equal”.

<table>
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<tr>
<th>CHECK THE COMPETITION</th>
<th>THALER VALUE ADDED FEATURES</th>
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<tr>
<td>X</td>
<td><strong>Adjustable Height</strong>; threaded leg assembly provides up to 4” (102 mm) vertical adjustment.</td>
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<tr>
<td>X</td>
<td><strong>Light Weight</strong>; “strong-as-steel” 6061-T6 aluminum is easy to transport and handle as well as user friendly.</td>
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<tr>
<td>X</td>
<td><strong>Condensation Free</strong>; support is filled with injection molded urethane insulation which adheres to inner walls without air pockets. Provides corrosion protection while adding to product durability.</td>
</tr>
<tr>
<td>X</td>
<td><strong>Incorporates air barrier principles</strong>; supports employing through deck installation, such as steel deck over OWSJ, are protected against air leakage by the EPDM flashing seals; see Thaler EPDM Flashing Seals literature.</td>
</tr>
<tr>
<td>X</td>
<td><strong>Aesthetically pleasing</strong>; arguably the best looking architectural support products available on the market today. Clean assembly without messy caulking seals.</td>
</tr>
<tr>
<td>X</td>
<td><strong>Complete materials disclosure</strong>; all material thicknesses, dimensions, grades, finishes and other relevant product information is indicated on data sheets and in specifications.</td>
</tr>
<tr>
<td>X</td>
<td><strong>100% Re-useable</strong>; can be completely dismantled and re-used when re-roofing.</td>
</tr>
<tr>
<td>X</td>
<td><strong>Maintenance-Free</strong>; supports are equipped with Thaler pre-formed metal flashings that never need caulking (CSA B272-93). EPDM seals with “memory” provide constant pressure to outside of support to prevent leaks and condensation build-up; see Thaler EPDM Flashing Seals literature and STACK JACK Flashings literature.</td>
</tr>
<tr>
<td>X</td>
<td><strong>20 year Warranty</strong>; guaranteed against leaks, condensation and defects in materials and/or manufacture when installed in accordance with Thaler “Installation Instructions”</td>
</tr>
<tr>
<td>X</td>
<td><strong>&quot;Written “Installation Instructions”</strong>; provided with every Thaler product.</td>
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**ARS-100A FLOATING WALKWAY ROOF SUPPORT**

**DESCRIPTION:**
Thaler ARS-100A Floating Walkway Roof Support consists of a round, hollow section mill finish aluminum railing with post mounting plates, and consisting of a 42" (1066 mm) high, 1-1/2" (38 mm) diameter Schedule 40 6061-T6 alloy aluminum pipe rail (optional), walkway safety channel planks fastened to support beams using specially designed bolts and seat washers, and a STACK-JACK flashing which is available in aluminum, copper and stainless steel.

**PROMINENT FEATURES:**
Available in any width up to 72" (1830 mm) in a single span. Maintenance free (EPDM flashing seals never need caulking). See Thaler EPDM Flashing Seal literature.

**OPTIONS:**
Railing both sides, one side or no railing. Chain link fence for fire route applications. See section A of manual for STACK-JACK flashing options. Can be combined with Thaler ARS-510 and ARS-520 Metal Stairs Supports.

**RECOMMENDED USE:**
Suitable for all flat roofs to provide access for maintenance, fire route, etc. as well as protect roof surface from traffic.

**APPROVALS:**
Thaler flashing employing EPDM Triple Pressure Grommet Seal is CSA Approved to CSA B272-93 (Prefabricated Self-Sealing Roof Vent Flashing). Railings conform to safety height and strength requirements.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Floating walkway roof supports: Thaler ARS-100A, aluminum walkway of standard 44" (1118 mm) width (rail one side only); 1-1/2" (38 mm) dia. post and rails including [4" x 4" x 3/8" (102 mm x 102 mm x 9 mm) / 8" x 8" X 3/8" (203 mm x 203 mm x 9 mm)] post base plates, post height to suit with standard 42" (1066 mm) safety rail height from top of walkway to top of rail; 2-1/2" x 2-1/2" x 1/8" (64 mm x 64 mm x 3 mm) aluminum support beam with EPDM end caps; aluminum walkway anti-slip channel planks, two 18 " (457 mm) wide and 5" (127 mm) wide centre plank; [ hot dipped galvanized chain link fence 2" (51 mm) x 9 ga. by others]; and [SJ-34 uninsulated][SJ-37 insulated].

**PROMINENT FEATURES:**
- Single Ply: Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to STACK-JACK Flashing. Note: for PVC membrane, specify PVC coated aluminum.
- ModBit: 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.
- Adhesive Bolt: Fastener by others.
- STEEL DECK
- CONCRETE DECK

**ARMS-100A FLOATING WALKWAY ROOF SUPPORT**

**INSTALLATION:**
“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-100A Roof Support is installed at maximum 8'-0" (2440 mm) centres parallel to the walkway and by fastening the aluminum mounting plate to the structural roof deck, placing the STACK-JACK flashing over the support and roof membrane, as follows:

- BUR: Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.
- ModBit: Torch membrane until bitumen is liquid and set flashing deck flange into liquid. Flash in flange with two overlapping layers of ModBit and seal with asphalt sealer. Do not overheat (melt) EPDM Base Seal.
- Single Ply: Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to STACK-JACK Flashing. Note: for PVC membrane, specify PVC coated aluminum, etc. STACK-JACK by adding suffix P to end of model number e.g. ARS-100A-P; weld roofing to deck flange using PVC torch.
- Precautions: Apply an asphaltic or other type protective coating to aluminum STACK-JACK Flashing to a height of 2" (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.
- Walkway/Rail Components: Install post components and flashing, then fit support beams over posts and bolt beams to posts. Install planks using specially designed bolts and seat washers.
- Ordering: Indicate distance required from bottom of walkway support beam to roof. Specify flashing material required by adding appropriate suffix to model number e.g. ARS-100A-P; for aluminum, etc.

**MAINTENANCE:**
No maintenance required (maintenance free).

**SPECIFICATION (SHORT FORM):**
- Hot dip galvanized chain link fence 2" (51 mm) x 9 ga. by others;
- Thaler ARS-100A Floating Walkway Roof Support of standard 44" (1118 mm) width (rail one side only); 1-1/2" (38 mm) dia. post and rails including [4" x 4" x 3/8" (102 mm x 102 mm x 9 mm) / 8" x 8" X 3/8" (203 mm x 203 mm x 9 mm)] post base plates, post height to suit with standard 42" (1066 mm) safety rail height from top of walkway to top of rail; 2-1/2" x 2-1/2" x 1/8" (64 mm x 64 mm x 3 mm) aluminum support beam with EPDM end caps; aluminum walkway anti-slip channel planks, two 18 " (457 mm) wide and 5" (127 mm) wide centre plank; [ hot dipped galvanized chain link fence 2" (51 mm) x 9 ga. by others]; and [SJ-34 uninsulated][SJ-37 insulated].
- Available in any width up to 72" (1830 mm) in a single span. Maintenance free (EPDM flashing seals never need caulking). See Thaler EPDM Flashing Seal literature.
- Suitable for all flat roofs to provide access for maintenance, fire route, etc. as well as protect roof surface from traffic.
- Thaler flashing employing EPDM Triple Pressure Grommet Seal is CSA Approved to CSA B272-93 (Prefabricated Self-Sealing Roof Vent Flashing). Railings conform to safety height and strength requirements.
- 20 year warranty against leaks, condensation and defects in materials and/or manufacture when installed in accordance with Thaler “Installation Instructions”. Copy of Warranty Certificate available upon request.
- No maintenance required (maintenance free).
Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

**ARS-102A FIRE ROUTE WALKWAY ROOF SUPPORT**

**DESCRIPTION:**
Thaler ARS-102A Fire Route Walkway Roof Support consists of a round, hollow section mill finish aluminum support and mounting plate, 2” (51 mm) x 9 gauge chain link fence (optional) fastened (by others) up to 42”(1066 mm) high, 1-1/2” (38 mm) diameter mill finish 6061-T6 alloy aluminum pipe rail and STACK JACK flashing which is available in aluminum, copper or stainless steel. Paving slab walk surface is by others.

**PROMINENT FEATURES:**
Maintenance free (EPDM Flashing seals never need caulking. See Thaler EPDM Flashing Seals literature).

**OPTIONS:**
Urethane insulated support leg. Higher railings. Access gates (with manufacturer’s standard hardware) from anywhere on walkway to main roof area. Can be combined with Thaler ARS-510 and ARS-520 Metal Stair Support.

**RECOMMENDED USE:**
Suitable for all flat roofs to indicate safe escape route, or access for maintenance, etc.

**APPROVALS:**
Thaler flashing employing EPDM Triple Pressure Grommet Seal is CSA Approved to CSA B272-93 (Prefabricated Self-Sealing Roof Vent Flashings). Railings conform to safety height and strength requirements.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Fire route walkway support: Thaler ARS-102A mill finish 1-1/2” (38 mm) dia. aluminum supports, [urethane insulated], with standard 42” (1066mm) high 1-1/2” (38 mm) dia. mill finish Schedule 40 6061-T6 alloy aluminum pipe rail; access gates with manufacturer’s standard hardware; hot dipped galvanized chain link fence, 2” (51mm) x 9 ga.; [SJ-34, 7” (178 mm) high New-Standard STACK JACK flashing (Uninsulated)] [SJ-37 Insulated] consisting of .064” (1.6 mm) mill finish 1100-0T alloy aluminum [032” (0.831 mm) 24 oz. copper] [031” (0.79 mm) 22 ga. Type 304 stainless steel], 2” (51 mm) dia., to CSA B272-03; with EPDM Triple Pressure Grommet Seal and EPDM Base Seal [and 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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provides 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**
“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-102A Roof Support is installed at maximum 8’-0”(2440 mm) centers parallel to the walkway and by fastening the aluminum mounting plate to the structural roof deck, placing the STACK JACK Flashing over the support and roof membrane, and as follows:

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

**ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to STACK JACK Flashing. Note: for PVC membrane, specify PVC coated aluminum, etc. STACK JACK by adding suffix P to end of model number e.g. ARS-102A-P; weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum STACK JACK Flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Walkway/Rail Components:** Thread hollow aluminum upper support onto lower support leg, mechanically attach walkway surface (by others).

**Ordering:** Indicate distance required from top of walkway support beam to roof. Specify flashing material required by adding appropriate suffix to model number e.g. ARS-102A-F for aluminum, etc. Available throughout North America Contact Thaler for list of distributors and current cost information. Most products are available from stock.
**ARS-115 RAIL POST ROOF SUPPORT**

**DESCRIPTION:**
Thaler ARS-115 Rail Post Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, adjustable height steel cap and rail post base designed to receive a square 1-1/2" x 1-1/2" (38 mm x 38 mm) rail post (by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

**PROMINENT FEATURES:**
Condensation free. Maintenance free (never needs caulking). Threaded leg assembly provides up to 2" (51 mm) vertical adjustment for levelling if necessary.

**OPTIONS:**

**RECOMMENDED USE:**
Suitable for all flat roofs as a guard rail support at low parapets and other critical areas to protect workers from falls, or to facilitate access for maintenance.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Rail post roof supports: Thaler ARS-115 standard 14" (356 mm) high, epoxy coated, urethane insulated hollow steel supports, including appropriate fastening to structural roof deck (adhesive type by others) and steel cap (galvanized to CSA G164-M1992) and designed for affixing 1-1/2" x 1-1/2" (38 mm x 38 mm) rail posts (by others); manufacturer’s standard urethane insulated [.032" (0.831 mm) 24 oz. copper] [.031" (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal and mounting plate, adjustable height steel cap and rail post base designed to receive a square 1-1/2" x 1-1/2" (38 mm x 38 mm) rail post (by others); manufacturer’s standard urethane insulated [.064" (1.6 mm) mill finish 1100-0T alloy aluminum] [.032" (0.831 mm) 24 oz. copper] [.031" (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal and [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**
“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-115 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/post support, and as follows:

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

**ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number. e.g. ARS-115-A-P; weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum STACK JACK Flashing to a height of 2" (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Rail Components:** Thread upper portion of support (with rail post base) onto lower support leg, mechanically attach rail posts (by others), and finally walkway surface (by others) if required.

**Ordering and Availability:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-115-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are available from stock.
Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

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

### INSTALLATION:

“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-122 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/mast adapter stub, attaching the mast, and as follows:

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

**ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated flashing aluminum, etc. deck flange by adding suffix P to end of model number. e.g. ARS-122-A-P; weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Mast and Dish Components:** Thread upper portion of support (with mast adapter stub) onto lower support leg, mechanically attach mast, and finally dish (by others).

**Ordering:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-122-A; for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are available from stock.

### DESCRIPTION:

Thaler ARS-122 Satellite Dish Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, threaded steel cap with 4” (102 mm) diameter stainless steel mast adapter stub and 8’-0” (1220 mm) long closed end galvanized steel mast for mounting a satellite dish (by others). A weatherproof lock-bolt prevents the adjustable cap including adapter and dish, from counter-rotating during windy conditions. A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

### PROMINENT FEATURES:

Condensation free. Maintenance free (never needs caulking).

### OPTIONS:


### RECOMMENDED USE:

Suitable for all flat roofs as a satellite dish roof support, maximum 8’-0” (1220 mm) dish diameter.

### WARRANTY:

20 year warranty against leaks, condensation and 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).

### SPECIFICATION (SHORT FORM):

Satellite dish roof supports: Thaler ARS-122 standard 14” (356 mm) high epoxy coated, urethane insulated hollow steel support including appropriate mounting hardware for fastening to structural roof deck (adhesive type by others); threaded steel cap with 4” (102 mm) dia. s.s. mast adapter stub; 1/2” (12 mm) s.s. retaining bolt; galvanized to CSA G164-M1992 weatherproof 5/8” (16 mm) lock-bolt with EPDM seal to prevent counter-rotation of support and dish; manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] PVC coated deck flange) [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-877-1200 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.
**DESCRIPTION:**
Thaler ARS-133 Antenna Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, galvanized (optional) threaded steel cap with 2” (51 mm) diameter stainless steel antenna mast adapter stub, and 8"-0” (1220 mm) long closed end galvanized steel mast for mounting an antenna (by others). A weatherproof lock-bolt prevents the adjustable cap including adapter and antenna, from counter-rotating during windy conditions. A urethane insulated flashing available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

**PROMPT FEATURRS:**
Condensation free. Maintenance free (never needs caulking).

**OPTIONS:**

**RECOMMENDED USE:**
Suitable for all flat roofs as an antenna roof support.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Antenna roof supports: Thaler ARS-133 standard 14” (356 mm) high epoxy coated, urethane insulated hollow steel support including appropriate fastening to structural roof deck (adhesive type by others); threaded steel cap with 2” (51 mm) dia s.s. mast adapter stub; 3/8” (10 mm) s.s. retaining bolt; galvanizing to CSA 164-M1992; weatherproof 5/8” (16 mm) lock-bolt with EPDM seal to prevent counter-rotation of support; manufacturer’s standard urethane insulated [.064” (1.6 mm)] EPDM seal to prevent counter-rotation of support; manufacturer’s standard urethane insulated [.064” (1.6 mm)] EPDM seal to prevent counter-rotation of support; Epoxy coated to CSA 164-M1992; weatherproof 5/8” (16 mm) lock-bolt with EPDM seal to prevent counter-rotation of support; manufacturer’s standard urethane insulated [.064” (1.6 mm)] EPDM seal to prevent counter-rotation of support; finished 1100-07 alloy aluminum [.032” (.831 mm) 24 oz. copper] [.031” (.79 mm) 22 ga. Type 304 stainless steel] flashing and EPDM Base Seal [and] (PVC coated deck flare)[bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**
“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-133 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/mast adapter stub, attaching the mast, and as follows:

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

**ModBit:** Toric 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number. e.g. ARS-133-A-P: weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2’ (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Mast and Antenna Components:** Thread upper portion of support (with mast adapter stub) onto lower support leg, mechanically attach mast, and finally antenna (by others).

**Ordering:** Specify flashing material required by adding appropriate suffix to model member e.g. ARS-133-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**LITERATURE:**
Consult Structural Engineer for I Beam Strength Requirements. Suitable for all flat roofs as an antenna roof support.

**CERTIFICATE:**
Suitable for all flat roofs as an antenna roof support.

**CONSTRUCTION:**
Concretely cast structural roof deck [and] (PVC coated deck flare) [bituminous painted deck flange]; manufacturer’s standard urethane insulated [.064” (1.6 mm)] EPDM seal to prevent counter-rotation of support; manufacturer’s standard urethane insulated [.064” (1.6 mm)] EPDM seal to prevent counter-rotation of support; finished 1100-07 alloy aluminum [.032” (.831 mm) 24 oz. copper] [.031” (.79 mm) 22 ga. Type 304 stainless steel] flashing and EPDM Base Seal [and] (PVC coated deck flare)[bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.
Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

**Installation:**

“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-200 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap / post support, and as follows:

- **BUR:** Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.
- **ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g. ARS-200-A-P; weld roofing to deck flange using PVC torch.
- **Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.
- **Post Socket and Post Components:** Thread upper portion of support (with socket) onto lower support leg, mechanically attach posts, brace sockets (if specified), and finally trellis work.
- **Ordering:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-200-A; for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**Warranty:**

20 year warranty against leaks, condensation and 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).

**Specification (Short Form):**

- **Trellis post roof supports:** Thaler ARS-200 standard 14” (356 mm) high adjustable height, epoxy coated, urethane insulated hollow steel support, including appropriate fastening to structural roof deck (adhesive type by others), and galvanized (optional) steel cap and post socket (galvanized to CSA G164-M1992) and designed for affixing 4” x 4” (102 mm x 102 mm) wood trellis posts (by others); manufacturer’s standard urethane insulated [0.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [0.032’ (0.831 mm) 24 oz.copper] [0.031” (.079 mm) Type 22 ga. 304 stainless steel] flashing and EPDM Base Seal [and] [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**Recommended Use:**

Suitable for all flat roofs as a trellis, lattice, arbor, pergola, or screen fence support.

**Options:**


**Prominent Features:**

Condensation free. Maintenance free (never needs caulking). Threaded leg assembly provides up to 2” (51 mm) vertical adjustment for levelling if necessary.

**Description:**

Thaler ARS-200 Trellis Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, adjustable height galvanized (optional) steel cap and trellis post socket designed to receive a square, wooden 4” x 4” (102 mm x 102 mm) trellis post (by others). A urethane insulated flashing, available in aluminum, copper or stainless steel, with EPDM Base Seal, completes the assembly. Note: Unless the trellis has some type of cross support spanning across the top from one trellis to another trellis e. g. arbor or pergola design, an ARS-210 Trellis Brace Roof Support will be required to buttress the trellis at post locations. Post/brace centres in both trellis and buttress direction to be determined by trellis designer.

**Recommended Use:**

Suitable for all flat roofs as a trellis, lattice, arbor, pergola, or screen fence support.

**Warranty:**

20 year warranty against leaks, condensation and 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).

**Specification (Short Form):**

- **Trellis post roof supports:** Thaler ARS-200 standard 14” (356 mm) high adjustable height, epoxy coated, urethane insulated hollow steel support, including appropriate fastening to structural roof deck (adhesive type by others), and galvanized (optional) steel cap and post socket (galvanized to CSA G164-M1992) and designed for affixing 4” x 4” (102 mm x 102 mm) wood trellis posts (by others); manufacturer’s standard urethane insulated [0.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [0.032’ (0.831 mm) 24 oz.copper] [0.031” (.079 mm) Type 22 ga. 304 stainless steel] flashing and EPDM Base Seal [and] [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.
All steel components epoxy primed as standard. For galvanized finish, add suffix G to model number, i.e.: ARS-210-G.

Steel socket trellis brace, round, or square.

 INSTALLATION:

Installation instructions are provided with every Thaler product. Essentially, the Thaler ARS-200 or ARS-210 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap / post support, and as follows:

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

**ModBit:** Torched 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g., ARS-200-A, P: weld roofing to deck flange using PVC torch.

Precautions: Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Post Socket and Post Components:** Thread upper portion of support (with socket) onto lower support leg, mechanically attach posts, brace sockets (if specified), and finally trellis work.

Ordering: Specify flashing material required by adding appropriate suffix to model number e.g., ARS-200-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**DESCRIPTION:**
Thaler ARS-200 and ARS-210 Trellis Roof Supports consist of a urethane insulated, epoxy primed, hollow steel support and mounting plate, adjustable height galvanized (optional) steel cap and trellis post socket designed to receive a square, wooden 4” x 4” (102 mm x 102 mm) trellis post (by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly. Note: Unless the trellis has some type of cross support spanning across the top from one trellis to another trellis e.g., arbor or pergola design, an ARS-210 Trellis Brace Roof Support will be required to buttress the trellis at post locations. Post / brace centres in both trellis and buttress direction to be determined by trellis designer.

**PROMINENT FEATURES:**
Condensation free. Maintenance free (never needs caulk). Threaded leg assembly provides up to 2” (51 mm) vertical adjustment for levelling if necessary.

**OPTIONS:**
PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane. ARS-210 Trellis Brace sockets can be supplied/fabricated to any desired angle. Unless specified otherwise, 45° angle will be provided.

**RECOMMENDED USE:**
Suitable for all flat roofs as a trellis, lattice, arbor, pergola, or screen fence support.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Trellis post roof supports: Thaler ARS-200 standard 14” (356 mm) high [and ARS-210] adjustable height, epoxy coated, urethane insulated hollow steel support, including appropriate fastening to structural roof deck (adhesive type by others), and galvanized (optional) steel cap and post socket (galvanized to CSA (0164-M1992) and designed for affixing 4” x 4” (102 mm x 102 mm) wood trellis posts (by others); manufacturer’s standard urethane insulated [0.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [0.02” (0.38 mm) 24 oz. copper] [0.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing and EPDM Base Seal [and PVC coated deck flange] [bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-72 (Mississauga, Ontario, Canada) or 1-800-576-1200 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defect in materials and/or manufacture.
ARS-300, 301, 302, 303, AND 304 GUY WIRE ROOF SUPPORTS

DESCRIPTION:
Thaler ARS-300 selection of Guy Wire Supports consist of urethane insulated, epoxy primed, hollow steel support, mounting plate, and galvanized guy wire ring. A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly. Five different models are available to suit a range of structural requirements.

PREVIOUS FEATURES:
Condensation free. Maintenance free (never needs caulking).

OPTIONS:

RECOMMENDED USE:
Suitable for all flat roofs as a support for chimney stacks, high antennas and similar rooftop items requiring guy wire stabilization.

WARRANTY:
20 year warranty against leaks, condensation and 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).

SPECIFICATION (SHORT FORM):
Guy wire roof supports: Thaler [ARS-300] [ARS-301] [ARS-302] [ARS-303] [ARS-304] epoxy coated, urethane insulated hollow steel support, including appropriate fastening to structural roof deck (adhesive type by others), and steel ring with galvanized eye and stainless steel cap for affixing guy wire (by others); manufacturer’s standard epdm insulated flashing and [PVC coated deck flange][bituminous flashings] available to suit a range of structural requirements.

E-8
### PLATE YIELD STRESS 44,000 psi (303,600 kPa), HSS YIELD STRESS 50,000 psi (345,000 kPa)

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### ALTERNATIVE FASTENING METHODS

**Bolt Through Adhezive Bolts**

Specify the fastening method required by adding the appropriate suffix to model number e.g. ARS-350-T1

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**ARSI-350**, **350-1**, **350-2**, **350-3**, AND **350-4** **GUY WIRE WALL SUPPORTS**

**DESCRIPTION:**

Thaler ARS-350 selection of Guy Wire Wall Supports consist of urethane insulated, galvanized hollow steel support, guy wire ring and mounting plate. Five different models are available to suit a range of structural requirements.

**OPTIONS:**

See Thaler ARS-300 selection of roof mounted guy wire supports.

**RECOMMENDED USE:**

Suitable for attachment to all roof walls having structural sufficiency for anchoring supports, for chimney stacks, high antennas and similar roof items requiring guy wire stabilization.

**WARRANTY:**

20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**

**Guy wire wall supports:** Thaler [ARS-350-1] [ARS-350-2] [ARS-350-3] [ARS-350-4], urethane insulated galvanized hollow steel supports, including appropriate fastening to wall structure (adhesive type by others), and galvanized steel ring (hot dipped galvanized to CSA G164-M1992) for affixing guy wire (by others); manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-900-576-1200 (New Braulpels, TX), installed as per manufacturer’s written instructions. Provides 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**

“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-350 selection of Guy Wire Wall Supports are installed by fastening the support base to a structural wall, or structural component behind the wall, threading the guy wire ring onto the support, and attaching the guy wire (by others).

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

**PROMINENT FEATURES:**

Condensation free. Maintenance free.
**DESCRIPTION:**
Thaler ARS-400 Flag Pole or Rail Support consists of a urethane insulated, epoxy primed, hollow steel support and deck-mounting plate threaded steel cap with 2” (51 mm) diameter stainless steel flag pole/rail adapter stub. A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

**PROMINENT FEATURES:**
- Condensation free. Maintenance free (never needs caulking).

**OPTIONS:**
- PVC coated flashing deck flange for PVC roof membrane.
- Bituminous painted flashing deck flange for BUR and ModBit roof membrane. See Thaler ARS-115 for alternative rail support.

**RECOMMENDED USE:**
Suitable for all flat roofs as a flag pole or rail roof support.

**WARRANTY:**
- 20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
-[Flag Pole] [Rail] roof supports: Thaler ARS-400 epoxy coated, urethane insulated hollow steel support, including appropriate fastening to structural roof deck (adhesive type by others), and threaded steel cap with [2” (51 mm) dia. s.s. adapter stub] (s.s. stub machined or tapered to receive I.D. flag pole) and 3/8” (9 mm) s.s. retaining bolt; galvanizing to CSA G164-M1992; manufacturer’s standard urethane insulated [0.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [0.032” (0.831 mm) 24 oz. copper] [0.031” (0.799 mm) 22 ga. Type 304 stainless steel] flashing and EPDM Base Seal (and) [PVC coated deck flange] [Bituminous painted deck flange]; manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississsauga, Ontario, Canada) or 1-800-576-1200 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**
- “Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-400 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and membrane, installing the steel cap/flag pole or rail adapter, attaching the flag pole or rail (by others) and as follows:
  - **BUR:** Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.
  - **ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g. ARS-400-A-P; weld roofing to deck flange using PVC torch.
  - **Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosion reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.
  - **Flag Pole or Rail Components:** Thread cap/stainless steel adapter stub onto lower support leg and mechanically attach flag pole or rail (by others).
  - **Ordering:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-400-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information.Most products are readily available from stock.
ARianne S. t.50 A/C UNIT SCREEN ROOF SUPPORT  PATENTED

INSTALLATION:
“Installation Instructions” are provided with every Thaler product. Essentially, the Thaler ARS-450 Roof support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/screen frame adapter, attaching the screen framing (by others), and as follows:

BUR: Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

ModBit: 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: Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange and add suffix P to end of model number e.g. ARS-450-A-P; weld roofing to deck flange using PVC torch.

Precautions: Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

Screen Frame Components: Thread cap/stainless steel adapter stub onto lower support leg, place screen frame posts (by others) over adapter, bolt into place, and install screen (by others).

Ordering and Availability: Specify flashing material required by adding appropriate suffix to model number e.g. ARS-450-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

DESCRIPTION:
Thaler ARS-450 A/C Unit Screen Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, and threaded steel cap with 4” (102 mm) diameter or 4” (102 mm) square stainless steel screen frame adapter stub (screen frame by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

PRoMInENT FEATURES:
Condensation free. Maintenance free (never needs caulking).

OPTIoNS:
PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane. Adapter stub is available round or square.

RECOMMENDED USE:
Suitable for all flat roofs as an A/C unit screen roof support.

WARRANTY:
20 year warranty against leaks, condensation and 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).

SPECIFICATION (SHORT FORM):
A/C unit screen roof supports: Thaler ARS-450 epoxy coated urethane insulated, hollow steel support including appropriate fastening to structural roof deck (adhesive type by others); threaded steel cap with 4” (102 mm) [dia.] [square] stainless steel screen frame adapter stub and 3/8” (9 mm) s.s. retaining bolt; galvanized to CSA 164-M1992; manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing and EPDM Base Seal [and] [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

THALER
1.800.576.1200 WEB: www.thalermetal.com EMAIL: info@thalermetal.com
**ARS-500 ACCESS LADDER ROOF SUPPORTS**

**DESCRIPTION:**
Thaler ARS-500 Access Ladder Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, adapter lugs for mounting a vertical metal ladder (by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

**PROMENENT FEATURES:**
Condensation free. Maintenance free (never needs caulking).

**OPTIONS:**
PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane.

**RECOMMENDED USE:**
Suitable for all flat roofs as an access ladder roof support.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Access ladder roof support: Thaler ARS-500 epoxy coated, urethane insulated hollow steel support including appropriate fastening to structural roof deck (adhesive type by others); threaded steel cap with ladder lugs suitable for receiving 1/2” (13 mm) thickness steel ladder side rails; 3/8” (9 mm) s.s. retaining bolts; galvanizing to CSA G164-M1992; manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing and EPDM Base Seal [and PVC coat deck flange] (bituminous painted deck flange); manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-800-576-1200 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**
“Installation Instructions” are provided with every Thaler product. Essentially, the Thaler ARS-500 Roof support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/adapter lugs, mechanically attaching the metal ladder, and as follows:

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

**ModBit:** Torch membrane until bitumen is fluid and set flashing deck flange into fluid. Flash in flange with 2 overlapping layers of ModBit and seal with asphalt sealer. Do not overheat (melt) EPDM Base Seal.

**Single Ply:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g. ARS-500-A-P; weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Access Ladder Components:** Thread upper portion of support (with lug) onto lower support leg and mechanically attach ladder by bolting into place.

**Ordering and Availability:** Specify flashing material required by adding appropriate suffix to order number e.g. ARS-500-A, for aluminum, etc.

Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.
ARS-510, 510-1, 510-2 METAL STAIR ROOF SUPPORTS
(Standard Stringer)

DESCRIPTION:
Thaler ARS-510 Series of Metal Stair Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, (adhesive fasteners supplied by others), adjustable height (galvanized optional) steel cap and stringer, designed to receive a standard, metal stair stringer (by others). Unless otherwise specified or noted on drawings, a stringer bracket will be provided for 45° stringer. A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly. Three models are available to suit different structural and/or size requirements.

PROFANTIMES FEATURES:
Condensation free. Maintenance free (never needs caulking). Threaded leg assembly provides up to 2" (51 mm) vertical adjustment for leveling if necessary.

OPTIONS:
Stringer adapter ductile bracket angle as desired (note: unless specified otherwise, a 45° angle will be provided). PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane. Can be combined for use with ARS-100A floating walkway roof support or ARS-102A fire route walkway roof support.

RECOMMENDED USE:
Suitable for all flat roofs as a metal stair roof support at changes in roof level or other areas to facilitate access for maintenance, fire route or similar applications.

WARRANTY:
20 year warranty against leaks, condensation and 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).

SPECIFICATION (SHORT FORM):
Metal stair roof supports: Thaler [ARS-510] [ARS-510-1] [ARS-510-2] adjustable height, epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive fasteners supplied by others) for fastening to structural roof deck and (galvanized optional) steel cap (galvanized to CSA G164-M1992) and designed for affixing steel stair (by others) for fastening to structural roof deck and (galvanized optional) steel cap (galvanized to CSA G164-M1992) and designed for affixing steel stair (by others); manufacturer’s standard urethane insulated (.032" (0.831 mm) 24 oz. copper). (.031" (0.79 mm) 22 ga. copper) (.064" (1.6 mm) mill finish 1100-0T alloy aluminum)

INSTALLATION:
“Installation Instructions” are provided with every Thaler product. Essentially, the Thaler ARS-510 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/stringer adapter, and as follows:

BUR: Set flashing deck flange in layer of plastic cement and fasten in 3 overlapping layers of felt flashing.

ModBit: 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: Set flashing deck flange in layer of membrane adhesive and extend single ply up to roof and fastening then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g. ARS-510-A-P, weld roofing to deck flange using PVC torch.

Precautions: Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2" (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

Stringer Components: Thread upper portion of support (with stringer adapter deltoid bracket) onto lower support cap and mechanically attach stringer (by others) using the 1/2" (12 mm) stainless steel bolts provided.

Ordering and Availability: Specify flashing material required by adding appropriate suffix to model number e.g. ARS-510-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.
ARS-520, 520-1, 520-2 METAL STAIR ROOF SUPPORT (Offset Stringer)

**INSTALLATION:**

"Installation Instructions" are provided with every Thaler product. Essentially, the Thaler ARS-520 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/stringer connector angle, and as follows:

**BUR:** Set flashing deck flange in layer of plastic cement and flush in with 3 overlapping layers of felt flashing.

**ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g. ARS-520-P; weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2" (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Stringer Components:** Thread upper portion of support (with stringer connector angle) onto lower support leg and mechanically attach stringer (by others), using 3/8 (10 mm) stainless steel bolts provided.

**Ordering and Availability:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-520-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**DESCRIPTION:**

Thaler ARS-520 selection of Metal Stair Roof Supports consist of a urethane insulated, epoxy primed, hollow steel support and mounting plate, mounting hardware (adhesive fasteners supplied by others) adjustable height steel cap and stainless steel stringer connector angle designed to receive an offset, channel shaped stringer (by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly. Three models are available to suit different structural and/or size requirements.

**PROMPT FEATURES:**

Condensation free. Maintenance free (never needs caulking). Threaded leg assembly provides up to 2" (51 mm) vertical adjustment for leveling if necessary.

**OPTIONS:**

PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane. Can be combined for use with ARS-102A floating walkway rail roof support or ARS-102A fire route walkway rail roof support. See ARS-510 for alternative metal stair support (Standard Stringer).

**RECOMMENDED USE:**

Suitable for all flat roofs as a metal stair roof support at changes in roof level or other areas to facilitate access for maintenance.

**WARRANTY:**

20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**

Metal stair roof supports (offset stringer): Thaler ARS-520 [ARS-520] [ARS-520-1] [ARS-520-2] adjustable height, epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive fasteners supplied by others) for fastening to structural roof deck and steel cap/s.s. connector angle designed for affixing steel stair (by others) using s.s. bolts provided; manufacturer’s standard urethane insulated [0.064" (1.6 mm) mill finish 1100-0T alloy aluminum] [0.032" (0.831 mm) 24 oz. copper] [0.031" (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal and [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.
**DESCRIPTION:**

Thaler ARS-530 selection of Metal Stair Roof Support consist of a urethane insulated, epoxy primed hollow steel support. Adjustable height steel cap and platform adapter plate designed to receive a steel channel and platform grate (by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly. Three models are available to suit different structural and/or size requirements.

**PRONOMENT FEATURES:**

Condensation free. Maintenance free (never needs caulking). Threaded leg assembly provides up to 2” (51 mm) vertical adjustment for leveling if necessary.

**OPTIONS:**

PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane. Can be combined for use with ARS-100A floating walkway rail roof support, ARS-102A fire route walkway rail roof support, ARS-510 (Standard Stringer) and ARS-520 (Offset Stringer) roof support.

**RECOMMENDED USE:**

Suitable for all flat roofs as a stair platform support and other areas to facilitate access for maintenance.

**WARRANTY:**

20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**

Stair platform roof supports: Thaler [ARS-530] [ARS-530-1] [ARS-530-2] adjustable height epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive fasteners supplied by others) for fastening to structural roof deck and cap/platform adapter plate designed for affixing steel platform channel and grate (by others) using 1/2” (12 mm) s.s. bolts provided; manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.532” (.831 mm) 24 oz. copper] [.031” (.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal (and) [PVC coated deck flange] (bituminous painted deck flange); manufactured by Thaler Metal Industries, 1-800-387-7217 (Mississauga, Ontario, Canada) or 1-860-576-1200 (New Brunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**FOR SUPPORTS OTHER THAN STANDARD 14” (356 mm) HEIGHT, ADD SUFFIX “NS” TO MODEL NUMBER I.E. ARS-530-2NS**

**SPECIFICATIONS**

**Model Number**
- ARS-530
- ARS-530-1
- ARS-530-2

**Description**
- Stair platform roof support

**Installation Instructions**

- Thaler ARS-530 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/platform adapter plate, and as follows:
  - BUR: Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.
  - ModBit: Torched 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 overtack (metal) EPDM Base Seal.
  - Single Ply: Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g. ARS-530-A-P: weld roofing to deck flange using PVC torch.

**Precautions**

- Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Platform Components**
- Thread upper portion of support (with platform adapter plate) onto lower support leg and mechanically attach platform channels and metal grate (by others), using 1/2” (12 mm) stainless steel bolts provided.

**Ordering and Availability**
- Specify flashing material required by adding appropriate suffix to model number e.g. ARS-530-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**Disclaimer:**

Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

**Contact Information:**
- CANADA: 1.800.387.7217
- U.S.: 1.800.576.1200
- WEB: www.thalermetal.com
- EMAIL: info@thalermetal.com

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**Diagram Description:**

- Platform Channel (by Others)
- Stack Jack Flashing Urethane Insulated 12” (305 mm) High Sleeve (Aluminum, Copper or Stainless Steel)
- Inverted Roofing Illustrated (BUR)
- Conventional Roofing Illustrated (BUR)
- Concrete Deck
- Steel Deck
Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

**INSTALLATION:**

“All installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-540 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/connector angle support, and as follows:

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

**ModBit:** 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 seal. Do not overheat (melting EPDM Base Seal).

**Single Ply:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: For PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to model number e.g. ARS-540-A-P; weld flashing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Angle/Equipment Components:** Thread upper portion of support (with angle connector) onto lower support leg, mechanically attach steel cross rails or other devices (by others) as desired using 1/2” (12 mm) stainless steel bolts provided.

**Ordering and Availability:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-540-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**RECOMMENDED USE:** Suitable for all flat roofs as a roof support for platforms, pipes and duct supports, and any one of a host of miscellaneous rooftop items.

**WARRANTY:**

20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):** [Platform] roof supports: Thaler [ARS-540] [ARS-540-1] [ARS-540-2] adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive fasteners supplied by others) for fastening to structural roof deck and cap/angle connector designed for affixing equipment or items (by others) shown on drawings; manufacturer’s standard urethane insulated [0.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [0.032” (0.831 mm) 24 oz. copper] [0.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal and/or [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.
Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

**Installation Instructions**

“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-550 selection of supports are installed in accordance with Thaler “Installation Instructions”. Copy of Warranty Certificate available upon request.

**Maintenance**

No maintenance required (maintenance free).

**Specification (Short Form):**

[Chiller] roof supports: Thaler [ARS-550] [ARS-550-1] [ARS-550-2] adjustable height, epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive fasteners supplied by others) for fastening to structural roof deck, and cap/plate assembly designed for affixing equipment or items (by others) shown on drawings; manufacturer’s standard urethane insulated, [0.64” (16 mm)] mill finish 1100-0T alloy aluminum, [0.032” (0.831 mm) 24 oz. copper] [0.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal and [PVC coated deck flange] (bituminous painted deck flange); manufactured by Thaler Metal Industries 1-800-387-9727 (Mississauga, Ontario, Canada) or 1-800-576-1200 (New Braford, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**Recommendation:** Suitable for all flat roofs as a support for heavy rooftop equipment e.g.: chiller, A/C unit or similar applications.

**Warranty:**

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

**Prominent Features:**

Condensation free, Maintenance free (never needs caulking). Threaded leg assembly provides up to 2” (51 mm) vertical adjustment for levelling if necessary.

**Options:**

PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane.

**Description:**

Thaler ARS-550 Miscellaneous Plate Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, mounting hardware (adhesive fasteners supplied by others), adjustable height (galvanized optional) steel cap and epoxy primed steel plate designed to receive any one of a number of miscellaneous rooftop items (by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly. Three models are available to suit different structural and/or size requirements.
Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

**ARS-575 TRIANGULAR ANTENNA ROOF SUPPORT**

**DESCRIPTION:**
Thaler ARS-575 Triangular Antenna Roof Support consists of a urethane insulated, epoxy primed, hollow steel support and mounting plate, mounting hardware (adhesive fasteners supplied by others), adjustable height (galvanized optional) steel cap and epoxy primed antenna base designed to receive a standard 15” (381 mm) size triangular antenna (by others). A urethane insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

**PROMINENT FEATURES:**
- Condensation free. Maintenance free (never needs caulking). Threaded leg assembly provides up to 2” (51 mm) vertical adjustment for levelling if necessary.

**RECOMMENDED USE:**
Suitable for all flat roofs as a triangular antenna support.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Triangular antenna roof support: Thaler [ARS-575] adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive fasteners supplied by others) to structural roof deck and (galvanized optional) steel cap/antenna base (galvanized to CSA G164-M1992) designed for affixing antenna (by others); manufacturer’s standard urethane insulated [.064”(1.6 mm) mill finish 1100-0T alloy aluminum] [.032”(0.831mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal and [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**
“Installation instructions” are provided with every Thaler product. Essentially, the Thaler ARS-575 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the steel cap/antenna base, and as follows:

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

**ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to end of model number e.g. ARS-575-A-P; weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Base/Antenna Components:** Thread upper portion of support (with triangular base) onto lower support leg, mechanically attach antenna (by others) and brace with guy wires.

**Ordering and Availability:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-575-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.
Thaler ARS-590 Multiple Satellite Dish Supports consist of a pair of round, urethane insulated, hollow section 6061-T6 aluminum supports with threaded leg assembly for vertical adjustment and mounting plate, mounting hardware (adhesive fasteners supplied by others), cross-bar carrier with EPDM end caps, and any multiple of satellite dish anchor plate assemblies. Urethane insulated STACK JACK flashings available in aluminum, copper, or stainless steel, with EPDM Triple Pressure Grommet Seal at the top of the flashing and EPDM Base Seal, complete the supports.

**SUPPORT SPACING:**
To be determined by structural engineer for safe loading.

**PROMINENT FEATURES:**
Threaded leg assembly provides up to 4” (102 mm) vertical adjustment. Light weight, strong-as-steel and non corrosive. Maintenance free (EPDM flashing seals never need caulking. See Thaler EPDM Flashing Seals literature).

**OPTIONS:**
See Section A of manual for STACK JACK Flashing options. See ARS-122 Satellite Dish Roof Supports for single satellite dish support.

**RECOMMENDED USE:**
Suitable for all flat roofs as a multiple satellite dish support (two or more dishes). Ultimate bearing load is 7350 lbs. (3334 kg) per leg; apply appropriate safety factor.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Multiple satellite dish roof supports: Thaler ARS-590 adjustable height 6061-T6 hollow aluminum with mill finish, urethane insulated supports, 2” (51 mm) dia., with appropriate hardware (adhesive fasteners by others) for fastening to structural roof deck, aluminum cross-bar carrier with EPDM end caps, aluminum anchor plates; [SJ-34, 7” (178 mm)] high New-Standard STACK JACK flashing, urethane insulated, consisting of [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel], 2” (51 mm) dia. to CSA B272-93; with EPDM Triple Pressure Grommet Seal and EPDM Base Seal [and] [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 (New Braunfels, TX), installed as per manufacturer’s written instructions. Provide 20 year warranty against leaks, condensation and defects in materials and/or manufacture.

**INSTALLATION:**

“Installation Instructions” are provided with every Thaler product. Essentially, the Thaler ARS-590 Satellite Dish Roof Supports are installed at required centres by fastening the aluminum mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, installing the cross-bar carrier assembly, and as follows:

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

**ModBit:** 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:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to STACK JACK Flashing. Note: for PVC membrane, specify PVC coated aluminum, etc. STACK JACK by adding suffix P to model number, e.g. ARS-590-A-P; weld roofing to deck flange using PVC torch.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum STACK JACK Flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Cross-Bar Carrier Assembly:** Thread hollow aluminum upper supports onto lower support legs, install cross-bar carrier and anchor plate assemblies, place satellite dishes onto plate assemblies and secure using dish fastening brackets (by others).

**Ordering and Availability:** Specify flashing material required by adding appropriate suffix to model number e.g. ARS-590-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most product are readily available from stock.
SATELLITE DISH AND FASTENING BRACKETS (BY OTHERS)

1/4" x 5" x 7" (6 mm x 127 mm x 178 mm) ALUMINUM ANCHOR PLATE

FOUR, 1/4" (6 mm) S.S. BOLTS

T-185 SLIDER

T-150 SUPPORT BEAM

S.S. SCREWS

THALER SJ-34 STACKJACK FLASHING (UNINSULATED)

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

ALTERNATIVE FASTENING METHODS

T1 Bolt Through

T2 Adhesive Bolts

T3 Weldment

T4 Bolt Around Beam

T5 OWSJ J Bolt

Specify the fastening method required by adding the appropriate suffix to model number e.g. ARS-590 (T1) T5

ARS-590 MULTIPLE SATELLITE DISH SUPPORT (SECTION “A”)
**INSTALLATION:**

“Installation Instructions” are provided with every Thaler product. Essentially, the Thaler ARS-600 Roof Support is installed by fastening the mounting plate to the structural roof deck, placing the flashing sleeve over the support and roof membrane, and assembling the arm/cross tube sections. The large cross beam tubes at the top of the snow guards are notched for locking into the post head holders to form an insulated flashing, available in aluminum, copper, or stainless steel, with EPDM Base Seal, completes the assembly.

**Single Ply:** Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to top of metal flashing and then screw cap down over single ply. Note: for PVC membrane, specify PVC coated aluminum, etc. flashing deck flange by adding suffix P to model number e.g., ARS-600-P.

**Precautions:** Apply an asphaltic or other type protective coating to aluminum STACK JACK. Flashing to a height of 2” (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Location of Snow Guards:** The distance from the eave or outside wall to snow guards is to be determined by the project architect or structural engineer based upon roof slope and snow loads.

**Ordering and Availability:** Specify flashing material required by adding appropriate suffix to model number e.g., ARS-600-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.
PLAN VIEW OF SNOW GUARD

Long View of Snow Guard

Close-Up View of Assembled Post Support
**ARS-680 CROSS-OVER STAIR & ROOF SUPPORTS**

**DESCRIPTION:**
Thaler ARS-680 Cross-Over Stair & Roof Supports consist of an all-aluminum stair, walkway platform and safety rail system supported on urethane insulated adjustable aluminum legs. A urethane insulated flashing available in aluminum, copper or stainless steel, with EPDM Base Seal, completes the assembly.

**HEIGHT, LENGTH AND WIDTH:**
Walkway platform height is available up to 6’-0” (1830 mm) height; consult Thaler if higher platform is required. Standard platform length ranges from 3’-0” to 20’-0” (915 mm to 6096 mm) in any increment, and width is 40” (1016 mm) from centre to centre of the aluminum stringers.

**PROMAINE FEATURES:**
Supplied as complete product for easy site assembly. Skidproof treads and walkway. Insulated supports are condensation free (no corrosion). Maintenance free (flashings never need caulking). Threaded leg assembly provides up to 4” (102 mm) vertical adjustment for levelling if necessary.

**OPTIONS:**
Flashing material (see Thaler STACK JACK Flashing literature), PVC coated flashing deck flange for PVC roof membrane. Bituminous painted flashing deck flange for BUR and ModBit roof membrane. Can be combined with ARS-100A Floating Walkway Roof Supports, ARS-102A Fire Route Walkway Roof Supports, and ARS-115 Rail Post Roof Supports.

**RECOMMENDED USE:**
Suitable for all flat roofs for safely crossing over large pathway obstructions such as ductwork or other mechanical equipment, changes in roof level, skylights, roof walls, penthouse enclosures, and similar impediments.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Cross-Over stair and roof supports: Thaler ARS-680 all 6061-T6 mill finish aluminum cross-over stair of size shown on drawings, with adjustable height hollow aluminum, urethane insulated supports, 2” (51 mm) dia., with appropriate hardware for fastening to structural roof deck (adhesive fasteners by others), 3-3/4” x 3-3/4” x 1/4” (95 mm x 95 mm x 6 mm) alum, stringer/platform support beams; 1/8” x 1-1/2” x 9” x 3-0” (3 mm x 38 mm x 229 mm x 915 mm) alum, treads [screwed] [welded] [taped]; 1-1/2” (38 mm) dia.,  Schedule 40 pipe rail; 3-3/4” (95 mm) steel, with EPDM Base Seal, completes the assembly.

**INSTALLATION:**
“Installation Instructions” are provided with every Thaler product. Essentially, the Thaler ARS-680 Cross-Over Stair is installed by fastening the roof supports to the structural roof deck, placing the flashing sleeve over the supports, securing the stringer/platform support beams to the roof supports, attaching the stair and walkway treads using the screws provided (Note: factory welded treads are optional), mechanically assembling the railings, and as follows:

* Bur: Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.
* ModBit: 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: Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to STACK JACK Flashing. Note: for PVC membrane, specify PVC coated aluminum, etc. STACK JACK by adding suffix P to the end of model number, e.g. ARS-680-A-P; weld roofing to deck flange using PVC torch.

* Ordering and Availability: Specify flashing material required by adding appropriate suffix to model number e.g. ARS-680-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

Thaler ARS-680 Cross-Over Stair & Roof Supports are condensation free (no corrosion). Maintenance free (flashings never need caulking). Threaded leg assembly provides up to 4” (102 mm) vertical adjustment for levelling if necessary.

**MAINTENANCE:**
No maintenance required (maintenance free).

**SPECIFICATION (SHORT FORM):**
Cross-Over stair and roof supports: Thaler ARS-680 all 6061-T6 mill finish aluminum cross-over stair of size shown on drawings, with adjustable height hollow aluminum, urethane insulated supports, 2” (51 mm) dia., with appropriate hardware for fastening to structural roof deck (adhesive fasteners by others), 3-3/4” x 3-3/4” x 1/4” (95 mm x 95 mm x 6 mm) alum, stringer/platform support beams; 1/8” x 1-1/2” x 9” x 3-0” (3 mm x 38 mm x 229 mm x 915 mm) alum, treads [screwed] [welded] [taped]; 1-1/2” (38 mm) dia.,  Schedule 40 pipe rail; 3-3/4” (95 mm) steel, with EPDM Base Seal, completes the assembly.

**E-21**
Specify fastening method required by adding appropriate suffix to model number (e.g. MERS-680-A-T1)
Thaler ARS-685 Tilt-Up Ladder & Roof Supports

**DESCRIPTION:**
Thaler ARS-685 Tilt-Up Ladder & Roof Supports consists of a bottom hinged aluminum ladder supported on two adjustable aluminum roof supports when in the upright 60° position, and on a third roof support in the horizontal storage position. A urethane insulated flashing available in aluminum, copper or stainless steel, with EPDM Base Seal, completes the assembly.

**LADDER HEIGHT AND WIDTH:**
Height is variable to any specified dimensions up to 25'-0" or 30'-0" (7.6 m to 9.1m) approximately. Standard rung width is 18" (457 mm).

**PROMINENT FEATURES:**
Super-easy to use; tilts up into service position using stainless steel hinge pin with top of ladder resting against wall or other surface and tilt down into horizontal storage position “hidden” from view. Non-corrosive, durable fabrication including insulated supports which are condensation free. Maintenance free (flashing never needs caulk). Threaded support leg assemblies provide up to 4" (102 mm) vertical adjustment for leveling if necessary. Ladder is easily separated from roof supports by removing the two cotter pins, for re-roofing, etc. if desired.

**OPTIONS:**
Flashing material (see Thaler STACK JACK Flashing literature), PVC coated flashing deck flange for BUR and ModBit roof membrane.

**RECOMMENDED USE:**
Suitable for all flat roofs for access to penthouse and mechanical room roofs, the top of saw tooth roofs, high catwalks, chimneys, cooling towers and similar applications wherever occasional access is required for maintenance.

**WARRANTY:**
20 year warranty against leaks, condensation and 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).

**SPECIFICATION (SHORT FORM):**
Tilt-Up access ladder and roof supports: Thaler ARS-685 mill finish 6061-T6 aluminum ladder [ length of length as shown on the drawing], with rubber ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**INSTALLATION:**
“Installation Instructions” are provided with every Thaler product. Essentially, the Thaler ARS-685 Tilt-Up Ladder & Roof Supports are installed at the required location(s) by fastening each of the three roof support mounting plates to the structural roof deck, placing the flashing sleeve over the support and roof membrane, attaching the ladder using the stainless steel hinge pin and cotter pins, and as follows:

**BURN**
Set flashing deck flange in layer of plastic cement and flash in with 3 overlapping layers of felt flashing.

**ModBit**
Torch membrane until bitumen is fluid and set flashing deck flange into fluid. Flash in flange with 2 overlapping layers of ModBit and seal with asphalt sealer. Do not overheat (melt) EPDM Base Seal.

**Single Ply**
Set flashing deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to STACK JACK Flashing. Note: for PVC membrane, specify PVC coated aluminum, etc. STACK JACK by adding the suffix P to model number, e.g. ARS-685-A-P; weld roofing deck flange using PVC torch.

**Precautions:**
Apply an asphaltic or other type protective coating to aluminum STACK JACK. Flashing to a height of 2" (51 mm) above a limestone ballast to avoid corrosive reaction. Also, if coating deck flange with a bituminous paint on site, allow 24 hours for drying before applying roof membrane.

**Ladder Position:**
Locate the two ladder roof supports so that a roughly 60° angle is created between the bottom of the ladder and the top portion of the ladder resting against the penthouse eave or other terminal point. Ensure adequate ladder length to provide 24’ (610 mm) of ladder above the resting point e.g. eave, for safely getting off and on the top of the Ladder Locate third roof support to co-inside with top rung of ladder when in the horizontal storage position.

**Ordering:**
Specify flashing material required by adding appropriate suffix to model number e.g. ARS-685-A, for aluminum, etc. Available throughout North America. Contact Thaler for list of distributors and current cost information. Most products are readily available from stock.

**E-22**
TWO 1/2" (13 mm) S.S. "J" BOLTS USED TO SECURE SUPPORT TO OWSJ

EPDM BASE SEAL BONDED TO METAL SLEEVE

END RUNG RESTS IN ALUMINUM CRADLE WHEN IN STORAGE POSITION

ALTERNATIVE FASTENING METHODS

**T1**
Bolt Through Slab

**T2**
Adhesive Bolts

**T3**
Weldment

**T4**
Bolt Around Beam

**T5**
OWSJ J Bolt

Specify fastening method required by adding appropriate suffix to model number (e.g. MERS-685-A-T5)
Note: This architectural roof support 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. Architectural roof supports
   2. Performed metal flashings

1.02 RELATED SECTIONS

A. Section 03300 - Cast-in-place Concrete
B. Section 05210 - Steel Joists
C. Section 05300 - Metal Deck
D. Section 06100 - Rough Carpentry
E. Section 07200 - Thermal Protection
F. Section 07500 - Membrane Roofing
G. Section 07900 - Joint Sealers

1.03 REFERENCES

A. The work of this Section to conform to:

Canadian

Note: CSA standard is applicable only to those Thaler products supplied with EPDM Triple Pressure Grommet Seal and/or EPDM Base Seal.

1. CSA B272-93 - Prefabricated Self-Sealing Roof Vent Flashings.
2. CRCA (Canadian Roofing Contractor’s Association).
3. SPRI (Single Ply Roofing Institute).
4. CUFCA (Canadian Urethane Foam Contractor’s Association) and CGSB-51-GP-46MP, Manual for “Installers of Spray Polyurethane Foam Thermal Insulation”.
U.S.

B. The work of this Section to conform to:
   1. NRCA (National Roofing Contractor’s Association).
   2. ASTM C1029-90 “Spray Applied Rigid Cellular Polyurethane Thermal Insulation”.
   3. ASTM D 3963/M-87 (Structural Specifications for Epoxy Coated Reinforcing Steel).
   4. ASTM A36 (Non-Exposed Structural Components).
   6. ASTM Z235 (Bolts, Nuts and Washers) or Type 304 stainless steel.

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].

1.05 QUALITY ASSURANCE
   A. Roof accessories manufacturers 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, condensation 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 (New Braunfels, TX) or provide equal products by another manufacturer approved in advance by the [Architect], based upon:
      1. 20 year warranty against leaks, condensation and defects in materials and/or manufacture, as applicable;
      2. compliance with CSA B272-93 (Prefabricated Self-Sealing Roof Vent Flashings);
      3. air barrier design using EPDM seals only;
      4. maintenance free design;
      5. materials and sizes options, and thickness;
      6. injection molded urethane insulation to CGSB-51-GP 46MP and ASTM C1029-90, as applicable;
      7. treated flashing deck flange, as applicable;
      8. written installation instructions.
2.02  MANUFACTURED UNITS

Note: Delete clauses not applicable.

**Floating Walkway Roof Supports**

Rigid conduit flashing: Thaler ARS-100A adjustable height aluminum, mill finish, urethane insulated supports, 2” (51 mm) dia., including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck; with standard 42” (1066 mm) high 1-1/2” (38 mm) dia., mill finish Schedule 40 6061-T6 alloy aluminum pipe rails; access gates with manufacturer’s standard hardware; optional hot dipped galvanized chain link fence, 2” (51 mm) x 9 ga.; aluminum support beams for walkway surface (walkway by others); SJ-34, 7” (178 mm) high New-Standard STACK JACK flashing (Uninsulated) consisting of .064” (1.6 mm) mill finish 1100-OT alloy aluminum, .032” (0.831 mm) 24 oz. copper, .031” (0.79 mm) 22 ga. Type 304 stainless steel, 2” (51 mm) dia. to CSA B272-93 with EPDM Triple Pressure Grommet Seal and EPDM Base Seal [and] PVC coated deck flange [bituminous painted deck flange].

**Fire Route Walkway Roof Supports**

Fire Route Walkway Roof Supports: Thaler ARS-102A mill finish 2” (51 mm) dia. aluminum supports [urethane insulated] including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck; with standard 42” (1066 mm) high 1-1/2” (38 mm) dia., mill finish Schedule 40 6061-T6 alloy aluminum pipe rail; access gates with manufacturer’s standard hardware; optional hot dipped galvanized chain link fence, 2” (51 mm) x 9 ga.; SJ-34, 7” (178 mm) high New-Standard STACK JACK flashing (Uninsulated) consisting of .064” (1.6 mm) mill finish 1100-OT alloy aluminum, .032” (0.831 mm) 24 oz. copper, .031” (0.79 mm) 22 ga. Type 304 stainless steel, 2” (51 mm) dia., to CSA B272-93 with EPDM Triple Pressure Grommet Seal and EPDM Base Seal [and] PVC coated deck flange [bituminous painted deck flange].

**Rail Post Roof Supports**

Rail Post Roof Supports: Thaler ARS-115 standard 14” (356 mm) high adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck and galvanized steel cap to CSA G164-M1992 and designed for affixing 1-1/2” x 1-1/2” (38 mm x 38 mm) rail posts (by others); manufacturer’s standard urethane insulated .064” (1.6 mm) mill finish 1100-OT alloy aluminum, .032” (0.831 mm) 24 oz. copper, .031” (0.79 mm) 22 ga. Type 304 stainless steel flashing with EPDM Base Seal [and] PVC coated deck flange [bituminous painted deck flange].

**Satellite Dish Roof Supports**

Satellite Dish Roof Supports: Thaler ARS-122 standard 14” (356 mm) high epoxy coated, urethane insulated hollow steel support including appropriate mounting hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck; epoxy coated threaded steel cap with 4” (102 mm) dia. s.s. mast adapter stub (by others); 8’-0” (1220 mm) long x 4” (102 mm) I.D. closed end, hot dipped galvanized steel mast with 1/2” (12 mm) s.s. retaining bolt; galvanized to CSA G164-M1992; weatherproof 1/2” (12 mm) lock-bolt with EPDM seal to prevent counter-rotation of support and dish; manufacturer’s standard urethane insulated .064” (1.6 mm) mill finish 1100-OT alloy aluminum, .032” (0.831 mm) 24 oz. copper, .031” (0.79 mm) 22 ga. Type 304 stainless steel flashing with EPDM Base Seal [and] PVC coated deck flange [bituminous painted deck flange].

**Antenna Roof Supports**

Antenna Roof Supports: Thaler ARS-133 standard 14” (356 mm) high epoxy coated, urethane insulated hollow steel support including appropriate mounting hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck; galvanized threaded steel cap with 2” (51 mm) dia. s.s. mast adapter stub and 8’-0” (1220 mm) long x 2” (51 mm) I.D. closed end, hot dipped galvanized steel mast (by others) with 1/2” (12 mm) lock-bolt with EPDM seal to prevent counter-rotation of support; manufacturer’s standard urethane insulated .064” (1.6 mm) mill finish 1100-OT alloy aluminum, .032” (0.831 mm) 24 oz. copper, .031” (0.79 mm) 22 ga. Type 304 stainless steel flashing and EPDM Base Seal [and] PVC coated deck flange [bituminous painted deck flange].
Trellis Roof Support
Trellis Roof Support: Thaler ARS-200 standard 14” (356 mm) high adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck, and galvanized (optional) steel cap and post socket galvanized to CSA G164-M1992 and designed for affixing 4” x 4” (102 mm x 102 mm) wood trellis posts (by others); manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Trellis & Brace Roof Supports
Trellis & Brace Roof Supports: Thaler ARS-200 and ARS-210 standard 14” (356 mm) high adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck, and galvanized (optional) steel cap and post socket galvanized to CSA G164-M1992 and designed for affixing 4” x 4” (102 mm x 102 mm) wood trellis posts (by others); manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Guy Wire Roof Supports
Guy Wire Roof Supports: Thaler [ARS-300] [ARS-301] [ARS-302] [ARS-303] [ARS-304] standard 14” (356 mm) high epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck, and s.s. steel cap with galvanized eye for affixing guy wire (by others); manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Guy Wire Wall Supports
Guy Wire Wall Supports: Thaler [ARS-350] [ARS-350-1] [ARS-350-2] [ARS-350-3] [ARS-350-4], urethane insulated, galvanized hollow steel supports including appropriate hardware (adhesive type fasteners supplied by others) for fastening to wall structure and galvanized steel eye hot dipped galvanized to CSA G164-M1992 for affixing guy wire (by others).

Flag Pole or Rail Roof Supports
Flag pole or Rail Roof Supports: Thaler ARS-400 epoxy coated, urethane insulated hollow steel support, including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck; epoxy coated threaded steel cap with [2” (51 mm) dia. s.s. adapter stub] [with s.s. stub machined or tapered to receive 1 1/4” I.D. flag pole] and 3/8” (9 mm) s.s. retaining bolt; galvanizing to CSA G164-M1992; manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

A/C Unit Screen Roof Supports
A/C Unit Screen Roof Supports: Thaler ARS-450 epoxy coated, urethane insulated hollow steel support including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck; epoxy coated threaded steel cap with [4” (102 mm) dia. 4” (102 mm) square] stainless steel screen frame adapter stub and 3/8” (9 mm) s.s. retaining bolt; galvanizing to CSA G164-M1992; manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Access Ladder Roof Supports
Access Ladder Roof Supports: Thaler ARS-500 epoxy coated, urethane insulated hollow steel support including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck; epoxy coated threaded steel cap with ladder lugs suitable for receiving a 1/2” (13 mm) thickness steel ladder side rails; 3/8” (10 mm) s.s. retaining bolts; galvanizing to CSA G164-M1992; manufacturer’s standard urethane insulated [.064” (1.6 mm) mill finish 1100-0T alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].
ROOF SPECIALTIES
ARCHITECTURAL
ROOF SUPPORTS
SPECIFICATION

Metal Stair Roof Supports
Metal Stair Roof Supports (Standard Stringer): Thaler [ARS-510] [ARS-510-1] [ARS-510-2] adjustable height, epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck and epoxy coated (galvanized optional) steel cap to CSA G164-M1992 and designed for affixing steel stair (by others); manufacturer's standard urethane insulated [.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Metal Stair Roof Supports
Metal Stair Roof Supports (Offset Stringer): Thaler [ARS-520] [ARS-520-1] [ARS-520-2] adjustable height, epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck and steel cap/s.s. connector angle designed for affixing steel stair (by others) using 1/2” (12 mm) s.s. bolts provided; manufacturer's standard urethane insulated [.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Stair Platform Roof Supports
Stair Platform Roof Supports: Thaler [ARS-530] [ARS-530-1] [ARS-530-2] adjustable height, epoxy coated, urethane insulated hollow steel supports including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck and cap/platform adapter plate designed for affixing steel platform channel and grate (by others) using 1/2” (12 mm) s.s. bolts provided; manufacturer's standard urethane insulated [.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Upright Angle Roof Supports
Upright Angle Roof Supports: Thaler [ARS-540] [ARS-540-1] [ARS-540-2] adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck and cap/angle connector designed for affixing equipment or items (by others) shown on drawings; manufacturer's standard urethane insulated [.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Miscellaneous Plat Roof Supports
Miscellaneous Plate Roof Supports: Thaler [ARS-550] [ARS-550-1] [ARS-550-2] adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck and cap/plate assembly designed for affixing equipment or items (by others) shown on drawings; manufacturer's standard urethane insulated [.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

Triangular Antenna Roof Supports
Triangular Antenna Roof Supports: Thaler [ARS-575] adjustable height, epoxy coated, urethane insulated hollow steel supports, including appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck and epoxy coated steel cap/antenna base galvanized to CSA G164-M1992 designed for affixing antenna (by others); manufacturer's standard urethane insulated [.064” (1.6 mm) mill finish 1100-OT alloy aluminum] [.032” (0.831 mm) 24 oz. copper] [.031” (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].
Please be advised Thaler products may undergo improvements from time to time and are subject to change without notice.

**Multiple Satellite Dish Roof Supports**

*Multiple Satellite Dish Roof Supports*: Thaler ARS-590 adjustable height 6061-T6 hollow aluminum with mill finish, urethane insulated supports, 2" (51 mm) dia., with appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck, aluminum cross-bar carrier with EPDM end caps, dish aluminum anchor plates; [SJ-34, 7" (178 mm)] high New-Standard STACK JACK flashing, urethane insulated, consisting of [0.064" (1.6 mm) mill finish 1100-OT alloy aluminum], [0.032" (0.831 mm) 24 oz. copper], [0.031" (0.79 mm) 22 ga. Type 304 stainless steel], 2" (51 mm) dia. to CSA B272-93; with EPDM Triple Pressure Grommet Seal and EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

**Snow Guard Roof Supports (Galvanized)**

*Snow Guard Roof Supports (Galvanized)*: Thaler [ARS-600] urethane insulated hollow aluminum supports including appropriate hardware (adhesive fasteners supplied by others) for fastening to structural roof deck, aluminum cross beam tube locked into post holders, cast aluminum support arms, aluminum lower tubes bolted to arms; manufacturer’s standard urethane insulated [0.064" (1.6 mm) mill finish 1100-OT alloy aluminum], [0.032" (0.831 mm) 24 oz. copper], [0.031" (0.79 mm) 22 ga. Type 304 stainless steel] flashing with EPDM Base Seal [and] [PVC coated deck flange].

**Cross-Over Stair & Roof Supports**

*Cross-Over Stair & Roof Supports*: Thaler ARS-680 all 6061-T6 mill finish aluminum cross-over stair of size shown on drawings, with: adjustable height hollow alum., urethane insulated supports, 2" (51 mm) dia., with appropriate hardware (adhesive type fasteners supplied by others) for fastening to structural roof deck, 3" x 3" x 1/4" (76 mm x 76 mm x 6 mm) alum. beam frame [screwed] [welded] to angle supports, beams; aluminum planks fastened to aluminum support beam using specially designed bolts and seat washers; 1-1/2" (38 mm) dia. Schedule 40 pipe rail; [0.064" (1.6 mm) mill finish 1100-OT alum.], [0.032" (0.831 mm) 24 oz. copper], [0.031" (0.79 mm) 22 ga. Type 304 s.s.], [SJ-34, uninsulated] [SJ-37, insulated] flashing to CSA B272-93, with EPDM Triple Pressure Grommet Seal and EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

**Tilt-Up Access Ladder & Roof Supports**

*Tilt-Up Access Ladder & Roof Supports*: Thaler Ars-685 mill finish 6061-T6 aluminum ladder [______long] [of length as shown on drawings], with 1/2" x 2" (12 mm x 51 mm) side rails, 1-1/4" (32 mm) dia. tubular rungs 18" (457 mm) long of 1/4" (6 mm) wall thickness welded to side rails, and 3/4" (19 mm) dia. x 20" (508 mm) long s.s. hinge pin secured using two cotter pins; adjustable height hollow alum., urethane insulated supports with side rail adapter lugs, 2-1/2" (64 mm) dia., and with appropriate hardware (adhesive type fasteners sup-plied by others) for fastening to structural roof deck; [0.064" (1.6 mm) mill finish 1100-OT alum.], [0.032" (0.831 mm) 24 oz. copper], [0.031" (0.79 mm) 22 ga. Type 304 s.s.], [SJ-34, uninsulated] [SJ-37, insulated] flashing to CSA B272-93, with EPDM Triple Pressure Grommet Seal and EPDM Base Seal [and] [PVC coated deck flange] [bituminous painted deck flange].

**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.

3.02 **PREPARATION**

**Note: The Following clauses apply to retrofit installations only.**

A. For retrofit work, remove existing roof assembly as necessary to allow for installation of supports.

B. In the event of structural deficiencies, deck corrosion or deterioration, ensure that a structural engineer has assessed and approved all surfaces upon which the work of this Section depends. Institute repairs and/or reinforcement where necessary.

C. If necessary, protect building interior and contents against ingestion of water, dust, debris or other deleterious material,
3.03 INSTALLATION

Note: Delete clauses not applicable.

A. Roof Supports

1. Install supports in accordance with manufacturer’s printed instructions, shop drawings and as specified,
2. Ensure supports are installed under the direct supervision of a Professional Engineer and Roofing Consultant,
3. Where necessary, provide protection against deterioration due to contact of dissimilar materials.
4. Ensure work is inspected prior to application of roofing.

B. Flashing

1. Install roof support flashing 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 up sleeve to highest elevation possible and clamp membrane to STACK JACK Flashing.

Note: For PVC membrane, specify PVC coated flashing; weld roofing to deck flange using PVC torch.

PVC Single Ply
5. Set deck flange in layer of membrane adhesive and extend single ply up sleeve to highest elevation possible and clamp membrane to flashing. Weld roofing to deck flange using PVC torch.

3.04 FIELD QUALITY CONTROL

A. Comply with the requirements of Section [01400 - Quality Control].

3.05 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.

3.06 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