

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 Extra Heavy Duty and RetroDriller fasteners, but can also be used with 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 and polyisocyanurate insulation.
- Patented TreadSafe tubes lock into compatible RhinoBond Plates and securely hold fasteners in place.
- Factory Mutual and CE approved. See specific manufacturers for FM approvals.
- RhinoBond Plates meet FM 4470 and ETAG 006 criteria for corrosion resistance.

APPLICATION

For steel decks, 20 mm (3/4-in.) penetration is the minimum allowable. Factory Mutual requires that fasteners penetrate the top flute.

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.

Note: Prior to job start, contact OMG to perform a pullout test to determine the pullout values.

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

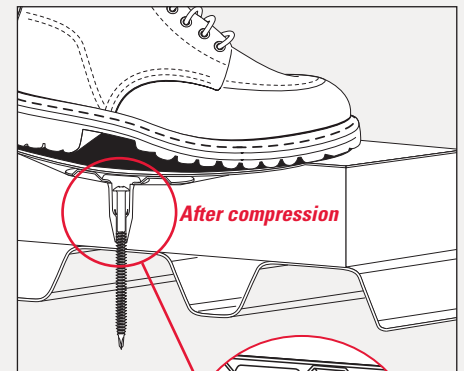
RhinoBond is a proprietary roof attachment system approved for use by most roofing manufacturers. The system requires the use of RhinoBond Plates and OMG manufactured fasteners, as well as a RhinoBond Induction Welding Tool.

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 125 mm (5-in.) cover board, or use of the OMG 102 mm (4-in.) Cardboard Discs.

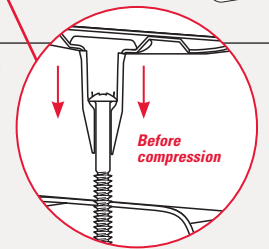
APPROVALS



USE WITH **S W SC 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	PKG	WEIGHT Kg (lbs)	MATERIAL
RBTST040	40 mm (1.5-in.)	500	3.63 (8)	Polyamide
RBTST065	65 mm (2.5-in.)	500	4.99 (11)	Polyamide
RBTST110	110 mm (4.3-in.)	500	8.17 (18)	Polyamide
RBTST165	165 mm (6.5-in.)	500	12.25 (27)	Polyamide

PLATES CAT. NO.	MEMBRANE	PKG	WEIGHT Kg (lbs)	MATERIAL
RBP80TS-TPO	TPO	500	16.34 (36)	Coated Galvalume
RBP80TS-PVC	PVC	500	16.34 (36)	Coated Galvalume

* 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.

KEY:

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

TreadSafe Tube and Fastener Selection Procedure

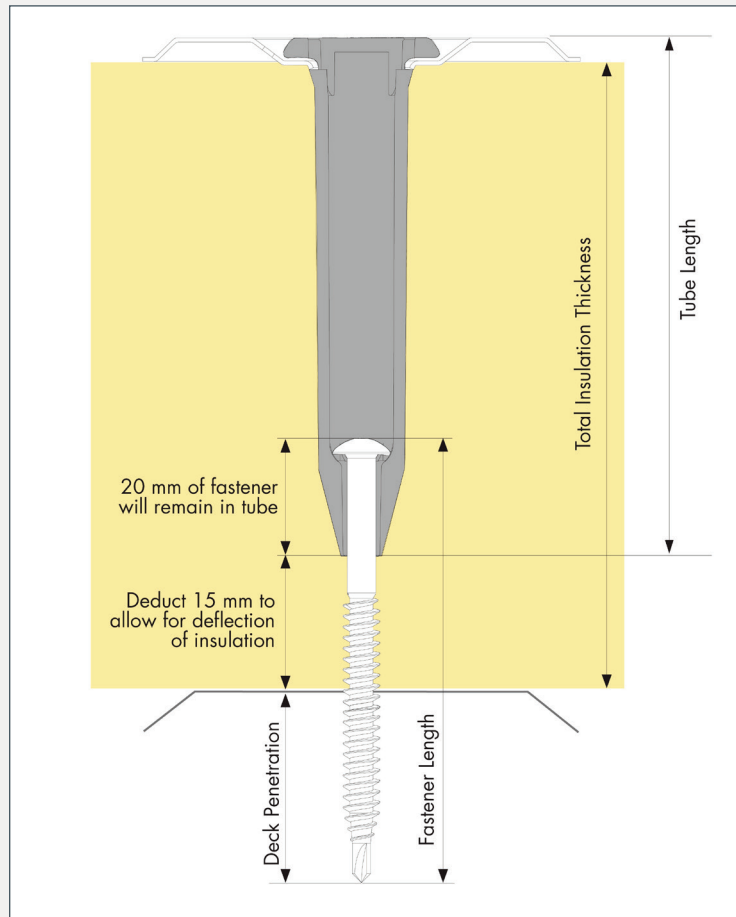
For best results, use the maximum length TreadSafe tube and the shortest fastener length available. **Select the maximum tube length first before selecting the fastener length.**

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).



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.	85
2	Subtract 15 mm to allow for deflection of insulation.	-15
3	Select the TreadSafe tube in that length or shorter (never longer).	70
	Tube length	65
TREADSAFE FASTENER SELECTION		
STEPS	DESCRIPTION	THE MATH (+/-) EXAMPLE
1	Use the thickness determined in step "1" of the TreadSafe Tube selection procedure.	85
2	Subtract the selected TreadSafe tube length.	-65
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	60
5	Select the fastener in that length or round-up (never shorter).	75

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