



# 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 and PVC 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 1.5 (40 mm)- to 6.5-in. (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 a driver extension bit (sold separately).

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

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

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

**Note: Prior to job start, OMG recommends that a pullout 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

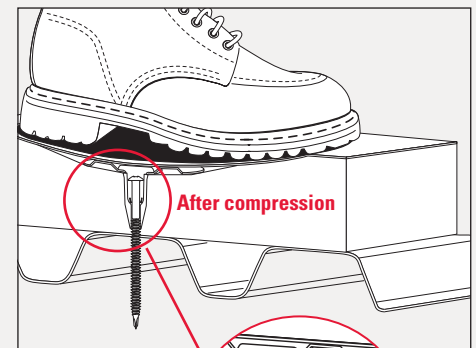
RhinoBond is a proprietary roof attachment system approved for use by most roofing manufacturers. The system requires the use of RhinoBond plates and OMG manufactured fasteners, as well as a RhinoBond Induction Welding Tool.

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 0.5-in. (13 mm) cover board or use of the OMG 4-in. (102 mm) round Cardboard Discs.

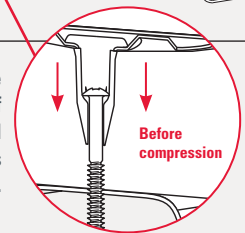
### APPROVALS



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



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



### ORDERING INFORMATION

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

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

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

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### TreadSafe Tube and Fastener Selection

#### Procedure

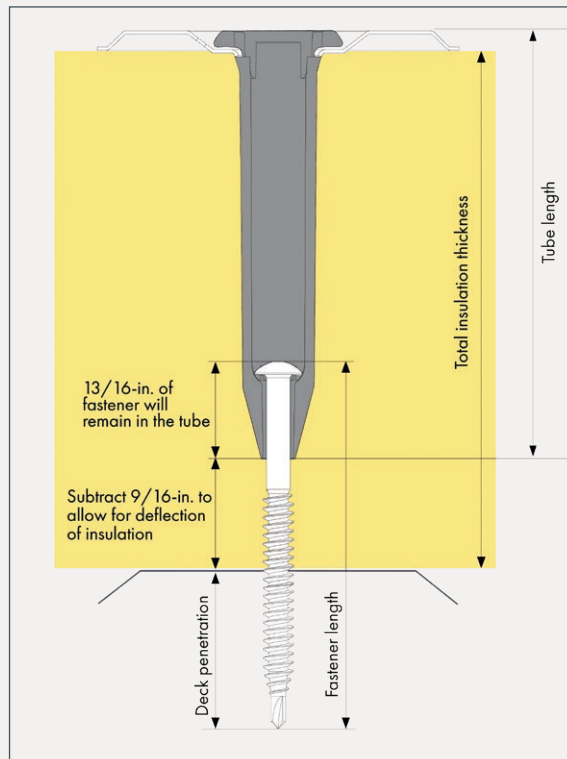
For best results, use the maximum length TreadSafe tube and the shortest fastener length available. **Select the maximum tube length first before selecting the fastener length.**

#### TreadSafe Tube Selection

1. If applicable, determine the thickness of existing roofing material and add thickness of new insulation.
2. Subtract 9/16-in. (14 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 the bottom of a steel flute, add the height of the fluted deck as well.
4. Add 13/16-in. (21 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    **LWIC** 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.	5.5 (140)
2	Subtract 9/16-in. (14 mm) to allow for deflection of insulation.	-9/16 (-21)
3	Select the TreadSafe tube in that length or shorter (never longer).	4.9 (125)
	Tube length	4.3 (109)
TREADSAFE FASTENER SELECTION		
STEPS	DESCRIPTION	THE MATH (+/-) EXAMPLE
1	Use the thickness determined in step "1" of the TreadSafe tube selection procedure.	5.5 (140)
2	Subtract the selected TreadSafe tube length.	-4.3 (-109)
3	Add the proper fastener penetration depending on deck type. If selecting a fastener length to penetrate the bottom of a steel flute, add the height of the fluted deck as well.	13/16 (21)
4	Add 13/16-in. for the fastener that will remain within the base of the TreadSafe tube.	13/16 (21)
	Fastener length	2.8 (71)
5	Select the fastener in that length or round-up (never shorter).	3 (76)