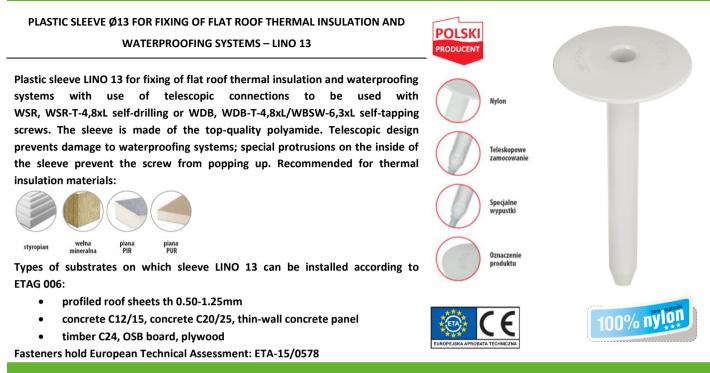


PRODUCT DATA SHEET – LINO 13



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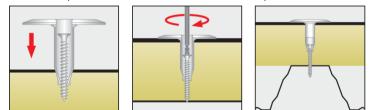
Section 1. PRODUCT DESCRIPTION



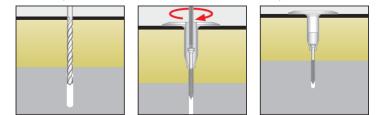
Section 2. METHOD OF INSTALLATION

- 1. Before installation identify the substrate (steel sheet, concrete, timber substrate), and its thickness and select suitable fasteners. Pay particular attention to select suitable fastener type for renovation of flat roofs on a concrete substrate (in special cases perform fastener pull-out resistance tests).
- 2. Identify thermal insulation thickness and type (mineral wool, polystyrene, PIR foam, PUR foam, EPS roofing membrane).
- 3. Identify waterproofing material type and width (1.0; 1.5; 2.0; 2.5 rm.)
- 4. Based on items 1-3 select adequate length of plastic sleeve by min. 15mm shorter than thermal insulation thickness
- 5. Due to telescopic connection of the screw, effective width of plastic sleeve is: L_k-15mm
- 6. Select adequate length of a screw according to a substrate, so that its effective depth of anchorage conforms with European Technical Assessment and relevant Product Data Sheet
- 7. It is recommended to keep the distance of support washer of the sleeve or KD steel washers of min. 10mm from the edge of the waterproofing (on the overlap, for oval washers in parallel with the longer side to the waterproofing edge)
- 8. Once plastic sleeve is combined with an suitable screw, the fastener should be screwed in the substrate using dedicated driver bits
- 9. After installation, roof fastener should maintain an effective pressure on the waterproofing and thermal insulation systems, and the support washer of the plastic sleeve should prevent rotation about steel fastener axis
- Number of fasteners per 1m² should be defined in the facility technical design the design should include division of a flat roof into individual wind zones (corner, outer side, inner side, central)

Example installation: steel substrate – telescopic connection



Example installation: concrete substrate – telescopic connection



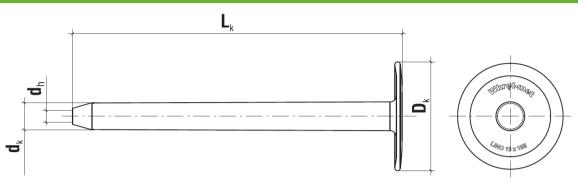




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PRODUCT DATA SHEET – LINO 13

Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS				
Parameter	Unit	Value		
Sleeve diameter	d _k [mm]	13		
Hole in the sleeve	d _h [mm]	6.3		
Collar of the sleeve	D _k [mm]	50		
Sleeve material	[-]	PA - polyamide		
European Technical Assessment	[-]	ETA-15/0578		

SELECTION TABLE				
Product code	Sleeve dimensions (d _k x L _k)	Min. thermal insulation thickness [mm]	Number of pieces in a box	
LINO-13035-PA	13x35	50	200	
LINO-13055-PA	13x55	70	200	
LINO-13085-PA	13x85	100	200	
LINO-13105-PA	13x105	120	200	
LINO-13135-PA	13x135	150	200	
LINO-13155-PA	13x155	170	200	
LINO-13185-PA	13x185	200	200	
LINO-13235-PA	13x235	250	100	
LINO-13285-PA	13x285	300	100	

Section 4. REMARKS

- 1. All previous versions of this Product Data Sheet shall cease to be valid
- 2. Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith. KLIMAS Sp. z o.o. is not responsible for correctness and quality of the fixing if recommendations regarding method of use and installation are not followed.