



TreadSafe™

PRODUCT DATA SPECIFICATIONS

PRODUCT DESCRIPTION

TreadSafe is designed for use in compressible insulation. When used with a specially designed RhinoBond® plate, TreadSafe provides an insulation and membrane attachment system for securing TPO, PVC and clean EPDM* roofing membranes. The system is Factory Mutual approved and compatible with OMG RoofGrip, Heavy Duty, Universal and Extra Heavy Duty fasteners as well as other OMG fasteners approved by the roofing system manufacturer.

FEATURES & BENEFITS

- TreadSafe accommodates the normal deflection of compressible roof insulation to minimize the potential for fasteners to penetrate roofing membranes.
- Reduces thermal bridging.
- Made from high quality polyamide for heat and impact-resistance.
- Available in four lengths from 40 to 165 mm to accommodate most roof build-ups.
- Compatible with mineral wool, polyisocyanurate, XPS and EPS insulation.
- Patented TreadSafe tubes lock into compatible RhinoBond Plates and securely hold fasteners in place.
- RhinoBond Plates meet FM 4470 and EAD030351-00-0402 criteria for corrosion resistance.

APPLICATION

Tube installation may require an extended driver bit (sold separately).

For steel decks, 20 mm (3/4-in.) penetration is the minimum allowable.

For OSB and plywood, 20 mm (3/4-in.) penetration through the underside of the board is the minimum allowable. For wood deck (wood plank, tongue & groove), 25 mm (1-in.) penetration is the minimum allowable.

For concrete decks, minimum fastener embedment into the deck should be 25 mm (1-in.). The predrilled hole must be a minimum of 13 mm (1/2-in.) deeper than fastener embedment.

* Clean EPDM membrane – currently there are a limited number of clean EPDM options available only in Europe and approved for use with RhinoBond. Always verify membrane suitability and approvals with membrane supplier. RhinoBond is not suitable for use with other EPDM membrane.

Note: Prior to job start, OMG recommends that a pull test be conducted to determine deck suitability.

PACKAGING

TreadSafe tubes and TreadSafe Plates are packed 500 per container. Tubes are provided in boxes, plates are supplied in weather resistant buckets. Tube/plate assembly is required prior to use.

RHINO BOND SYSTEM

RhinoBond is a proprietary roof attachment system approved for use by most roofing manufacturers. The system requires the use of RhinoBond Plates and OMG manufactured fasteners, as well as a RhinoBond Induction Welding Tool.

RhinoBond is compatible with most common insulation types, including mineral wool, polyisocyanurate, as well as any insulation that will not melt by the induction welding process. Induction welding over extruded polystyrene (XPS) or expanded polystyrene (EPS) requires a minimum 1.27 mm (0.5-in.) cover board, or use of the OMG 102 mm (4-in.) round Cardboard Discs.

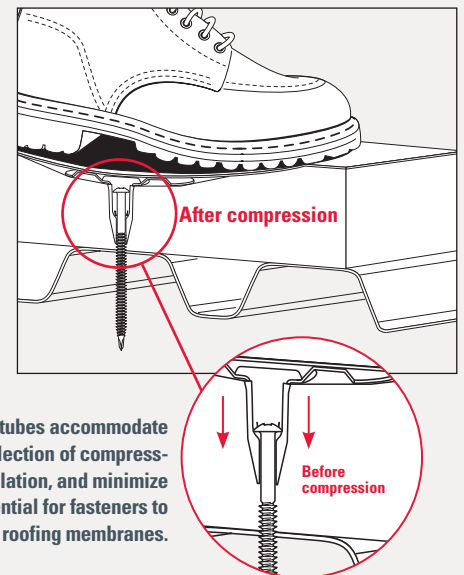
APPROVALS



The TreadSafe tubes accommodate the normal deflection of compressible roof insulation, and minimize the potential for fasteners to penetrate roofing membranes.



USE WITH **S W SC P** DECK TYPES



ORDERING INFORMATION

TUBES CAT. NO.	LENGTH MM (IN)	PKG QTY	WEIGHT KG (LBS)	MATERIAL
RBTST040	40 (1.5)	500	3.63 (8)	Polyamide
RBTST065	65 (2.5)	500	4.99 (11)	Polyamide
RBTST110	110 (4.3)	500	8.17 (18)	Polyamide
RBTST165	165 (6.5)	500	12.25 (27)	Polyamide

PLATES CAT. NO.	MEMBRANE	PKG QTY	WEIGHT KG (LBS)	MATERIAL
RBP80TS-TPO	TPO	500	16.34 (36)	Coated Galvalume
RBP80TS-PVC	PVC	500	16.34 (36)	Coated Galvalume

DRIVER BITS	DESCRIPTION	QUANTITY
SL25BITX6	T25 Bit 150 mm (6-in.)	1
PB3-6LONG	#3 Phillips Bit 150 mm (6-in.)	1
BHOLDERX6	Bit Holder 150 mm (6-in.)	1



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TreadSafe Tube and Fastener Selection Procedure

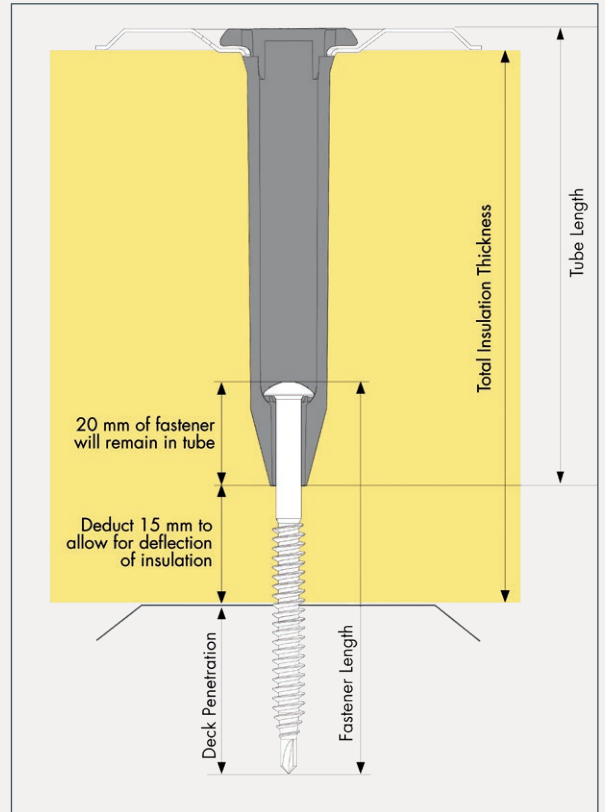
For best results, use the maximum length TreadSafe tube and the shortest fastener length available. **Select the maximum tube length first before selecting the fastener length.**

TreadSafe Tube Selection

1. If applicable, determine the thickness of existing roofing material and add thickness of new insulation.
2. Subtract 15 mm to allow for deflection of insulation.
3. Select the TreadSafe tube in that length or shorter (never longer).

Fastener Selection

1. Use the thickness determined in step 1 of the TreadSafe Tube selection procedure.
2. Subtract the selected TreadSafe tube length.
3. Add the proper fastener penetration depending on deck type. If selecting a fastener length to penetrate bottom of a steel flute add the height of the fluted deck as well.
4. Add 20 mm for the fastener that will remain within the base of the TreadSafe tube.
5. Select the fastener in that length or round-up (never shorter).



KEY:

S Steel	SC Structural Concrete
W Wood	LC Lightweight Concrete
G Gypsum	LIWIC Lightweight Insulating Concrete
P Purlins	CWF Cementitious Wood Fiber

EXAMPLE

TREADSAFE TUBE SELECTION		
STEPS	DESCRIPTION	THE MATH (+/-) EXAMPLE
1	Total insulation thickness. If applicable, determine the thickness of existing roofing material and add thickness of new insulation.	140
2	Subtract 15 mm to allow for deflection of insulation.	-15
3	Select the TreadSafe tube in that length or shorter (never longer).	125
	Tube length	110
TREADSAFE FASTENER SELECTION		
STEPS	DESCRIPTION	THE MATH (+/-) EXAMPLE
1	Use the thickness determined in step "1" of the TreadSafe Tube selection procedure.	140
2	Subtract the selected TreadSafe tube length.	-110
3	Add the proper fastener penetration depending on deck type. If selecting a fastener length to penetrate bottom of a steel flute add the height of the fluted deck as well.	20
4	Add 20 mm for the fastener that will remain within the base of the TreadSafe tube.	20
	Fastener length	70
5	Select the fastener in that length or round-up (never shorter).	75



ROOFING PRODUCTS
153 BOWLES ROAD,
AGAWAM, MA 01001 USA
+1 413.789.0252

Superior productivity. Superior performance.

INFOEUROPE@OMGINC.COM

Find Us at: www.omgroof.com/euro-reps

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