ROOF FLASHINGS &
ROOF ENTRY GLANDS

10 YEAR WARRANTY

COBALTSOLAR
ENERGY

**Leaders in Solar Component
Design and Manufacture**

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TILE ROOF ENTRY GLAND
Supersedes Tile Deck Tight

The patented Tile Roof Entry Gland has revolutionised the solar installation process. Gone are old-fashioned flashing-style deck tights.

- Save time & money
- Easier installation
- Durable EPDM rubber for water-tight seal
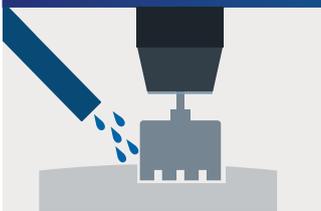- Long service life
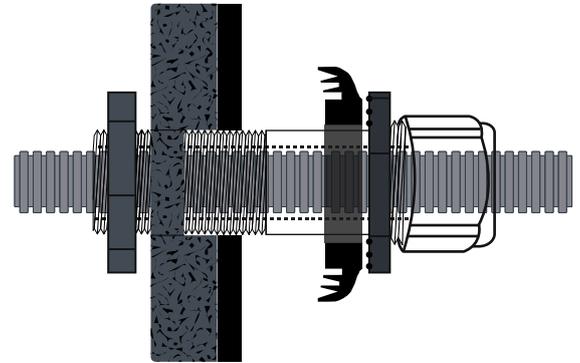
SIZE			PART NO.
○	**M**	M32 to Suit 25mm Conduit	CSE-REG-25

1. DRILL
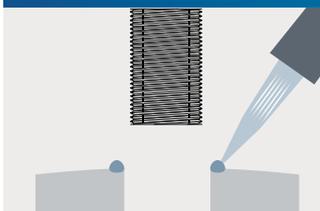32mm hole with wet diamond hole saw

Hole location
- Bottom ¼ of tile in the middle
- Ridge. If ridge too steep, use side of valley
- Do not block valley
- Ensure gland entry point avoids other tiles and framework
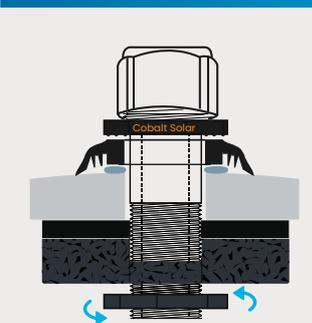
2. SQUEEZE
A bead of silicon sealant around hole

Sealant
- Select compatible sealant
- Apply small bead around entry hole
- Ensure bead is continuous

3. INSERT & LOCK
With wing nut and locking nut

Gland
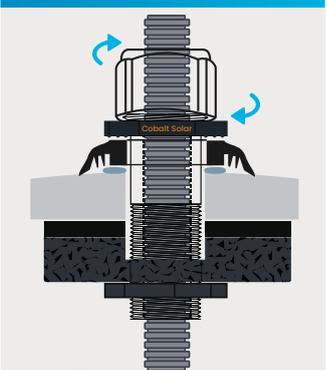- Insert gland
- Tighten locking nut to create seal

4. PUSH & SEAL
Insert Conduit all the way and tighten gland head

Conduit
- Insert conduit **through** gland
- Tighten gland head to seal

|							
V2 FIRE RATED	EPDM SEALS	**IP68** WATER PROOF	-40 ~ 100°C TEMP RANGE	THREAD LOCK	DESIGN FOR PV	**UV** STABILIZED	TIME SAVING

SOLAR MINI TIN ROOF ENTRY
Residential applications

These easy to install, compact entries are suited to a vast range of residential roof profiles.

- Suits common residential roof profiles
- No cutting required
- Increased rubber thickness
- Pre-drilled fixing holes for easy fitting
- Durable EPDM rubber for superior seal
- Does not protrude into valleys
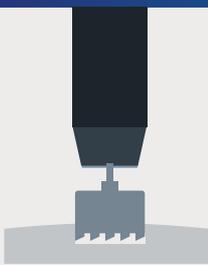- Long service life
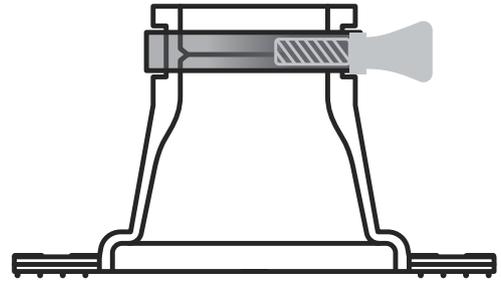
SIZE		PART NO.
M Suit 25mm Conduit		CSE-MRF-M25-TIN

1. DRILL & CLEAN
Drill with hole saw and clean area

Hole location
- Centre hole on ridge

2. SQUEEZE
Apply Sealant
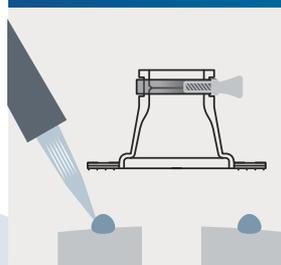
Sealant
- Select compatible sealant
- Apply sealant between roof and entry boot
- Ensure bead is continuous

3. FASTEN & SEAL
Screw or pop rivet and apply sealant

x 8

Fasteners & Sealant
- Use minimum 8 fasteners evenly spread
- Apply sealant over fastener heads to seal

4. INSERT & TIGHTEN
Insert conduit and tighten hose clamp

Tighten
- Insert conduit through entry boot and roof
- Tighten hose clamp to lock in place and seal

FIRE RATED	EPDM SEALS	WATER PROOF	−40 ~ 100˚C TEMP RANGE	DESIGN FOR PV	UV STABILIZED	TIME SAVING

IP66+

DEDICATED TIN ROOF ENTRY
Residential & Commercial applications

Cobalt Solar Tin Roof Entries are the ultimate time-saving product for residential and commercial applications.

- Suits a broad range of roof profiles
- No cutting required
- Pre-drilled fixing holes for easy fixing
- Increased rubber thickness
- Durable EPDM rubber for water-tight seal
- Long service life

SIZE			PART NO.
○	**M**	Suit 25mm Conduit	CSE-PRF-M25-TIN
○	**L**	Suit 32mm Conduit	CSE-PRF-M32-TIN

1. DRILL & CLEAN
Drill with hole saw and clean area
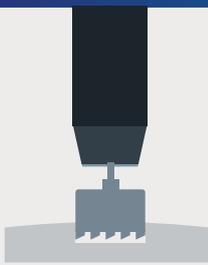
Hole location
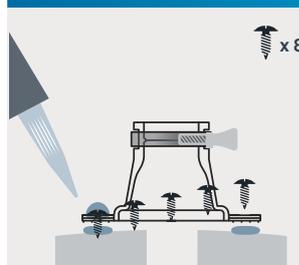- Centre hole on ridge if possible
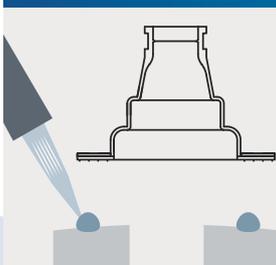
2. SQUEEZE
Apply Sealant

Sealant
- Select compatible sealant
- Apply sealant between roof and entry boot
- Ensure bead is continuous

3. FASTEN & SEAL
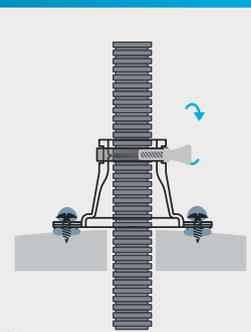Screw or pop rivet and apply sealant

x 8

Fasteners & Sealant
- Use minimum 8 fasteners evenly spread
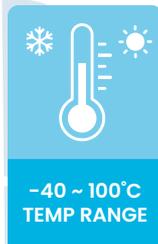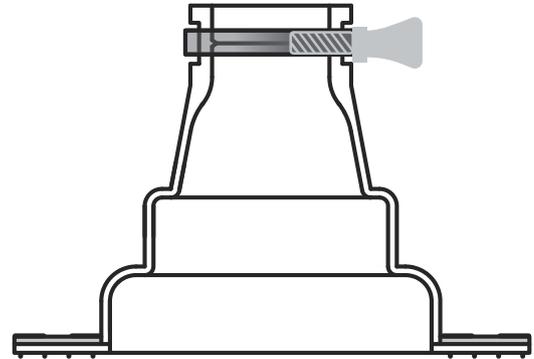- Apply sealant over fastener heads to seal

4. INSERT & TIGHTEN
Insert conduit and tighten hose clamp

Tighten
- Insert conduit through entry boot and roof
- Tighten hose clamp to lock in place and seal

FIRE RATED	EPDM SEALS	WATER PROOF (IP66+)	−40 ~ 100°C TEMP RANGE	DESIGN FOR PV	UV STABILIZED	TIME SAVING
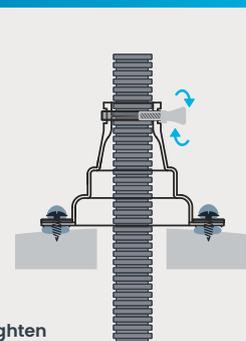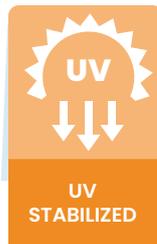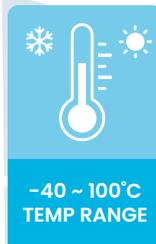
COMMERCIAL TIN ROOF ENTRY
Commercial applications | 32mm - 63mm

This dedicated corrugated conduit entry is engineered for larger commercial solar and rooftop plant installations.

• Suits a broad range of roof profiles
• Pre-drilled fixing holes for easy fixing
• Increased rubber thickness
• Durable EPDM rubber for water-tight seal
• Long service life
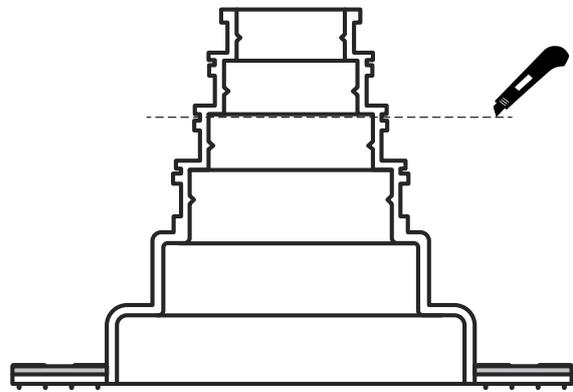
SIZE		PART NO.
XL Suit 32mm - 63mm Conduit		CSE-URF-M32-M63-TIN

1. DRILL & CLEAN
Drill with hole saw and clean area
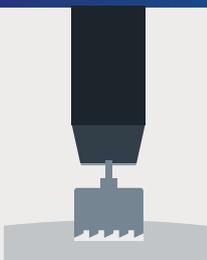
Hole location
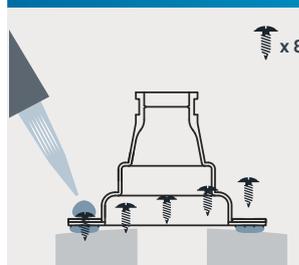• Locate hole on ridge if possible
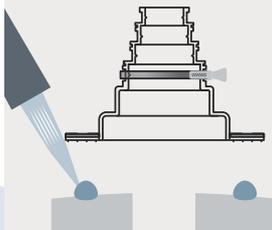
2. SQUEEZE
Apply Sealant

Sealant
• Select compatible sealant
• Apply sealant between roof and entry boot
• Ensure bead is continuous

3. FASTEN & SEAL
Screw or pop rivet and apply sealant

x 12
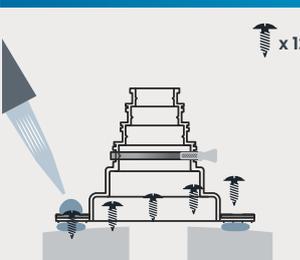
Fasteners & Sealant
• Use minimum 12 fasteners evenly spread
• Apply sealant over fastener heads to seal

4. TRIM INSERT & TIGHTEN
Select size, insert conduit and tighten hose clamp
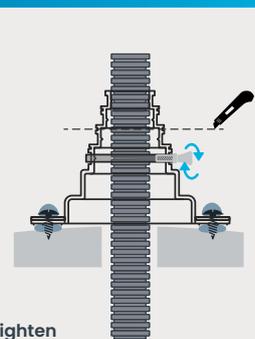
Tighten
• Trim entry boot at required step
• Insert conduit through entry boot and roof
• Tighten appropriate hose clamp to lock in place & seal

FIRE RATED	EPDM SEALS	IP66+ WATER PROOF	-40 ~ 100°C TEMP RANGE	DESIGN FOR PV	UV STABILIZED	TIME SAVING

TILE ROOF ENTRY GLAND

PART NUMBER	CSE-REG-25
TO SUIT	CORRUGATED CONDUIT
SIZE CONDUIT SUIT	25MM
CUT OUT HOLE SIZE	32-35MM ID
COLOUR	BLACK
IP RATING	IP66 & IP68
FIRE RATING	V2
TEMPERATURE RANGE	-40 TO +100C
UV PROTECTION	HIGH
WARRANTY	10 YEARS
REPLACEMENT SCHEDULE	AT 15 YEARS
BODY MATERIAL	HIGH UV NYLON
SEAL MATERIAL	EPDM RUBBER
SUITABLE FOR CONCRETE TILES	YES
SUITABLE FOR TERRACOTTA TILES	YES
THERMAL EXPANSION PROTECTION	YES
SEALENT REQUIRED BETWEEN ENTRY AND CONDUIT	NO
SEALANT REQUIRED BETWEEN ENTRY AND ROOF	YES
RECOMMENDED SEALANT	SOLAR RATED POLYURETHANE
COMPATIBLE WITH SILICON SEALANT	YES
COMPATIBLE FOR POLYURETHANE SEALANT	YES
LOCKING GLAND HEAD	YES
DIMENSIONS ABOVE ROOF SURFACE (D : H)	75MM : 60MM

NOTES

SOLAR TIN ROOF ENTRY

PART NUMBER	CSE-MRF-M25-TIN	CSE-PRF-M25-TIN	CSE-PRF-M32-TIN	CSE-URF-M32-M63-TIN
TO SUIT	CORRUGATED CONDUIT (RIGID CONDUIT CAN BE USED IN SOME SITUATIONS)			
SUIT CONDUIT SIZE	25MM	25MM	32MM	32MM, 40MM, 50MM OR 63MM
CUT HOLE SIZE	25MM ID	25+MM ID	32+MM ID	32 - 63+MM ID
COLOUR	BLACK			
IP RATING	IP66+			
TEMPERATURE RANGE	-40 TO +100C			
FIRE RATING	YES			
UV PROTECTION	HIGH			
WARRANTY	10 YEARS			
REPLACEMENT SCHEDULE	AT 15 YEARS			
SUITABLE ROOFING MATERIALS	COLOUR BOND, ZINC, GALVANISED, STAINLESS STEEL, TIN, COPPER, PAINTED METAL, OTHER METAL ROOFS			
SUITABLE ROOFING/CLADDING PROFILES	CUSTOM ORB 16 - 35, CORRUGATED, SPANDEK, TRIMDEK, SIP, METROSPAN, CORODEK, METRIB, METRO CLAD, OTHERS PLEASE CONTACT	ALL		
SEAL MATERIAL	EPDM RUBBER			
REINFORCING MATERIAL	ALUMINIUM			
PRE PUNCHED SCREW HOLES	YES			
FIXING METHOD	SCREW OR POP RIVET			
HOSE CLAMP MATERIAL	SS304			
NUMBER OF HOSE CLAMPS	1			2
HOSE CLAMP TIGHTEN METHOD	HAND, WING NUT			
CONDUIT LOCKING	YES, CONDUIT GRIP RING & COMPRESSION			
DIRECTIONAL FLEXABILITY	MODERATE	HIGH	HIGH	MODERATE TO HIGH
THERMAL EXPANSION PROTECTION	YES			
SEALANT REQUIRED BETWEEN ENTRY AND CONDUIT	NO			
SEALANT REQUIRED BETWEEN ENTRY AND ROOF	YES			
RECOMMENDED SEALANT	SOLAR RATED POLYURETHANE			
COMPATIBLE WITH SILICON SEALANT	YES			
COMPATIBLE FOR POLYURETHANE SEALANT	YES			
DIMENSIONS ABOVE ROOF SURFACE (D:H)	80MM : 55MM	121MM : 45 - 80MM	121MM : 45 - 80MM	174MM : 60 - 124MM