

# TECHNICAL MANUAL



## POLYCARBONATE CORRUGATED SHEETS

VERSION 11  
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# ENG

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# MACROLUX® ROOFLITE®

## Description

Macrolux® Rooflite® is a type of extruded sheets made of compact fretted or corrugated polycarbonate. The shape of the templates allows coupling with metal sections.

Macrolux® Rooflite® sheets guarantee high resistance against impact, they are extremely light and they have an ideal light transmission.

Macrolux® Rooflite® sheets are the ideal products for manufacturing industrial roofings, greenhouses, canopies, etc.

This manual outlines the main features and instructions for mounting Macrolux® Rooflite® polycarbonate sheets.

For further information or comments please write to:



Via Lische 11/13 P.O. Box 702

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**WARNING:** Purchase of Macrolux® Rooflite® sheets is subject to reserves, please check general sales conditions from our offices.

**WARNING:** All other company or product names, herein mentioned are registered trademarks belonging to the owners in question.

**WARNING:** All information provided for in this manual was gathered to help customers during design and laying steps. Such information was processed according to our topmost know-how and it shall be subjected to modifications without prior notice. Data borne herein shall be deemed as non-binding information and hence shall not exempt the customer for performing his own check-ups with the aim of establishing suitability for the intended use. In case of doubt or difficulty, please seek Stabilit Suisse SA advice before proceeding.

## 1. Polycarbonate general features

Polycarbonate is a thermoplastic polymer having excellent mechanical and physical properties. Due to its adaptability and durability, polycarbonates for example are used for manufacturing CDs and DVDs. In addition, its resistance against impacts makes of polycarbonates an ideal material for use in automotive, aeronautical and ballistic (airplane windows, automobile lights, anti-riot shields and helmets, etc) industry. All these characteristics, alongside high transparency, make polycarbonates suitable for application in the building industry.

### 1.1. Polycarbonate technical data.

	Value	Unit	Standard
<b>Mechanical properties</b>			
Yield stress (50 mm/min)	63	MPa	ISO 527
Stress at break (50 mm/min)	70	MPa	ISO 527
Yield strain (50 mm/min)	6	%	ISO 527
Strain at break (50 mm/min)	120	%	ISO 527
Tensile modulus (1 mm/min)	2350	MPa	ISO 527
<b>Impact properties</b>			
Charpy V-notched impact strength	+23°C	75	kJ/m <sup>2</sup>
	-30°C	15	kJ/m <sup>2</sup>
Izod notched impact strength	+23°C	70	kJ/m <sup>2</sup>
	-30°C	12	kJ/m <sup>2</sup>
<b>Physical properties</b>			
Density	1,2	g/cm <sup>3</sup>	ISO 1183
Water absorption (23° C; saturation)	0,35	%	ISO 62
Moisture absorption (23° C; 50% RH)	0,15	%	ISO 62
Water vapor permeability (23°C;85% RH;0,1mm)	15	g/(m <sup>2</sup> 24h)	ISO 15106-1
<b>Thermal properties</b>			
Coefficient of linear thermal expansion (23°C±55°C)	0,65	10 <sup>-4</sup> /K	ISO 11359-2
Thermal conductivity	0,20	W/(m K)	ISO 8302
Vicat softening temperature (50N; 120°C/h)	145-149	°C	ISO 306
<i>TYPICAL VALUES REFERRED TO POLYCARBONATE AS RAW MATERIAL</i>			

### 1.2. Comparison with other products.

Compared to other plastic materials commonly used in the building industry and glass, polycarbonate is better due to various characteristics.

	U.M.	PC	PMMA	PVC	PET	GRP	Glass
Density	g/cm <sup>3</sup>	1,20	1,19	1,38	1,33	1,42	2,50
Resilience	KJ/m <sup>2</sup>	30	2	4	3	1,2	nd
Elastic module	N/mm <sup>2</sup>	2.350	3.200	3.200	2.450	6.000	70.000
Linear thermal expansion	1/°C	6,5 x 10 <sup>-5</sup>	7,0 x 10 <sup>-5</sup>	6,7 x 10 <sup>-5</sup>	5,0 x 10 <sup>-5</sup>	3,2 x 10 <sup>-5</sup>	0,9 x 10 <sup>-5</sup>
Thermal conductivity	W/m K	0,20	0,19	0,13	0,24	0,15	1,3
Highest service temperature	°C	120°	90°	60°	80°	140°	240°
Transparency to UV rays	%	4	40	na	na	19	80
Characteristics against fire	-	Very good	Flammable	Flammable	Flammable	Flammable	Fireproof
Resistance to aging	-	Good	Very good	Poor	Poor	Good	Excellent
Compatibility with chemicals	-	Good	Good	Poor	Good	Good	Very good

## 2. Sections

Macrolux<sup>®</sup> Rooflite<sup>®</sup> array of sheets comes in various pieces, thicknesses and colours. Sections and their characteristics are described in detail in the annexes.

## 3. UV protection

Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets are protected on the outer side with a layer of UV absorbers which protect the sheet against ageing, guaranteeing their durability over time. The protected side, which must be installed externally, is distinguished by the mark indicating %UV side+and by the lot number.

## 4. Macrolux<sup>®</sup> Rooflite<sup>®</sup> XL protection on both sides

Macrolux<sup>®</sup> Rooflite<sup>®</sup> XL (Extralife) sheets can be supplied with the UV protection on both faces. Such versions are subjected to limitations and minimum amounts. Please contact our offices for further information.

## 5. Macrolux<sup>®</sup> Rooflite<sup>®</sup> MINDEW

Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets can be supplied, upon request, with an anti-condensation treatment performed on the inner surface. Application of the MINDEW treatment is ideal for applications in greenhouses and swimming pools in that it prevents condensation drops from dripping into the structure in question.

## 6. Warranty

Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets are covered by a warranty against ageing for a period of 10 years. Warranty terms and conditions include loss of lighting and variation of the yellow index. Please contact our sales offices for accurate terms and conditions.

## 7. Light transmission

Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets offer maximum light transmission allowing to exploit the light point to the maximum. Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets offer a complete range of colours that allow proper dosage of light and offer advanced solutions to reduce the passage of solar energy, such as the %Macrolux<sup>®</sup> Rooflite<sup>®</sup> ATHERMIC+sheets.

Light transmission				
Colour	Thickness			
	0.8 mm	1.0 mm	1.1 mm	1.2 mm
Clear (0010)	89	89	89	89
Opal (0037)	80	75	75	75
Opal (9011)	2	2	2	2
Smoky grey (0024)	60	55	55	55

## 8. Fire behaviour

Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets maintain the optimal reaction to fire properties of the polycarbonate material. Various certificates valid in several countries are available. For further information, please contact our sales offices.

## 9. Thermal conductivity

Polycarbonate thermal conductivity confers the polycarbonate a good insulation property with respect to profiled sheets made of metal material.

### Thermal conductivity

0.20 W/m K

## 10. Thermal expansion

The polycarbonate thermal expansion value must always be borne in mind for proper designing.

### Thermal expansion

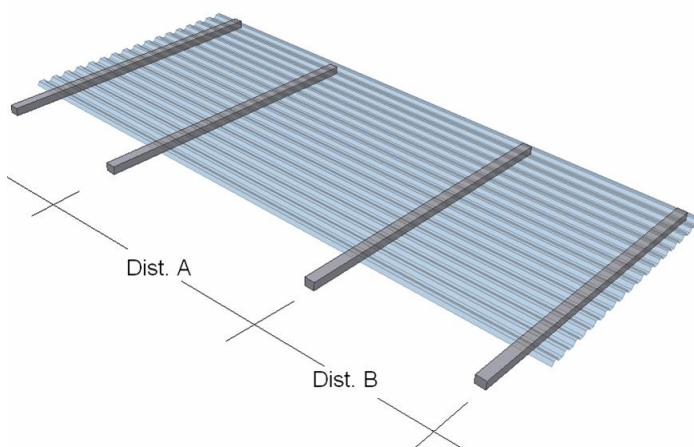
 0.065 mm/m °C ( $6.5 \times 10^{-5}$  1/ K)

Such value shall be deemed as an important parameter when selecting the suitable type of fixing.

## 11. Resistance to hail

Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets obtained optimal hail resistance performances. Impact tests were performed at Istituto Giordano (Italy) with hail simulated by polyamide beads with a diameter of 40 mm and thrown at a growing speed. No breakages were observed even at high speed (60 m/sec).

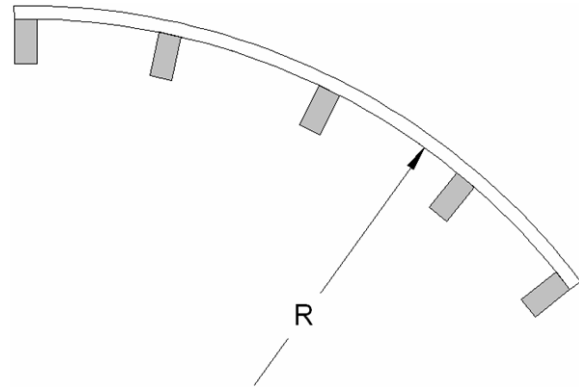
## 12. Flat solution Ë Minimum slope



In order to facilitate the flow of rain water we recommend laying the Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets with a minimum slope of 5%.

### 13. Curved solution

Macrolux® Rooflite® sheets may be mounted on curved structures but complying with the conditions that the radius outlined by the succession of the supports has a value greater than the minimum values indicated for each type of section.



### 14. Important advices

Macrolux® Rooflite® sheets shall be mounted on continuous supports and orthogonal with respect to the length of the sheets.

The supports must be smooth and free of any objects capable of jeopardizing the integrity of the sheets, such as projecting nails, wires, strings, protection nets, etc.

### 15. Recommended maximum length

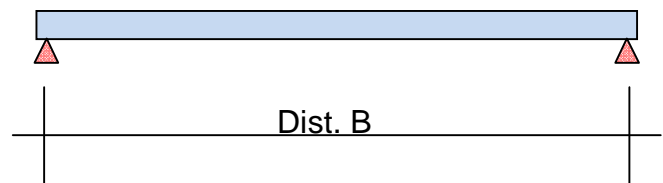
Alongside the high thermal expansion typical of polycarbonate and depending on the type of fixing used in the past for the Macrolux® Rooflite®, we recommend using sheets with a maximum length of 4000 mm.

In case of extremely long flaps, we recommend overlapping several sheets length-wise; however, by means of a proper positioning of the slots suitably protected by sealing gaskets it is possible to use sheets even longer than 4 m.

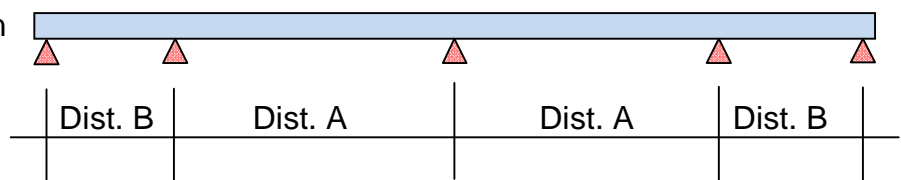
### 16. Allowable loads

Allowable values for the maximum distances between the supports are indicated in the tables regarding each single section. Such values can also be used for curved solutions. Alongside the type of sheet, the distance of the supports also depends on the type of application.

- Sheet solution on two supports



- Sheet solution on several supports



Fixing must be performed on all purlins according to the methods and indications provided for in this document. The values indicated in the tables are

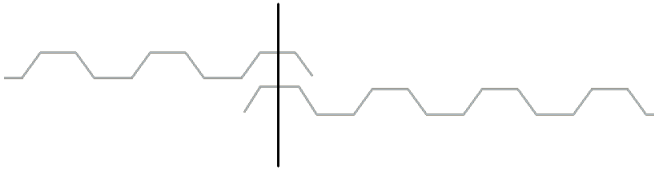
- ✓ Ultimate strength safety coefficient equivalent to 1.5.

In case of very low slopes, deformation under load could create a counterslope causing leakage and water stagnation. In such cases, timely control of deformation under load is required.



## 17. Overlaps

Simple overlap



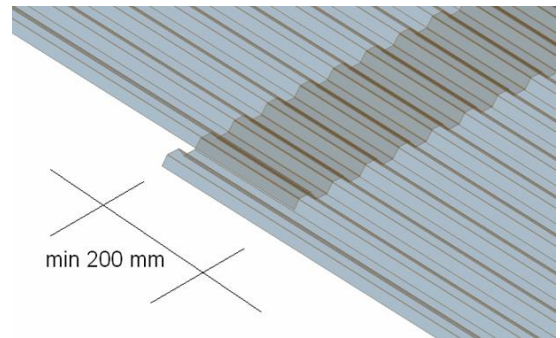
Double-pitch overlap



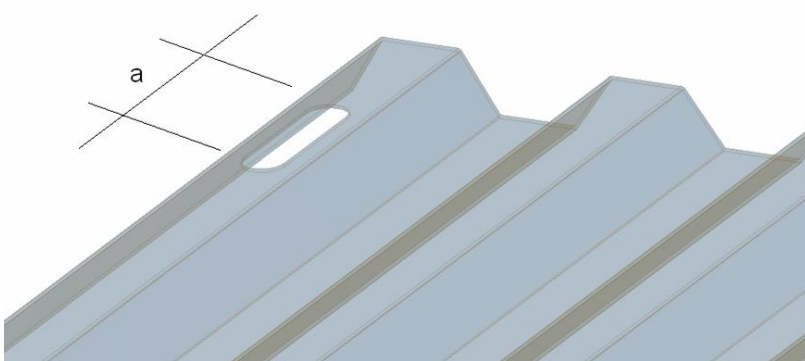
Overlapping Macrolux® Rooflite® sheets require following simple rules. For side overlapping, at least one complete pitch is recommended, but in case of low slopes (5% to 10%) or in cases where the flap is considerably long (longer than 4 metres) at least a double pitch overlap is recommended.

In case of shapes with low TRAPEZ or wave, it is necessary to install sheets with a double-pitch side overlap (as for example with wave 76/18).

In case of overlapping several sheets length-wise, it is necessary that such operation be performed at a transverse support and that there be at least a 200 mm overlap.



## 18. Fixing



Fixings must be provided with gaskets suitable to guarantee watertight sealing bearing in mind that the hole must be suitably slotted to guarantee the thermal expansion of the polycarbonate sheet.

The slotting pitch depends on the length of the sheet and it is equivalent to:

Screw diameter 6 mm	
Sheet length (mm)	Slotting (mm)
Up to 2.000 mm	10 mm
Up to 4.000 mm	12 mm
Up to 6.000 mm	15 mm
Up to 8.000 mm	20 mm
Up to 10.000 mm	25 mm

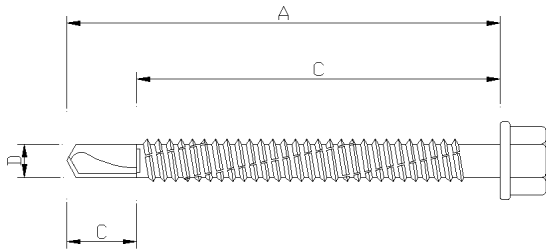
## 19. Fixing at the purlin

Macrolux® Rooflite® sheets must be anchored in an integral manner with respect to the support structure through an adequate number of fixings and suitable for support (wood, metal purlin, etc.).

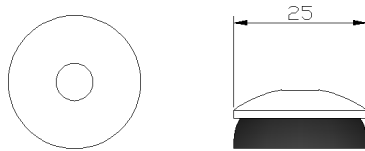
The distance required for proper fixing depends on the pitch and shape of the fret.

The fastening force must be such not to deform the sheet but, at the same time, guarantee a good operation of the gasket.

- ✓ Self-drilling fixings on a metal structure with gasket and metal washer



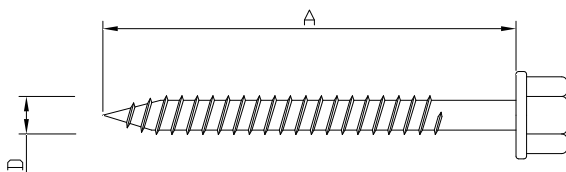
Self-drilling screw



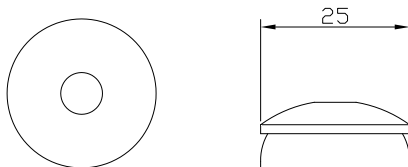
EPDM sealing washer with aluminium metal washer  $\Phi$  25 mm.

Size	Spanner (mm)	Diameter D (mm)	Total length A (mm)	Useable length B (mm)	Drilling C (mm)
6.3 x 45 mm	8	6.3	45	30	6
6.3 x 60 mm	8	6.3	60	45	6
6.3 x 80 mm	8	6.3	80	65	6
6.3 x 100 mm	8	6.3	100	85	6

- ✓ Recommended fixings on wooden structures (**not available**) with gasket and metal washer.



Screw for wood



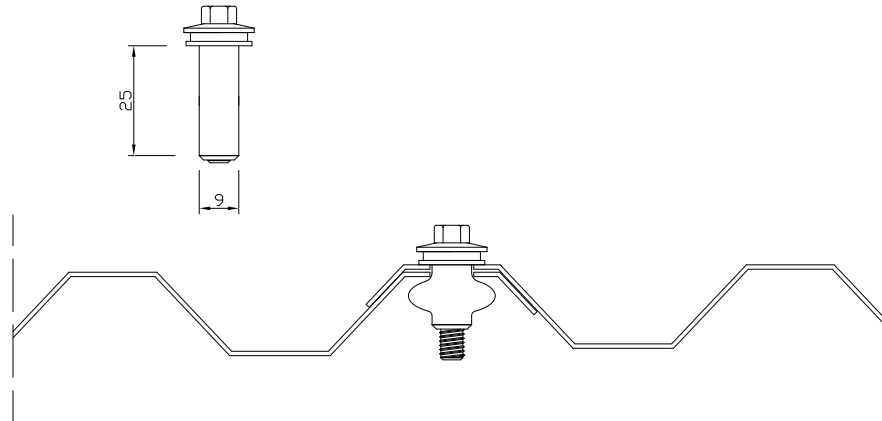
EPDM sealing washer with aluminium metal washer  $\Phi$  25 mm.

Size	Spanner (mm)	Diameter D (mm)	Length A (mm)
6.5 x 60 mm	8	6.5	60
6.5 x 75 mm	8	6.5	75
6.5 x 100 mm	8	6.5	100

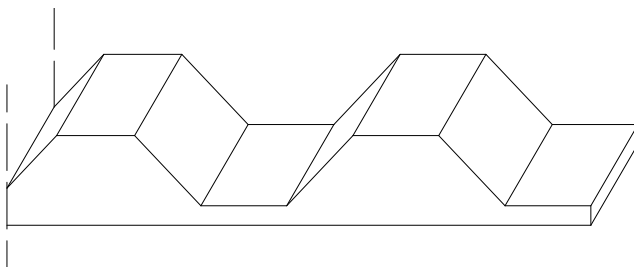
For supports made of wood consider screwing at least 30 mm deep.

## 20. Side overlap seam

At the side rebate of two Macrolux® Rooflite® sheets it is recommended to seam the two overlapped strips with a special dowel.



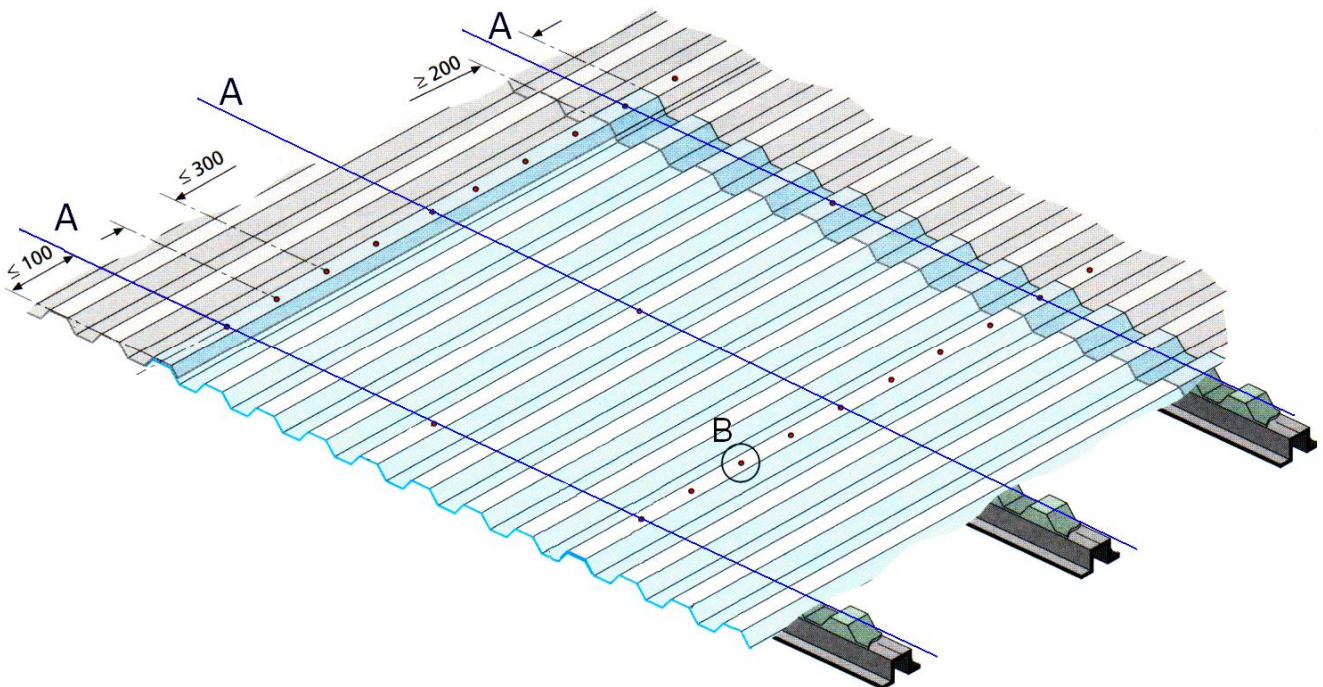
## 21. Spacer



For better thermal insulation and in order to prevent the pressure-fastening of the screws from damaging the polycarbonate fret by pressing it, use of an **under-fret** made of PE interposed between the purlin and the fret is recommended.

## 22. Arrangement of the accessories

For proper laying of the Macrolux® Rooflite® sheet, buffers made of foamed PE are required to be arranged beneath the fret so as to enhance resistance against the fastening force of the screw; furthermore, the foamed bumper increases the air sealing between the support and polycarbonate sheet. The distance of the support purlins shall be assessed depending on the expected load, the thickness and type of template (check the suitable sheet tables). Fixings passing through the purlins (fixing lines A) shall be performed on the ridge of the fret and sufficient (in number) to guarantee stability against wind. The seaming on the overlap, at positions not provided with the purlin (B), being required for all side overlaps. Minimum arrangement of fixings per template can be observed from the annexed product specifications sheet.



Overlapping with already existing frets must be at least 200 mm both upstream and downstream. Such value shall be increased in case of low slope. Any projections, with respect to the last purlin, of the polycarbonate sheet shall not exceed 100 mm.

## 23. Packaging and forwarding

In standard packaging, Macrolux® Rooflite® sheets are supplied on wooded pallets, protected by a thermowelded and fastened heavy polyethylene film.

Customised sheets shall be packaged according to the discretion of Stabilit Suisse SA. In case of special requests (transfer at worksites, unloading problems, etc.), please make arrangements when placing orders with our sales offices and the latter will see to meeting your requirements.

## 24. Transport

Macrolux® Rooflite® sheets shall be transported on suitable means in such a manner that sheets and pallets completely lie against the platform. Ropes and blocks, required to hold the pallets firm during transport, shall be positioned in such a manner not to damage the sheets. Any damage occurring during transport shall be reported within eight hours upon reception of the goods. For proper analysis of the problem, reference to the CMR transport document is required.

## 25. Transfer and storage

Transfer and storage of Macrolux® Rooflite® sheets are delicate operations that could damage the sheets. Therefore, strict compliance with the following instructions is of paramount importance:

- Maximum care when using forklift trucks is recommended. Forks shall not come into direct contact with the sheets under no circumstances whatsoever.
- In case belts or balances are used for lifting, use belts at least 200 mm wide for proper distribution of weights, interpose a wooden board . with a greater length than the width . of the sheet between the package or pallets and the ropes.
- The distance of the forks must be such to avoid flexions of the pallet.
- In case of storage of several pallets stack a maximum of three pallets (do not stack the pallets directly but use supports capable of preserving the contact surface (polystyrene, insulations etc.).
- In case of stacking a pallet previously laid against the ground, ensure that there are no objects on lower part of the pallet capable of ruining the surface on which they are meant to lie.
- Stack the pallets with an integral packaging with a slight slope to allow flow of possible condensations and water stagnation.
- Keep the integral packages in sheltered place or in a place where they can be covered with canvas to protect the packages against harsh conditions and ensure proper aeration.
- If the packaging has been open, the sheets must be stored inside, safe from heat sources and direct sunbeams. They must be stocked on plane surface, in horizontal position in order to avoid bending and curving of the surfaces.
- If performed by hand, transfer of single sheets shall occur with the sheet on its side.

## 26. Cleaning

When cleaning Macrolux® Rooflite® sheets, strictly use only products certified for cleaning polycarbonates (see the manufacturer specifications sheet).

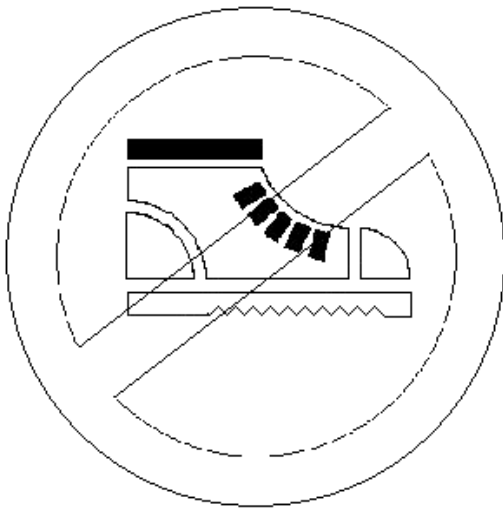
In order to maintain the light passages, the latter must be cleaned periodically with water and non-alkaline soap or with suitable detergents, subsequently thoroughly rinsing with water.

Dirt must be removed with maximum care, using soft rags to avoid altering the protection layer.

**WARNING:**

Do not use alkaline detergents, solvents in general, abrasive detergents, brushes, steel wool, blades or sharp devices that might damage the UV protection layer.

## 27. Safety Ë Access to roofing



During both laying and maintenance operations do not walk directly on the Macrolux® Rooflite® polycarbonate sheets.

As a matter of fact, the polycarbonate sheets are NOT made to be walked on and they are subject to breaking.

In case you need access to the roofing, use the suitable gangways which guarantee safety for all the operators.

Protect the sheets against possible scratches with suitable covers.

**WARNING:**

In case of access to the roofing, should there be risks of falling or breaking, assemble all the required elements in compliance with all the work safety regulations in force in the country in question.

**WARNING:** Purchase of Macrolux® Rooflite® sheets is subject to reserves, please check general sales conditions from our offices.

**WARNING:** The information provided for in this manual was gathered to help customers during design and laying steps. Such information was processed according to our topmost know-how and it shall be subjected to modifications without prior notice. Data borne herein shall be deemed as non-binding information and hence shall not exempt the customer for performing his own check-ups with the aim of establishing suitability for the intended use. In case of doubt or difficulty, please seek Stabilit Suisse SA advice before proceeding.

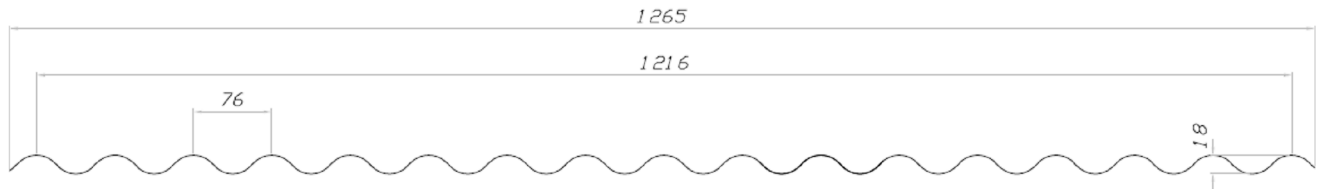


## 28. Index by measure

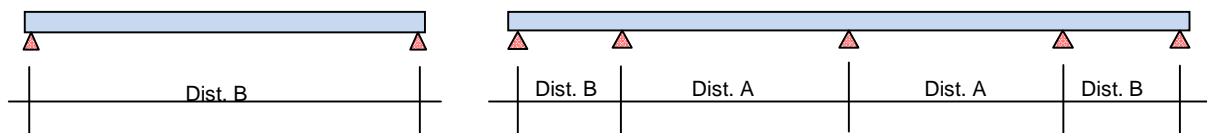
Step	Height	Macrolux Rooflite	Referenco	Annex nr
500	41	RH2	Isolpack Delta 3A	Annex 26
333	45	RNN	Nervesco 3.45.1000 TS	Annex 17
333	42	RDD	Remco	Annex 10
333	39	RD1	Haironville 39/333	Annex 11
333	38	RN1	Scope 333.5x38	Annex 38
333	38	RCC	Metecno A38	Annex 9
332.5	38	RN2	Nueva Kubimil	Annex 48
315	56.8	RZ2	SAB 58KD/945	Annex 41
305	22	RC1	Andex Century Rib	Annex 33
304	31.8	RZZ	MB12	Annex 22
275	30	RX2		Annex 25
262.5	34	RPP	Teczone TZ 32	Annex 19
250	41.9	RX3	Italpanelli Penta	Annex 28
250	41	RH3	Isolpack Delta 5A	Annex 27
250	40	RXX	Cobacier 1004	Annex 23
250	40	RHH		Annex 12
250	40	RX4	Alubel Dach	Annex 40
250	40	RH1	Isolpack - RW1000	Annex 29
250	40	RX1	Ikön-Utap	Annex 30
250	39	RH4	Hoesch HP 39/250	Annex 46
250	36	RP1	SAB KD36	Annex 34
228.6	19	RWW	MB9	Annex 21
209	30	RYY	Aceralia	Annex 24
207	35	RB1	Klokner 35/207	Annex 8
205.5	35.4	RBB		Annex 7
200	42	RII	Hiansa MT 42	Annex 16
200	32	RLL	Hiansa MT 32	Annex 15
193	32	ROO	Ondulit Coverib 850	Annex 18
185	40	RI1		Annex 43
177	51	RAA	Eternit 177/51 (Wave)	Annex 2
171.5	35	RO1	IBR	Annex 49
160	41	RV3	Hoesch HP 41/160	Annex 45
151	38	RVV	Assan panel 38/151	Annex 20
144	24.5	RV1	Superpantera	Annex 31
143	34	RV2	Tecno Imac Greca 143	Annex 42
137.5	20	RV4	Trapezprofil W-20/1100	Annex 47
117	25	RJ3	Isolpack SL940	Annex 37
112	29	RJ2	Copernit Profilo 29	Annex 36
112	28	RJJ	Profilia LG28	Annex 13
111.8	28	RJ1	Alubel 28	Annex 14
88	24	RK2	Tecni Imac - Ecolina	Annex 44
78	21	RG1	Alubel 21	Annex 32
76.2	16	RKK	Omega 76.2/16	Annex 5
76	18	RGG	Greca 76/18	Annex 6
76	18	RUU	Onda 76/18	Annex 1
75	20	RG2	Grekor 20/52	Annex 35

**ANNEX 1 È WAVE 76/18 (Ref. RUU)**
**Macrolux® Rooflite® WAVE 76/18**

Section



<b>CODE</b>	E306	E310	E303
<b>THICKNESSES</b>	0.8 mm	1.0 mm	1.1 mm
<b>WEIGHT</b>	1.10 kg/m <sup>2</sup>	1.35 kg/m <sup>2</sup>	1.50 kg/m <sup>2</sup>
<b>WIDTH</b>	<b>Nominal (Sheet max)</b>		<b>Useable</b>
	660 mm		608 mm
	836 mm		900 mm
	1.040 mm		988 mm
	1.116 mm		1.064 mm
	1.265 mm		1.216 mm
<b>LENGTH</b>	6.000/7.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OR CURVATURE</b>	4.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60 mm with EPDM gasket (max every 304 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 304 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OR FOAMED PE</b>	Available in 988 mm bars		

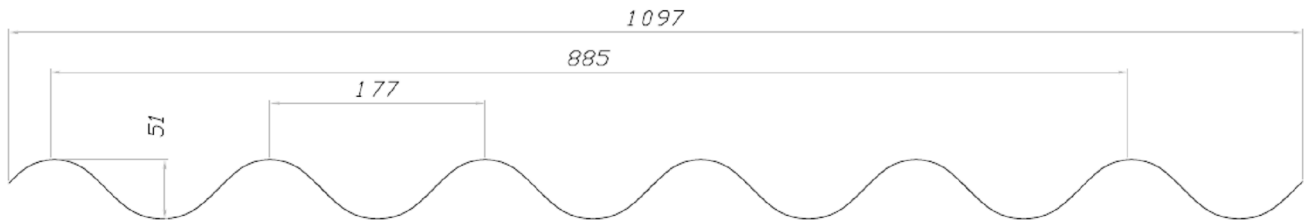
**✓ LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	1.000	900	850	800	800	700	650	600
1.0	1.050	950	900	850	850	750	700	650
1.1	1.100	1.000	900	850	850	800	750	700

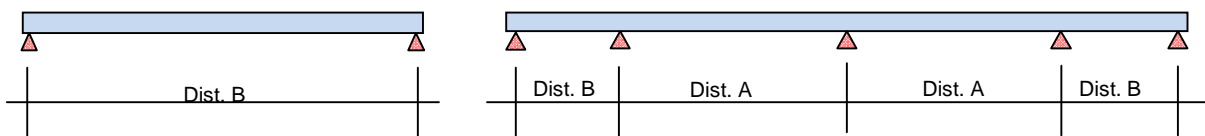
(\*) Ultimate load values (safety coefficient 1.5)

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**ANNEX 2 Ě WAVE 177/51 (Eternit) (Ref. RAA)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> WAVE 177/51**
**Section**

**✓ ETERNIT**

CODE	E381	E308	E304	E305
<b>THICKNESSES</b>	0.9 mm	1.0 mm	1.2 mm	1.4 mm
<b>WEIGHT</b>	1.31 kg/m <sup>2</sup>	1.45 kg/m <sup>2</sup>	1.70 kg/m <sup>2</sup>	2.00 kg/m <sup>2</sup>
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 920 mm <b>1.097 mm</b> 1.186 mm		<b>Useable</b> 708 mm <b>885 mm</b> 1.062 mm	
<b>LENGTH</b>	6.000 mm			
<b>AVAILABLE COLOURS</b>	Clear Opal			
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )			
<b>MINIMUM RADIUS OR CURVATURE</b>	11.500 mm			
<b>MINIMUM SLOPE</b>	5%			
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x100mm with EPDM gasket (max every 342 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 342 mm) Seaming plug (max every 300 mm)			
<b>SPACER MADE OF FOAMED PE</b>	available in 2000 mm bars			

**✓ LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


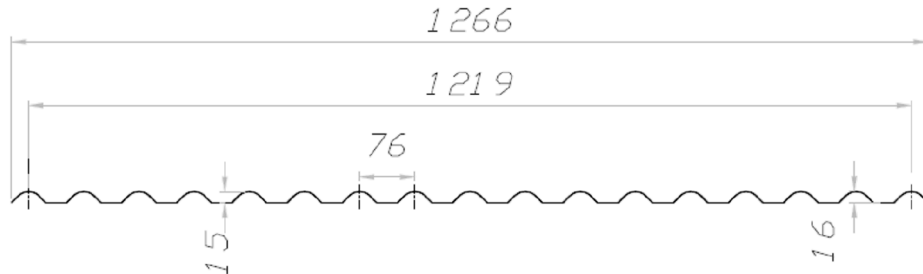
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1.600	1.450	1.350	1.250	1.250	1.150	1.050	1.000
1.0	1.650	1.500	1.350	1.300	1.300	1.200	1.100	1.050
1.2	1.700	1.550	1.450	1.350	1.350	1.250	1.150	1.100
1.4	1.750	1.600	1.500	1.400	1.400	1.300	1.200	1.150

(\*) Ultimate load values (safety coefficient 1.5)

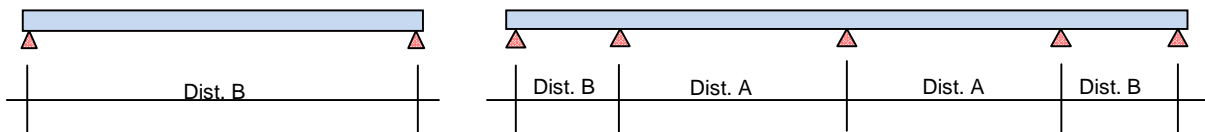
Purchase of Macrolux<sup>®</sup> Rooflite<sup>®</sup> sheets is subject to reserves, please check general sales conditions from our offices. Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices. For further laying conditions see the Macrolux<sup>®</sup> Rooflite<sup>®</sup> technical manual. All other company or product names, herein mentioned are registered trademarks belonging to the owners in question. Dimensional tolerances in according to EN 1013

**ANNEX 5 Æ OMEGA 76.2/16 (Ref. RKK-RK1)**
**Macrolux® Rooflite® OMEGA 76.2/16**

Section



<b>CODE</b>	E330	E329	
<b>THICKNESSES</b>	0.8 mm	1.0 mm	
<b>WEIGHT</b>	1.10 kg/m <sup>2</sup>	1.40 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.190 mm 1.266 mm		<b>Useable</b> 1.143 mm 1.219 mm
<b>LENGTH</b>	6000/7.000 mm		
<b>AVAILABLE COLOURS</b>	Clear, Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	4.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (max every 305 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 305 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	available in 2000 mm bars		

**✓ LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	950	850	800	750	750	700	650	600
1.0	1.000	900	850	800	800	750	700	650

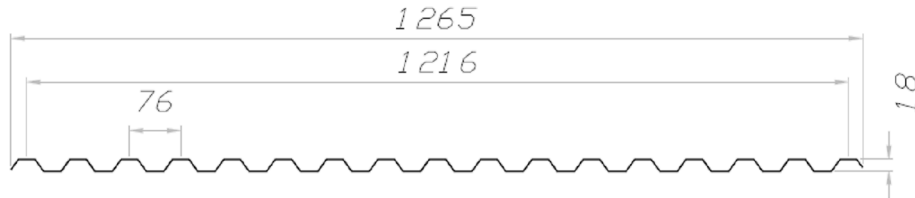
(\*) Ultimate load values (safety coefficient 1.5)

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**ANNEX 6 Ë TRAPEZ 76/18 (Ref. RGG)**

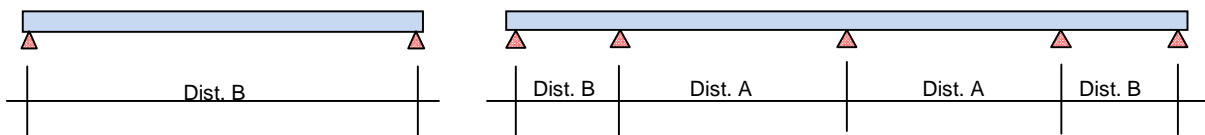
**Macrolux® Rooflite® TRAPEZ 76/18**

Section



<b>CODE</b>	E312	E354	E334	E313
<b>THICKNESSES</b>	0.8 mm	0.9 mm	1.0 mm	1.1 mm
<b>WEIGHT</b>	1.20 kg/m <sup>2</sup>	1.35 kg/m <sup>2</sup>	1.45 kg/m <sup>2</sup>	1.60 kg/m <sup>2</sup>
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 660 mm 807 mm 1.040 mm <b>1.265 mm</b>		<b>Useable</b> 608 mm 760 mm 988 mm <b>1.216 mm</b>	
<b>LENGTH</b>	6.000/7.000 mm			
<b>AVAILABLE COLOURS</b>	Clear, Opal, bronze, athermic			
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)			
<b>MINIMUM RADIUS OF CURVATURE</b>	4.000 mm			
<b>MINIMUM SLOPE</b>	5%			
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (max every 304 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 304 mm) Seaming plug (max every 300 mm)			
<b>SPACER MADE OF FOAMED PE</b>	available in 1000 mm bars			

✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**



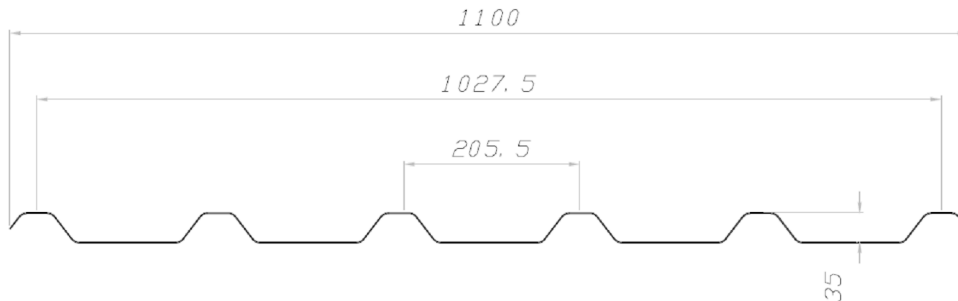
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	1.050	1.000	900	850	850	800	750	700
0.9	1.100	1.000	950	900	900	800	750	700
1.0	1.150	1.050	950	900	900	850	800	750
1.1	1.150	1.050	1.000	950	950	850	800	750

(\*) Ultimate load values (safety coefficient 1.5)

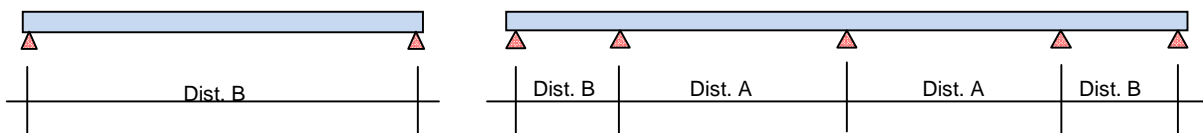
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**ANNEX 7 È TRAPEZ 205.5/35.4 (Ref. RBB)**
**Macrolux® Rooflite® TRAPEZ 205.5/35.4**

Section



<b>CODE</b>	E315	E316	
<b>THICKNESSES</b>	1.0 mm	1.2 mm	
<b>WEIGHT</b>	1.45 kg/m <sup>2</sup>	1.70 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.100 mm</b>		<b>Useable 1.027 mm</b>
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )		
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (max every 205 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 205 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

**✓ LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


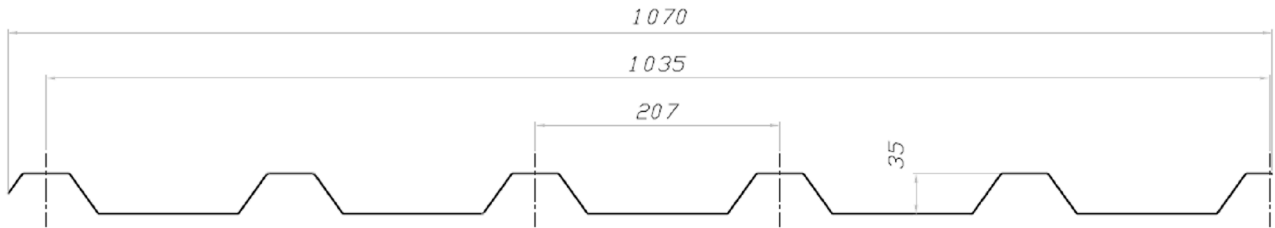
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.450	1.300	1.200	1.150	1.150	1.050	950	900
1.2	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950

(\*) Ultimate load values (safety coefficient 1.5)

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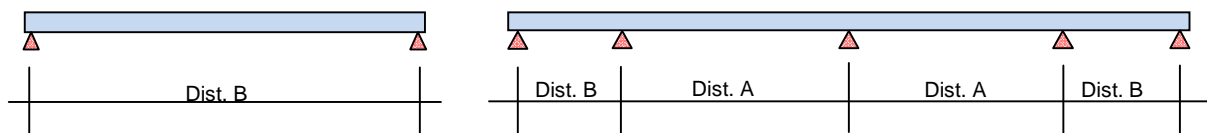
**ANNEX 8 Ë TRAPEZ 207/35 (Klockner 35/207) (Ref. RB1)**
**Macrolux® Rooflite® TRAPEZ 207/35**

Section



✓ KLOCKNER 35/207

<b>CODE</b>	E356	E361	
<b>THICKNESSES</b>	1.0 mm	1.2 mm	
<b>WEIGHT</b>	1.45 kg/m <sup>2</sup>	1.70 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.070 mm 1.100 mm		<b>Useable</b> 1.035 mm 1.035 mm
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (max every 207 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 207 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


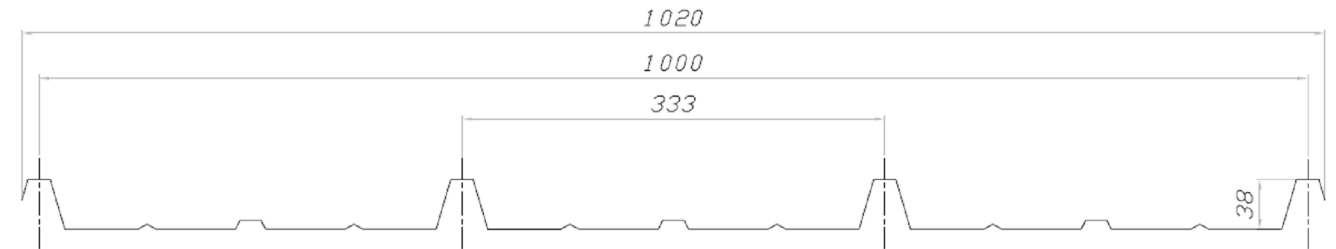
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.450	1.300	1.250	1.150	1.150	1.050	1.000	950
1.2	1.500	1.400	1.300	1.200	1.200	1.100	1.050	950

(\*) Ultimate load values (safety coefficient 1.5)

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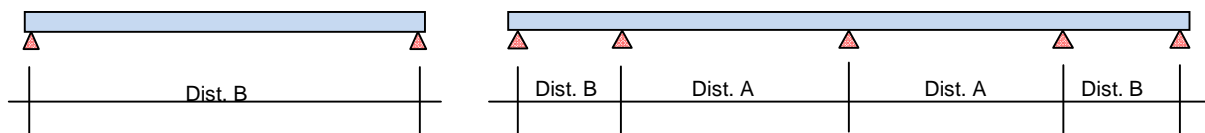
**ANNEX 9 È TRAPEZ 333/38 (Metecno A38) (Ref. RCC)**
**Macrolux® Rooflite® TRAPEZ 333/38**

Section



✓ METECNO A38

<b>CODE</b>	E318	E319	
<b>THICKNESSES</b>	1.0 mm	1.2 mm	
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>	1.80 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.020 mm</b>		<b>Useable 1.000 mm</b>
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Upper fret: Self-drilling 6.3x80mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 333 mm) Lower fret: Self-drilling 6.3x45mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 333 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Available in 1000 mm bars		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.400	1.250	1.100	1.000	1.100	1.000	950	900
1.2	1.450	1.300	1.200	1.100	1.150	1.050	1.000	950

(\*) Ultimate load values (safety coefficient 1.5)

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**ANNEX 10 È TRAPEZ 333/42 (Remco) (Ref. RDD)**

<b>Macrolux® Rooflite® TRAPEZ 333/42</b>								
Section 								
✓ REMCO								
<b>CODE</b>	E317							
<b>THICKNESSES</b>	1.0 mm							
<b>WEIGHT</b>	1.45 kg/m <sup>2</sup>							
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.040 mm</b>				<b>Useable</b> <b>1.000 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	9.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Upper fret: Self-drilling 6.3x80mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 333 mm) Lower fret: Self-drilling 6.3x45mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 333 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.500	1.350	1.250	1.150	1.200	1.100	1.000	950
(*) Ultimate load values (safety coefficient 1.5)								
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**ANNEX 11 Ë TRAPEZ 333/39 (Haironville 39/333) (Ref. RD1)**

<b>Macrolux® Rooflite® TRAPEZ 333.33/39</b>								
<b>Section</b> 								
✓ HAIRONVILLE 39/333								
<b>CODE</b>	E351		E386					
<b>THICKNESSES</b>	1.0 mm		1.2 mm					
<b>WEIGHT</b>	1.40 kg/m <sup>2</sup>		1.70 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.050 mm</b>				<b>Useable</b> <b>1.000 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Upper fret: Self-drilling 6.3x80mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 333 mm) Lower fret: Self-drilling 6.3x45mm with EPDM gasket every 333 mm Self-tapping for wood 6.5x60mm with EPDM gasket (max every 333 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.400	1.250	1.150	1.050	1.100	1.000	950	900
1.2	1.450	1.350	1.250	1.150	1.150	1.050	1.000	950
(*) Ultimate load values (safety coefficient 1.5)								
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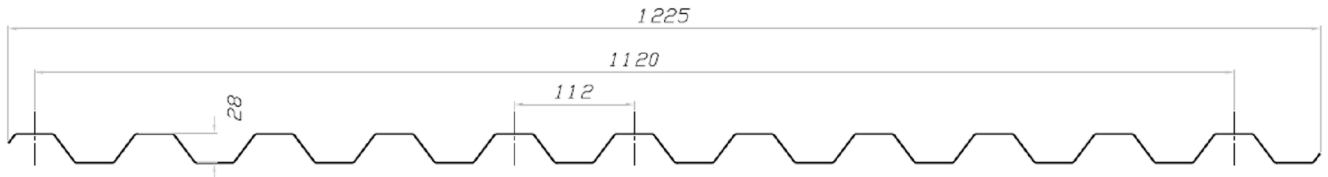


**ANNEX 12 Ë TRAPEZ 250/40 (5 greche) (Ref. RHH)**

<b>Macrolux® Rooflite® TRAPEZ 250/40</b>								
<b>Section</b>								
✓ 5 frets								
<b>CODE</b>	E344		E348		E349			
<b>THICKNESSES</b>	0.9 mm		1.0 mm		1.2 mm			
<b>WEIGHT</b>	1.40 kg/m <sup>2</sup>		1.50 kg/m <sup>2</sup>		1.80 kg/m <sup>2</sup>			
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.040 mm</b>				<b>Useable</b> <b>1.000 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1.450	1.300	1.250	1.150	1.150	1.050	1.000	950
1.0	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950
1.2	1.550	1.400	1.300	1.250	1.250	1.150	1.050	1.000
(*) Ultimate load values (safety coefficient 1.5)								
Purchase of Macrolux® Rooflite® sheets is subject to reserves, please check general sales conditions from our offices. Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices. For further laying conditions see the Macrolux® Rooflite® technical manual. All other company or product names, herein mentioned are registered trademarks belonging to the owners in question. Dimensional tolerances in according to EN 1013								

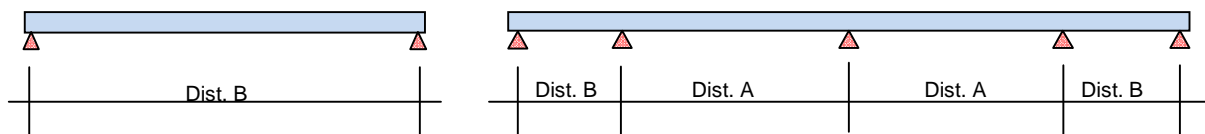
**ANNEX 13 È TRAPEZ 112/28 (Profilia LG 28) (Ref. RJJ)**
**Macrolux® Rooflite® TRAPEZ 112/28**

Section



✓ PROFILIA LG 28

<b>CODE</b>	E328		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.016 mm 1.225 mm	<b>Useable</b> 896 mm 1.120 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	6.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 336 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 336 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.300	1.200	1.100	1.050	1.050	950	900	850

(\*) Ultimate load values (safety coefficient 1.5)

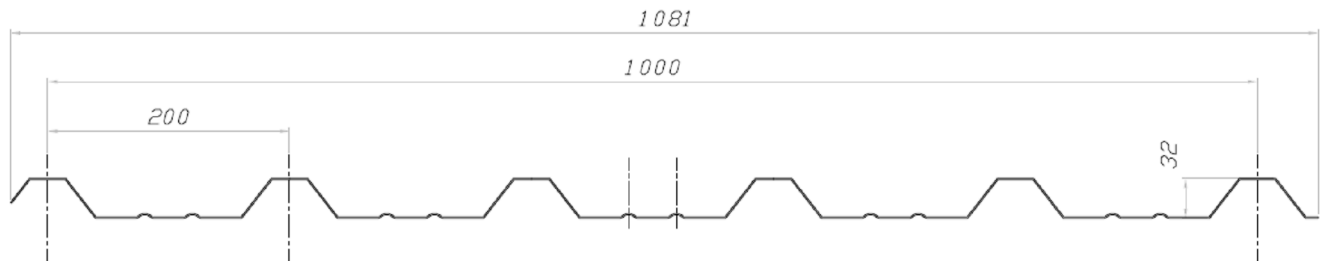
Purchase of Macrolux® Rooflite® sheets is subject to reserves, please check general sales conditions from our offices. Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices. For further laying conditions see the Macrolux® Rooflite® technical manual. All other company or product names, herein mentioned are registered trademarks belonging to the owners in question. Dimensional tolerances in according to EN 1013

**ANNEX 14 È TRAPEZ 111.8/29.1 (Alubel 28) (Ref. RJ1)**

<b>Macrolux® Rooflite® TRAPEZ 111.8/29.1</b>								
Section								
✓ ALUBEL 28								
<b>CODE</b>	E371		E390					
<b>THICKNESSES</b>	1.0 mm		1.1 mm					
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>		1.65 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.010 mm</b>			<b>Useable</b> <b>894 mm</b>				
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	6.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 336 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 336 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
	1.0	1.300	1.200	1.150	1.050	950	900	850
1.1	1.350	1.250	1.150	1.100	1.100	1.000	900	850
(*) Ultimate load values (safety coefficient 1.5)								
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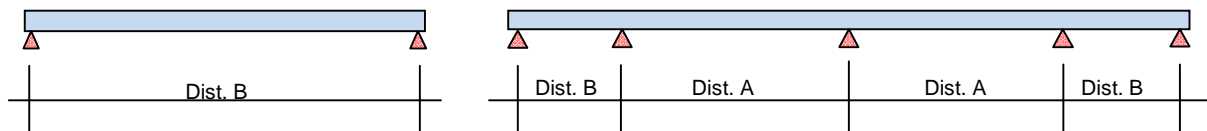
**ANNEX 15 È TRAPEZ 200/32 (Hiansa È MT32) (Ref. RLL)**
**Macrolux® Rooflite® TRAPEZ 200/32**

Section



✓ HIANSA MT-32

<b>CODE</b>	E393	E378	E339
<b>THICKNESSES</b>	0.85 mm	0.9 mm	1.0 mm
<b>WEIGHT</b>	1.20 kg/m <sup>2</sup>	1.26 kg/m <sup>2</sup>	1.40 kg/m <sup>2</sup>
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.081 mm 1.100 mm		<b>Useable</b> 1.000 mm 1.000 mm
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	7.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 200 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 200 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


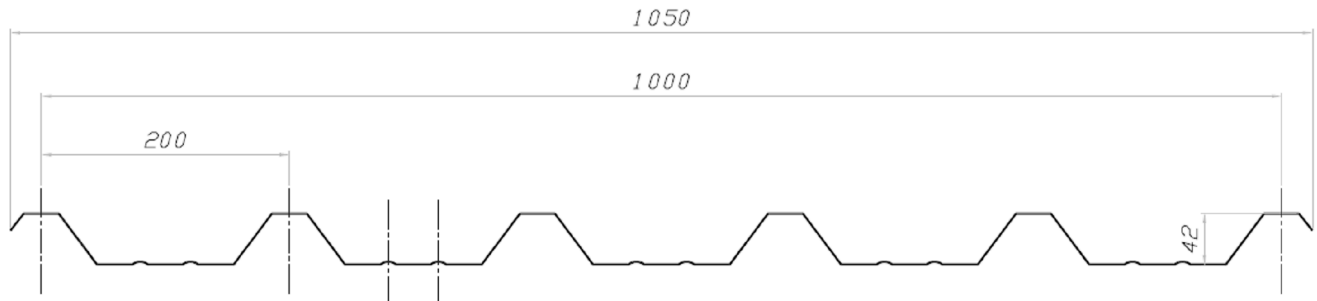
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.85	1.350	1.200	1.100	1.050	1.050	950	900	850
0.9	1.350	1.200	1.150	1.100	1.100	1.000	950	850
1.0	1.400	1.250	1.150	1.100	1.100	1.000	950	900

(\*) Ultimate load values (safety coefficient 1.5)

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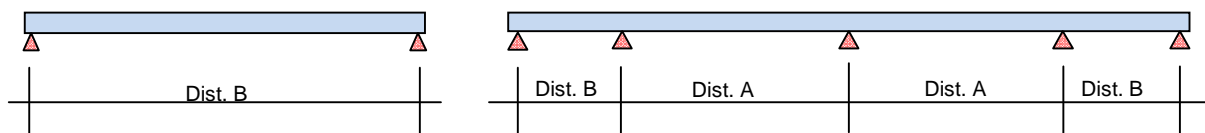
**ANNEX 16 È TRAPEZ 200/42 (Hiansa È MT42) (Ref. RII)**
**Macrolux® Rooflite® TRAPEZ 200/42**

Section



✓ HIANSA MT42

<b>CODE</b>	E338	E337	
<b>THICKNESSES</b>	1.0 mm	1.2 mm	
<b>WEIGHT</b>	1.45 kg/m <sup>2</sup>	1.75 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.050 mm</b>		<b>Useable 1.000 mm</b>
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	9.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 200 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 200 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.600	1.450	1.350	1.250	1.250	1.150	1.050	1.000
1.2	1.650	1.500	1.400	1.300	1.300	1.200	1.100	1.050

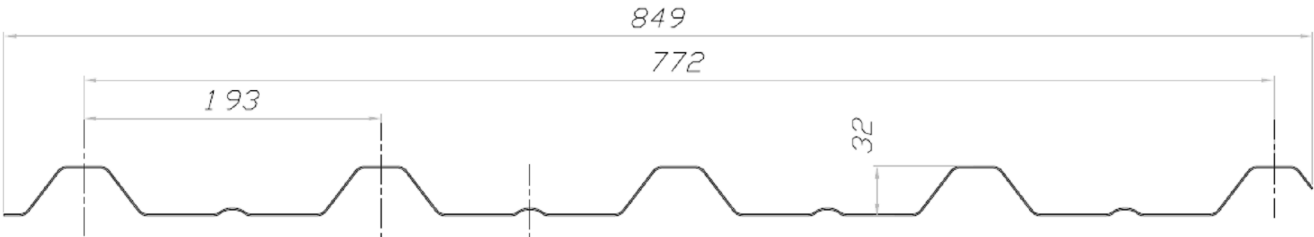
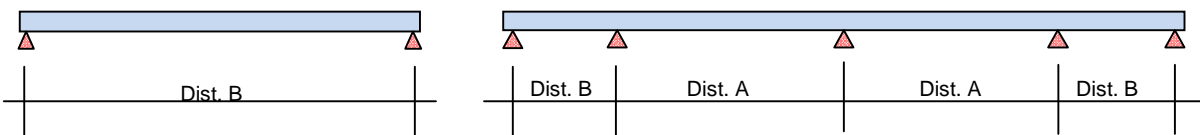
(\*) Ultimate load values (safety coefficient 1.5)

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**ANNEX 17 È TRAPEZ 333/45 (Nervesco 3.45.1000 TS) (Ref. RNN)**

<b>Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 333/45</b>								
<b>Section</b>								
✓ NERVESCO 3.45.1000 TS								
<b>CODE</b>	E333			E320				
<b>THICKNESSES</b>	1.0 mm			1.2 mm				
<b>WEIGHT</b>	1.45 kg/m <sup>2</sup>			1.70 kg/m <sup>2</sup>				
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.050 mm				<b>Useable</b> 1.000 mm			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	9.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Upper fret: Self-drilling 6.3x80mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 333 mm) Lower fret: Self-drilling 6.3x45mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 333 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	<b>Distance A</b>				<b>Distance B</b>			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.550	1.400	1.300	1.200	1.250	1.100	1.050	1.000
1.2	1.600	1.450	1.350	1.300	1.300	1.150	1.100	1.000
(*) Ultimate load values (safety coefficient 1.5)								
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**ANNEX 18 Ë TRAPEZ 193/32 (Ondulit Coverib 850) (Ref. ROO)**

<b>Macrolux® Rooflite® TRAPEZ 193/32</b>								
Section								
								
✓ ONDULIT COVERIB 850								
<b>CODE</b>	E335		E336					
<b>THICKNESSES</b>	1.0 mm		1.2 mm					
<b>WEIGHT</b>	1.45 kg/m <sup>2</sup>		1.75 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max) 849 mm</b>				<b>Useable 772 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	7.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 193 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 193 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.350	1.250	1.150	1.100	1.100	1.000	900	850
1.2	1.400	1.300	1.200	1.150	1.150	1.050	950	900
(*) Ultimate load values (safety coefficient 1.5)								
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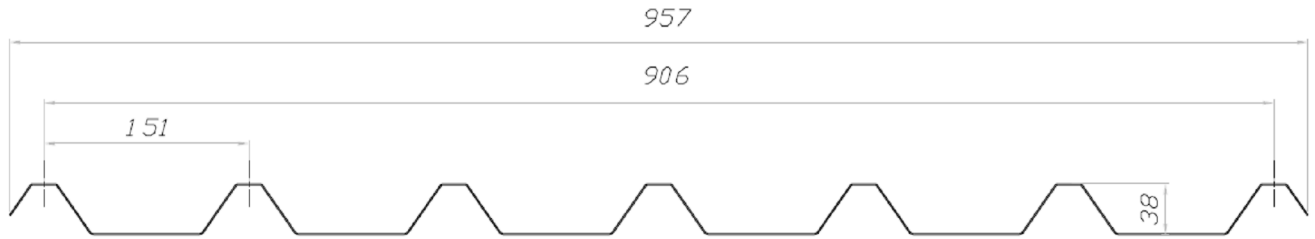
**ANNEX 19 Ë TRAPEZ 262.5/32 (Teczone TZ-32) (Ref. RPP)**

<b>Macrolux® Rooflite® TRAPEZ 262.5/32</b>								
Section 								
<b>CODE</b>	E331		E332					
<b>THICKNESSES</b>	0.8 mm		1.0 mm					
<b>WEIGHT</b>	1.10 kg/m <sup>2</sup>		1.35 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.122 mm</b>				<b>Useable 1.050 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	7.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 262 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 262 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	1.250	1.150	1.050	95	1.000	900	850	800
1.0	1.350	1.200	1.150	1.050	1.050	950	9050	850
(*) Ultimate load values (safety coefficient 1.5)								
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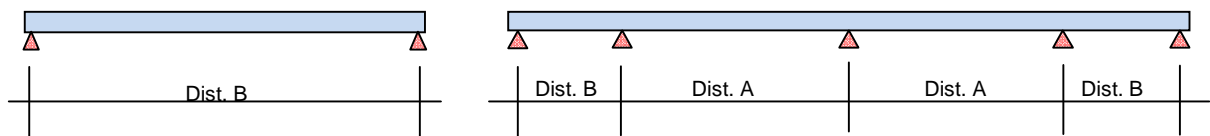
**ANNEX 20 Ë TRAPEZ 151/38 (Assanpanel 38/151) (Ref. RVV)**
**Macrolux® Rooflite® TRAPEZ 151/38**

Section



✓ ASSANPANEL 38/151

<b>CODE</b>	E395	E376	
<b>THICKNESSES</b>	1.0 mm	1.2 mm	
<b>WEIGHT</b>	1.55 kg/m <sup>2</sup>	1.86 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max) 957 mm</b>		<b>Useable 906 mm</b>
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 302 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 302 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


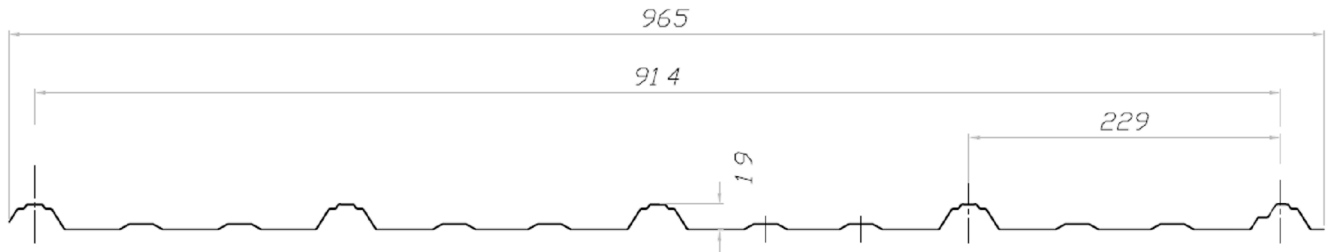
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950
1.2	1.550	1.400	1.300	1.250	1.250	1.150	1.050	1.000

(\*) Ultimate load values (safety coefficient 1.5)

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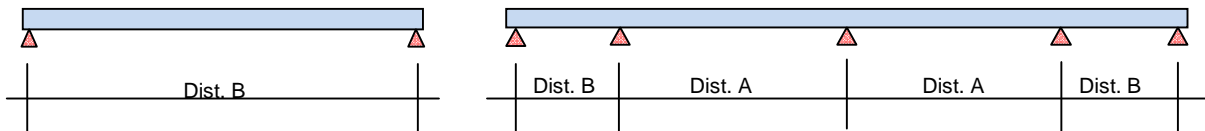
**ANNEX 21 È TRAPEZ 228.6/19.05 (9Î x 3/4Î) (MB9) (Ref. RWW)**
**Macrolux® Rooflite® TRAPEZ 228.6/19.05**

Section



✓ MB9

<b>CODE</b>	E346		
<b>THICKNESSES</b>	0.8 mm		
<b>WEIGHT</b>	1.10 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 965 mm	<b>Useable</b> 914 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	4.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 229 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 229 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	900	750	650	600	700	650	600	550

(\*) Ultimate load values (safety coefficient 1.5)

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**ANNEX 22 È TRAPEZ 304.8/31.8 (12Î x 1Î 1/4) (MB12) (Ref. RZZ)**

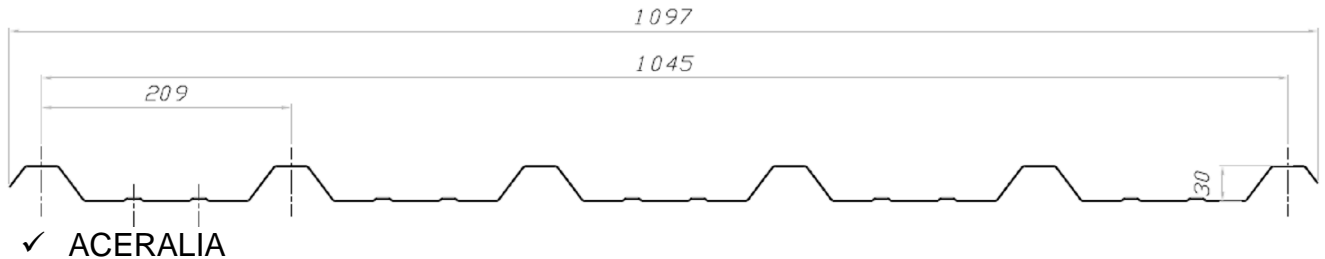
<b>Macrolux® Rooflite® TRAPEZ 304.8/31.8</b>								
Section								
✓ MB12								
<b>CODE</b>	E372		E342					
<b>THICKNESSES</b>	0.7 mm		0.8 mm					
<b>WEIGHT</b>	0.965 kg/m <sup>2</sup>		1.10 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>965 mm</b>				<b>Useable</b> <b>914 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	7.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 305 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 305 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.7	1.150	1.050	950	850	900	850	800	750
0.8	1.200	1.100	1.000	900	950	900	850	800
(*) Ultimate load values (safety coefficient 1.5)								
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**ANNEX 23 Ě TRAPEZ 250/40 (Cobacier 1004) (Ref. RXX)**

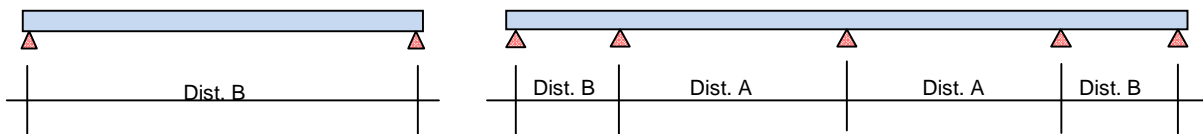
<b>Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 250/40</b>								
Section 								
✓ COBACIER 1004								
<b>CODE</b>	E383		E352					
<b>THICKNESSES</b>	0.9 mm		1.0 mm					
<b>WEIGHT</b>	1.305 kg/m <sup>2</sup>		1.45 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.050 mm</b>				<b>Useable</b> <b>1.000 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/^{\circ}\text{C}$ )							
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1.400	1.250	1.200	1.100	1.100	1.000	950	900
1.0	1.450	1.300	1.250	1.150	1.150	1.050	1.000	950
(*) Ultimate load values (safety coefficient 1.5)								
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**ANNEX 24 - TRAPEZ 209/30 (Aceralia) (Ref. RYY)**
**Macrolux® Rooflite® TRAPEZ 209/30**

Section



<b>CODE</b>	E3B5	E326	
<b>THICKNESSES</b>	0.9 mm	1.0 mm	
<b>WEIGHT</b>	1.26 kg/m <sup>2</sup>	1.40 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.097 mm</b>		<b>Useable 1.045 mm</b>
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )		
<b>MINIMUM RADIUS OF CURVATURE</b>	7.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 209 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 209 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

**✓ LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1250	1150	1050	1000	1000	900	850	800
1.0	1300	1200	1100	1050	1050	950	900	850

(\*) Ultimate load values (safety coefficient 1.5)

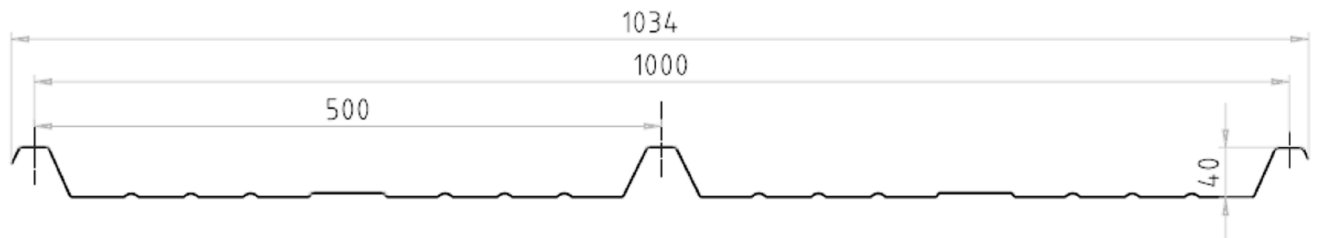
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**ANNEX 25 - TRAPEZ 275/30 (Ref. RX2)**

<b>Macrolux® Rooflite® TRAPEZ 275/30</b>								
<b>Section</b> 								
<b>CODE</b>	E360		E375					
<b>THICKNESSES</b>	0.8 mm		1.0 mm					
<b>WEIGHT</b>	1.07 kg/m <sup>2</sup>		1.35 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.174 mm</b>			<b>Useable</b> <b>1.100 mm</b>				
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )							
<b>MINIMUM RADIUS OF CURVATURE</b>	7.000 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 275 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 275 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	1.150	1.050	900	800	900	800	750	750
1.0	1.250	1.150	1.050	1.000	1.000	900	850	800
(*) Ultimate load values (safety coefficient 1.5)								
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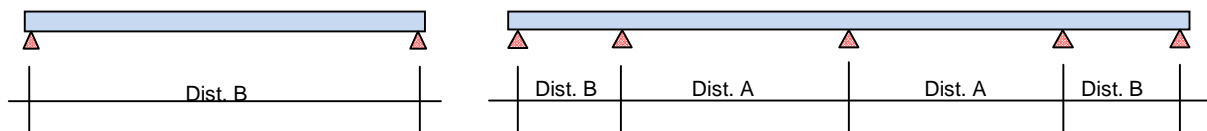
**ANNEX 26 - TRAPEZ 500/41 (Isolpack - Delta 3A) (Ref. RH2)**
**Macrolux® Rooflite® TRAPEZ 500/41**

Section



✓ ISOLPACK (Delta 3A)

<b>CODE</b>	E388	E358	
<b>THICKNESSES</b>	0.9 mm	1.2 mm	
<b>WEIGHT</b>	1.27 kg/m <sup>2</sup>	1.70 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.034 mm</b>		<b>Useable 1.000 mm</b>
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Upper fret: Self-drilling 6.3x80mm with EPDM gasket (every 500 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 500 mm) Lower fret: Self-drilling 6.3x45mm with EPDM gasket (every 500 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 500 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1.300	1.100	1.000	900	1.050	950	900	850
1.2	1.400	1.300	1.100	1.000	1.150	1.050	950	900

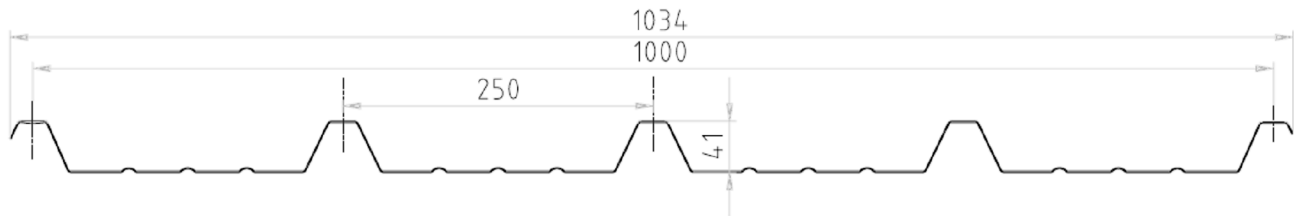
(\*) Ultimate load values (safety coefficient 1.5)

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**ANNEX 27 - TRAPEZ 250/41 (Isolpack - Delta 5A) (Ref. RH3)**

**Macrolux® Rooflite® TRAPEZ 250/41**

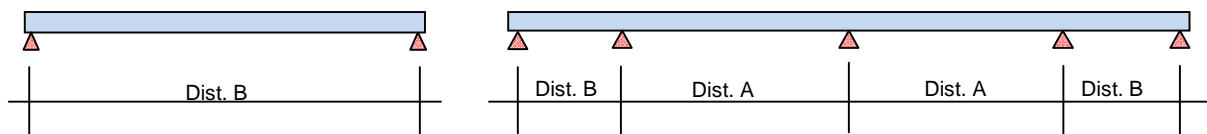
Section



✓ ISOLPACK (Delta 5A)

<b>CODE</b>	E365		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.034 mm</b>	<b>Useable 1.000 mm</b>	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**



Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950

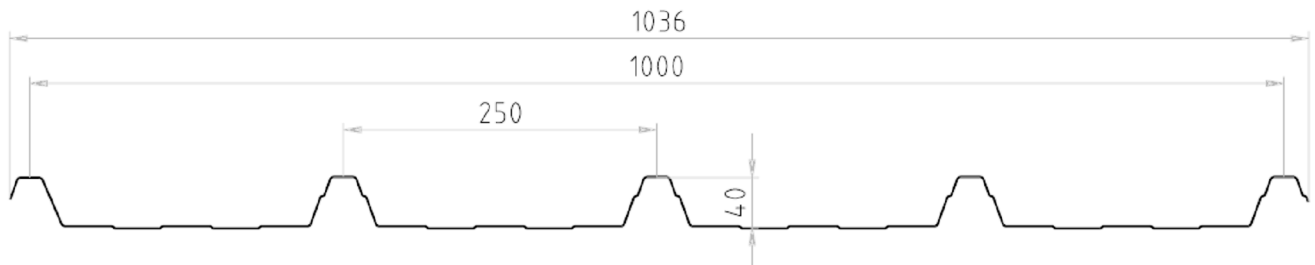
(\*) Ultimate load values (safety coefficient 1.5)

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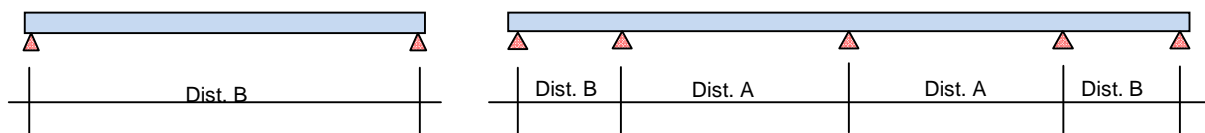
**ANNEX 28 - TRAPEZ 250/41.9 (Italpanelli - Penta) (Ref. RX3)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 250/41.9**

Section



✓ ITALPANELLI (Penta)

<b>CODE</b>	E363		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.036 mm	<b>Useable</b> 1.000 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

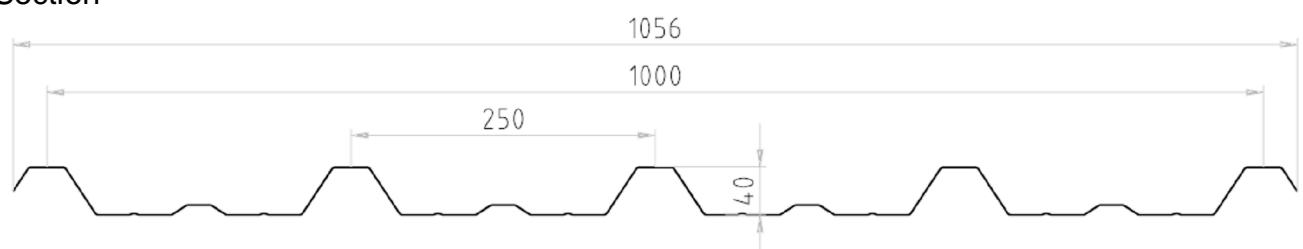
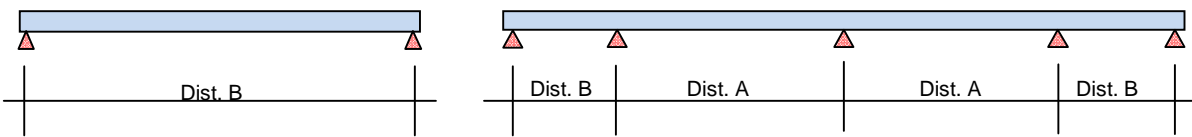
 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950

(\*) Ultimate load values (safety coefficient 1.5)

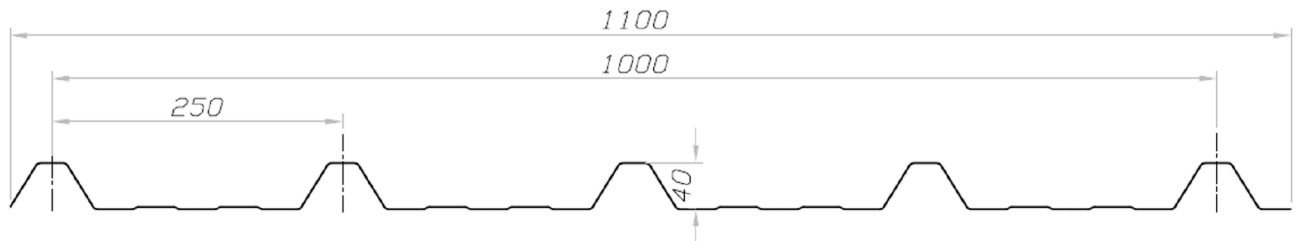
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**ANNEX 29 - TRAPEZ 250/40 (Isolpack - RW1000) (Ref. RH1)**

<b>Macrolux® Rooflite® TRAPEZ 250/40</b>								
Section 								
✓ ISOLPACK (RW1000)								
<b>CODE</b>	E377							
<b>THICKNESSES</b>	0.9 mm							
<b>WEIGHT</b>	1.35 kg/m <sup>2</sup>							
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.056 mm</b>				<b>Useable</b> <b>1.000 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )							
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	available in 1000 mm bars							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1.450	1.300	1.250	1.150	1.150	1.050	1.000	950
(*) Ultimate load values (safety coefficient 1.5)								
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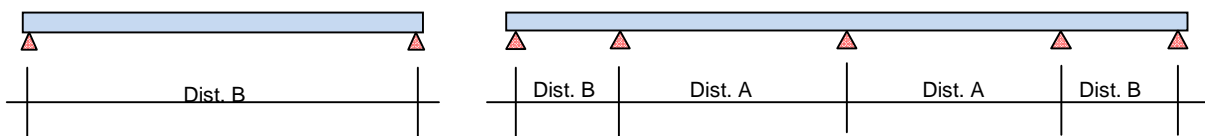
**ANNEX 30 - TRAPEZ 250/40 (IKON - Utap) (Ref. RX1)**
**Macrolux® Rooflite® TRAPEZ 250/40**

Section



✓ IKON-Utap

<b>CODE</b>	E355		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.100 mm	<b>Useable</b> 1.000 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )		
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


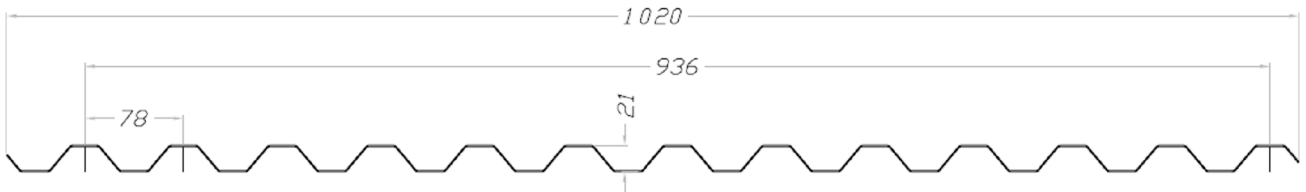
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.500	1.350	1.250	1.200	1.200	1.050	1.000	950

(\*) Ultimate load values (safety coefficient 1.5)

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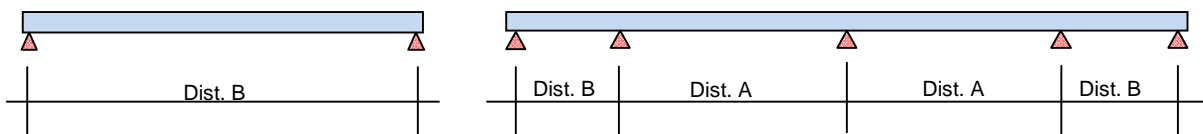
**ANNEX 31 - TRAPEZ 144/24.5 (Superpantera) (Ref. RV1)**

<b>Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 144/24.5</b>								
Section								
✓ Superpantera								
<b>CODE</b>	E357		E374					
<b>THICKNESSES</b>	0.8 mm		1.0 mm					
<b>WEIGHT</b>	1.10 kg/m <sup>2</sup>		1.375 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.061 mm</b>				<b>Useable 1.008 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	5.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 288 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 288 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	1.100	1.000	950	900	900	800	750	700
1.0	1.200	1.050	1.000	950	950	850	800	750
(*) Ultimate load values (safety coefficient 1.5)								
Purchase of Macrolux <sup>®</sup> Rooflite <sup>®</sup> sheets is subject to reserves, please check general sales conditions from our offices. Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices. For further laying conditions see the Macrolux <sup>®</sup> Rooflite <sup>®</sup> technical manual. All other company or product names, herein mentioned are registered trademarks belonging to the owners in question. Dimensional tolerances in according to EN 1013								

**ANNEX 32 - TRAPEZ 78/21 (Alubel 21) (Ref. RG1)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 78/21**
**Section**


✓ Alubel 21

<b>CODE</b>	E379		
<b>THICKNESSES</b>	0.9 mm		
<b>WEIGHT</b>	1.33 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.020 mm	<b>Useable</b> 936 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )		
<b>MINIMUM RADIUS OF CURVATURE</b>	5.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 312 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 312 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


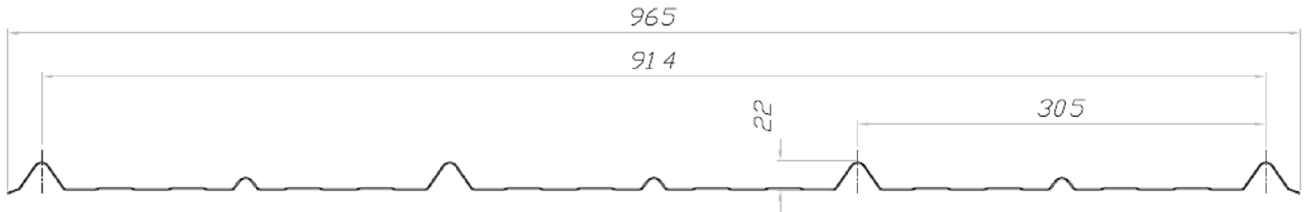
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1.100	1.000	900	850	850	800	750	700

(\*) Ultimate load values (safety coefficient 1.5)

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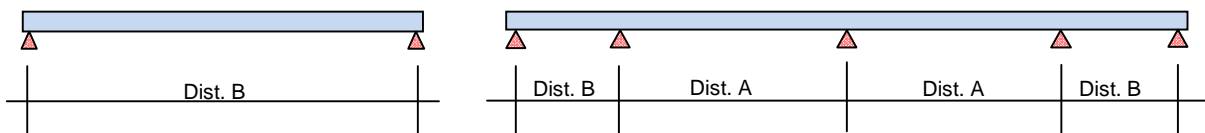
**ANNEX 33 - TRAPEZ 305/22 (Andex Ę Century Rib) (Ref. RC1)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 305/22**

Section



✓ Andex . Century Rib

<b>CODE</b>	E359		
<b>THICKNESSES</b>	0.8 mm		
<b>WEIGHT</b>	1.10 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 965 mm	<b>Useable</b> 914 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	5.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 305 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 305 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

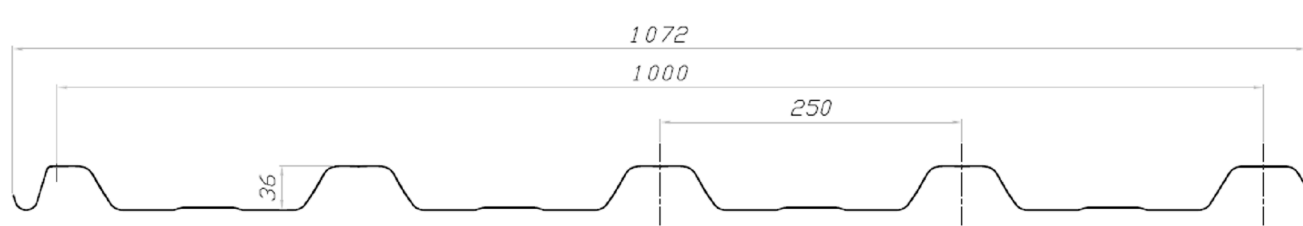
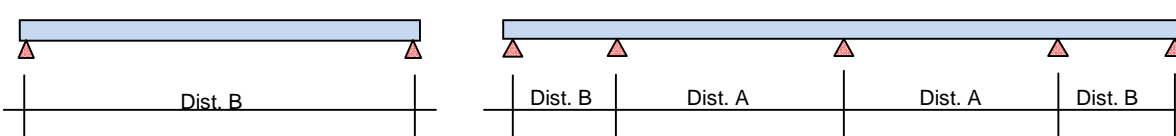
 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


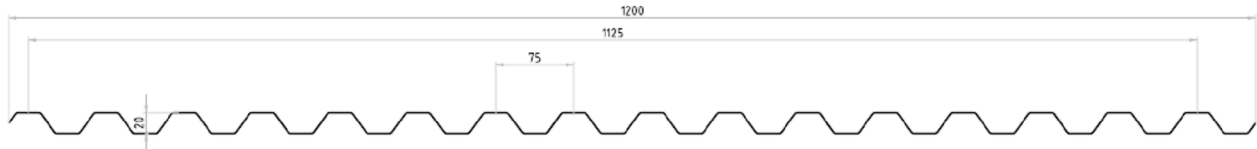
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.8	600	500	450	400	600	500	450	400

(\*) Ultimate load values (safety coefficient 1.5)

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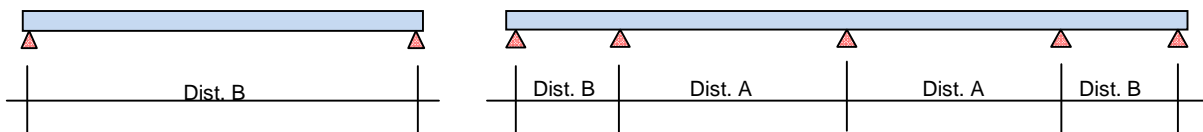
**ANNEX 34 - TRAPEZ 250/36 (SAB Ë KD36) (Ref. RP1)**

<b>Macrolux® Rooflite® TRAPEZ 250/36</b>								
Section 								
✓ SAB KD36								
<b>CODE</b>	E364							
<b>THICKNESSES</b>	1.0 mm							
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>							
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.072 mm</b>				<b>Useable</b> <b>1.000 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.500	1.350	1.250	1.200	1.200	1.050	1.000	950
(*) Ultimate load values (safety coefficient 1.5)								
Purchase of Macrolux® Rooflite® sheets is subject to reserves, please check general sales conditions from our offices. Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices. For further laying conditions see the Macrolux® Rooflite® technical manual. All other company or product names, herein mentioned are registered trademarks belonging to the owners in question. Dimensional tolerances in according to EN 1013								

**ANNEX 35 - TRAPEZ 75/20 (Grekor Ë 20/52) (Ref. RG2)**
**Macrolux® Rooflite® TRAPEZ 75/20**
**Section**


✓ Grekor 20/52

<b>CODE</b>	E366		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.51 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> <b>1.200 mm</b> 982 mm	<b>Useable</b> <b>1.125 mm</b> 900 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	5.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 300 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 300 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

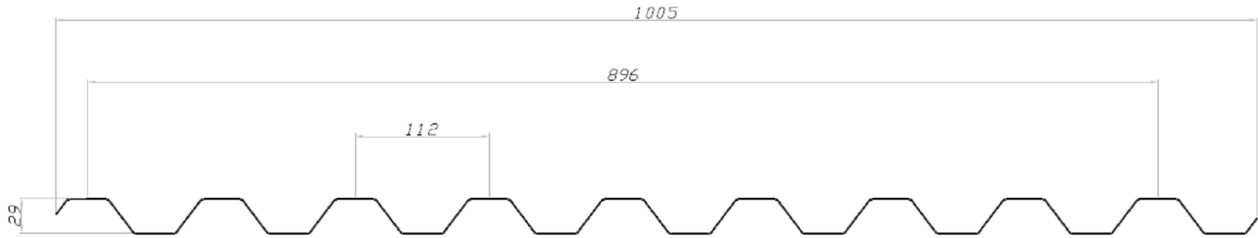
 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.150	1.050	950	900	900	800	750	750

(\*) Ultimate load values (safety coefficient 1.5)

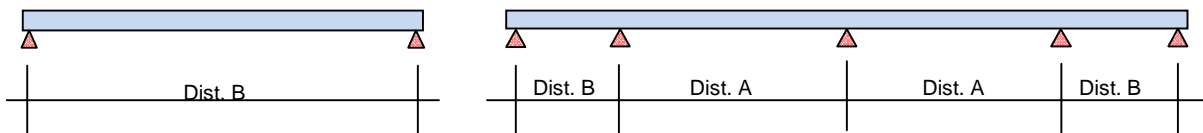
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**ANNEX 36 - TRAPEZ 112/29 (Copernit Ę Profilo 29) (Ref. RJ2)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 112/29**
**Section**


✓ Copernit . Profilo 29

<b>CODE</b>	E391		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.50 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.005 mm	<b>Useable</b> 896 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	6.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 336 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 336 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


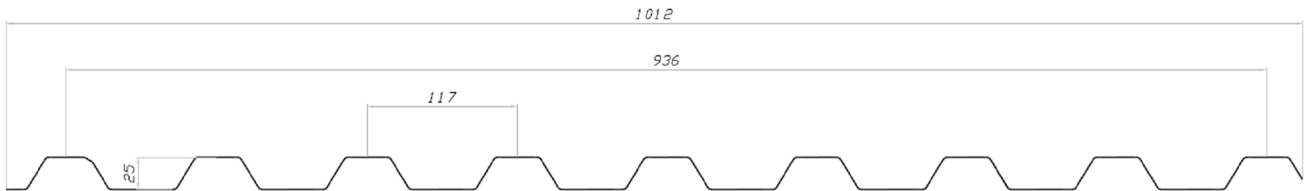
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.350	1.250	1.150	1.100	1.100	1.000	900	850

(\*) Ultimate load values (safety coefficient 1.5)

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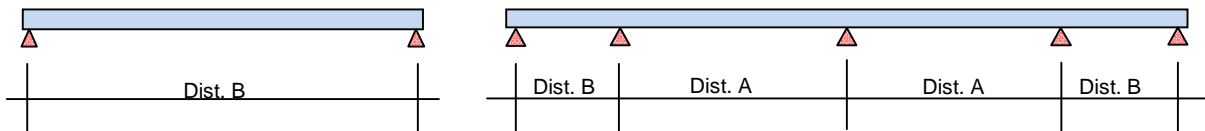
**ANNEX 37 - TRAPEZ 117/25 (Isolpack Ë SL 940) (Ref. RJ3)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 117/25**

## Section



✓ Isolpack . SL 940

<b>CODE</b>	E392		
<b>THICKNESSES</b>	0.9 mm		
<b>WEIGHT</b>	1.33 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.012 mm	<b>Useable</b> 936 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	5.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 351 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 351 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


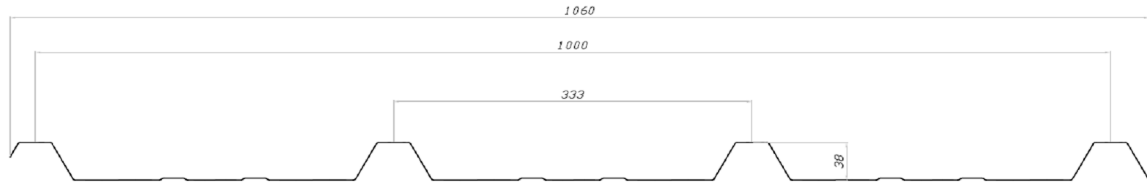
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.9	1.250	1.150	1.050	1.000	1.000	900	850	800

(\*) Ultimate load values (safety coefficient 1.5)

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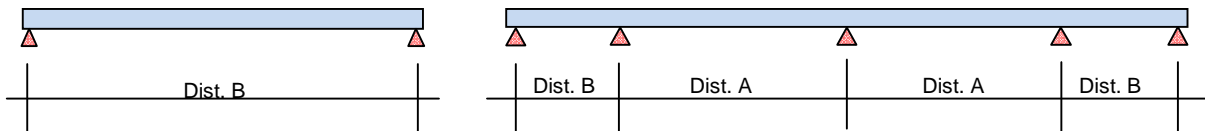
**ANNEX 38 - TRAPEZ 333.5/38 (Scope E 333.5x38) (Ref. RN1)**
**Macrolux® Rooflite® TRAPEZ 333.3/38**

Section



✓ Scope . 333.5x38

<b>CODE</b>	E367	E394	
<b>THICKNESSES</b>	1.0 mm	1.2 mm	
<b>WEIGHT</b>	1.475 kg/m <sup>2</sup>	1.80 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.060 mm</b>		<b>Useable 1.000 mm</b>
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 333 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 333 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


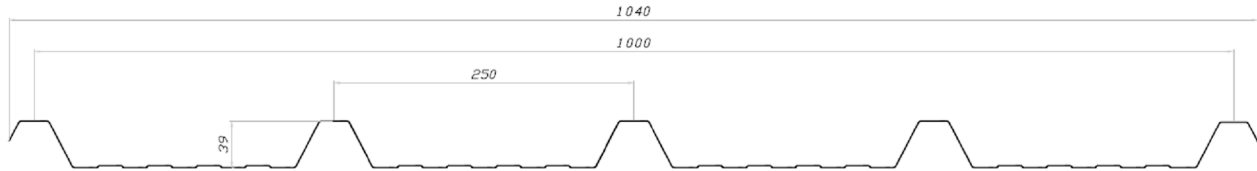
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.450	1.300	1.200	1.100	1.150	1.050	950	900
1.2	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950

(\*) Ultimate load values (safety coefficient 1.5)

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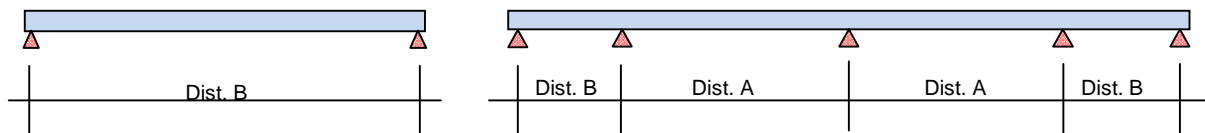
**ANNEX 40 - TRAPEZ 250/40 (Alubel Ę Dach) (Ref. RX4)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 250/40**

Section



✓ Alubel . Dach

<b>CODE</b>	E397	
<b>THICKNESSES</b>	1.0 mm	
<b>WEIGHT</b>	1.46 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.040 mm	<b>Useable</b> 1.000 mm
<b>LENGTH</b>	6.000 mm	
<b>AVAILABLE COLOURS</b>	Clear Opal	
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )	
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm	
<b>MINIMUM SLOPE</b>	5%	
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)	
<b>SPACER MADE OF FOAMED PE</b>	Not available	

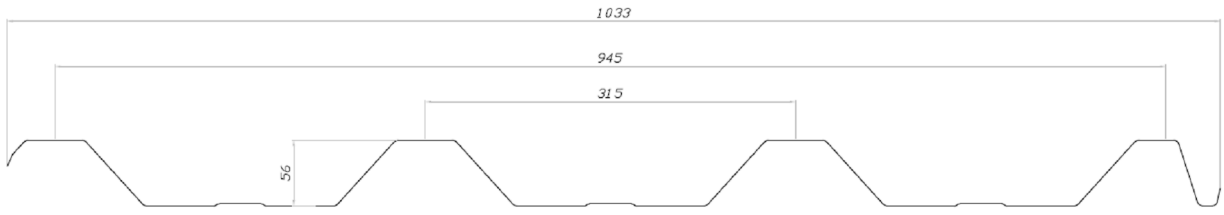
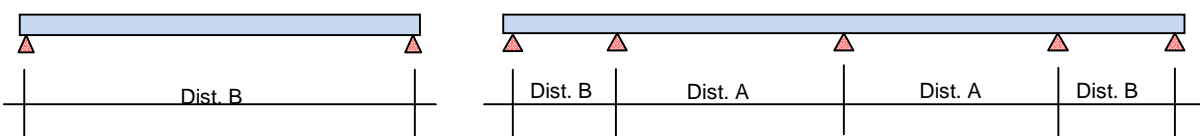
 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.500	1.350	1.250	1.200	1.200	1.050	1.000	950

(\*) Ultimate load values (safety coefficient 1.5)

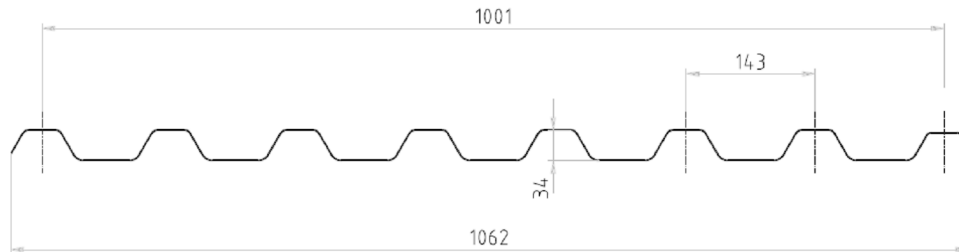
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**ANNEX 41 - TRAPEZ 315/56.8 (SAB Ë 58KD/945) (Ref. RZ2)**

<b>Macrolux® Rooflite® TRAPEZ 315/56.8</b>								
Section 								
✓ SAB . 58KD/945								
<b>CODE</b>	E368		E369					
<b>THICKNESSES</b>	1.0 mm		1.2 mm					
<b>WEIGHT</b>	1.45 kg/m <sup>2</sup>		1.70 kg/m <sup>2</sup>					
<b>WIDTH</b>	<b>Nominal (Sheet max) 1.033 mm</b>				<b>Useable 945 mm</b>			
<b>LENGTH</b>	6.000 mm							
<b>AVAILABLE COLOURS</b>	Clear Opal							
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
<b>MINIMUM RADIUS OF CURVATURE</b>	12.500 mm							
<b>MINIMUM SLOPE</b>	5%							
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x100mm with EPDM gasket (every 315 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 315 mm) Seaming plug (max every 300 mm)							
<b>SPACER MADE OF FOAMED PE</b>	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.850	1.650	1.550	1.450	1.450	1.350	1.250	1.150
1.2	1.900	1.750	1.600	1.550	1.550	1.400	1.300	1.250
(*) Ultimate load values (safety coefficient 1.5)								
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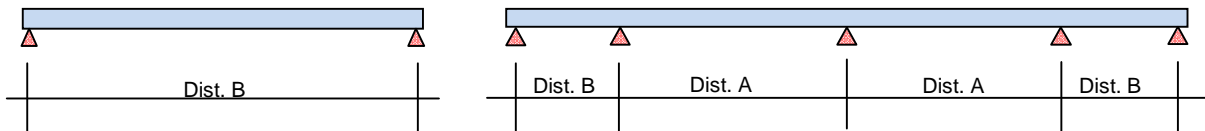
**ANNEX 42 - TRAPEZ 143/34 (Tecno Imac ĘGrecia 143) (Ref. RV2)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 143/34**

Section



✓ TECNO IMAC Greca 143

<b>CODE</b>	E396		
<b>THICKNESSES</b>	1.1 mm		
<b>WEIGHT</b>	1.65 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.062 mm	<b>Useable</b> 1.001 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	12.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 286 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 286 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


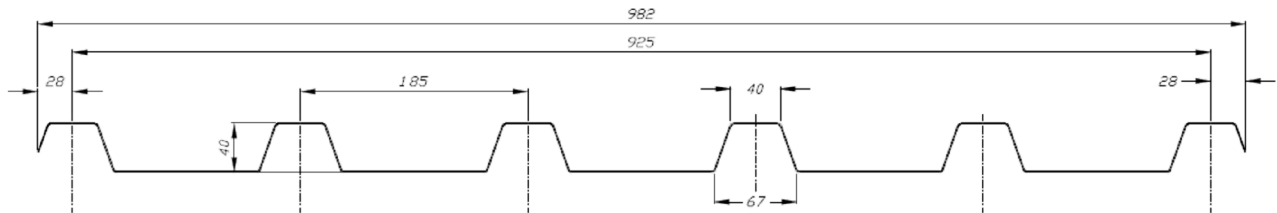
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.1	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950

(\*) Ultimate load values (safety coefficient 1.5)

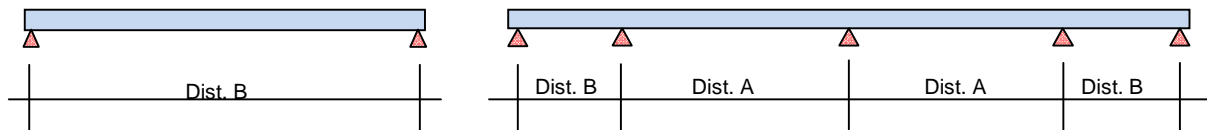
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**ANNEX 43 - TRAPEZ 185/40 (Ref. R11)**
**Macrolux<sup>®</sup> Rooflite<sup>®</sup> TRAPEZ 185/40**

Section



<b>CODE</b>	E389	E387
<b>THICKNESSES</b>	1.0 mm	1.2 mm
<b>WEIGHT</b>	1.56 kg/m <sup>2</sup>	1.87 kg/m <sup>2</sup>
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 982 mm	<b>Useable</b> 925 mm
<b>LENGTH</b>	6.000 mm	
<b>AVAILABLE COLOURS</b>	Clear Opal	
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5}$ 1/°C)	
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm	
<b>MINIMUM SLOPE</b>	5%	
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 185 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 185 mm) Seaming plug (max every 300 mm)	
<b>SPACER MADE OF FOAMED PE</b>	Not available	

**✓ LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


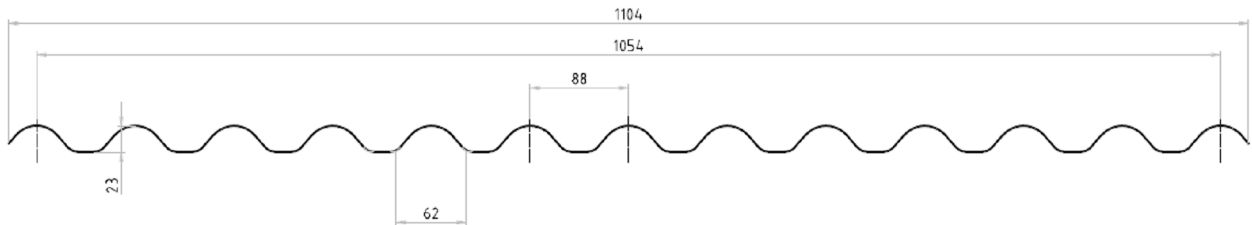
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.600	1.450	1.350	1.300	1.300	1.150	1.100	1.050
1.2	1.700	1.500	1.400	1.350	1.350	1.200	1.150	1.100

(\*) Ultimate load values (safety coefficient 1.5)

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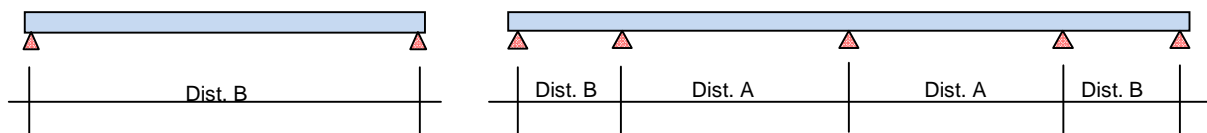
**ANNEX 44 - OMEGA 88/24 (Ref. RK2)**

# Macrolux<sup>®</sup> Rooflite<sup>®</sup> OMEGA 88/24

**Section**


✓ TECNO IMAC ECOLINA

<b>CODE</b>	E3A6	
<b>THICKNESSES</b>	1.0 mm	
<b>WEIGHT</b>	1.435 kg/m <sup>2</sup>	
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.104 mm	<b>Useable</b> 1.054 mm
<b>LENGTH</b>	6.000 mm	
<b>AVAILABLE COLOURS</b>	Clear Opal	
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)	
<b>MINIMUM RADIUS OF CURVATURE</b>	5.500 mm	
<b>MINIMUM SLOPE</b>	5%	
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 352 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 352 mm) Seaming plug (max every 300 mm)	
<b>SPACER MADE OF FOAMED PE</b>	Not available	

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.0	1.150	1.050	950	900	900	850	800	750

(\*) Ultimate load values (safety coefficient 1.5)

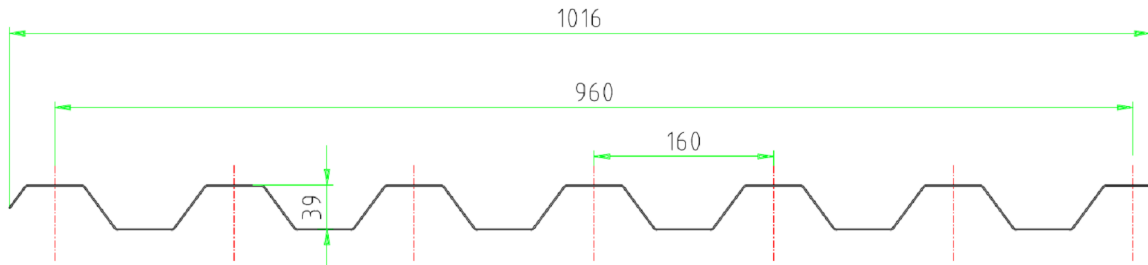
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**ANNEX 45 È TRAPEZ 160/41(Hoesch HP 41/160) (Ref. RV3)**

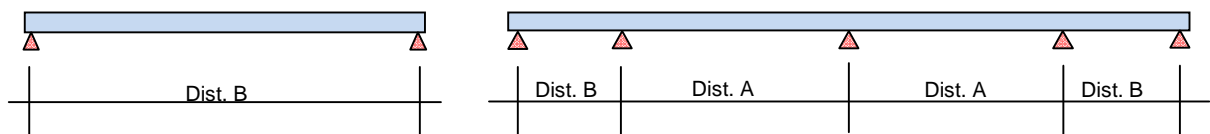
# Macrolux® Rooflite® Trapez 160/41

Sezione



✓ HOESCH HP 41/160

<b>CODE</b>	E380		
<b>THICKNESSES</b>	1.2 mm		
<b>WEIGHT</b>	1.80 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.016 mm	<b>Useable</b> 960 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C ( $6.5 \times 10^{-5} 1/°C$ )		
<b>MINIMUM RADIUS OF CURVATURE</b>	9.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 320 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 320 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


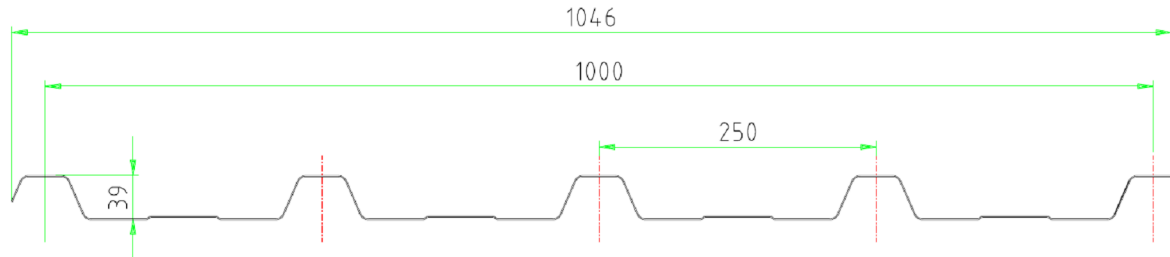
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.2	1.650	1.500	1.400	1.300	1.300	1.200	1.110	1.050

(\*) Ultimate load values (safety coefficient 1.5)

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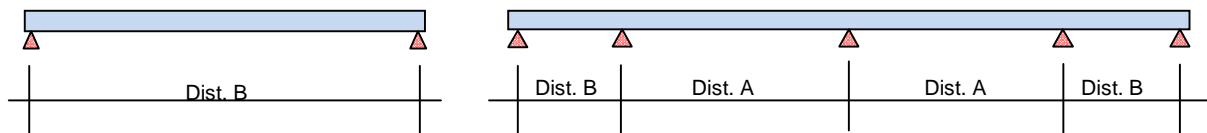
**ANNEX 46 È TRAPEZ 250/39 (Hoesch HP 39/250) (Ref. RH4)**
**Macrolux® Rooflite® TRAPEZ 250/39**

Sezione



✓ HOESCH HP 39/250

<b>CODE</b>	E382		
<b>THICKNESSES</b>	1.2 mm		
<b>WEIGHT</b>	1.75 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.046 mm	<b>Useable</b> 1.000 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 250 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


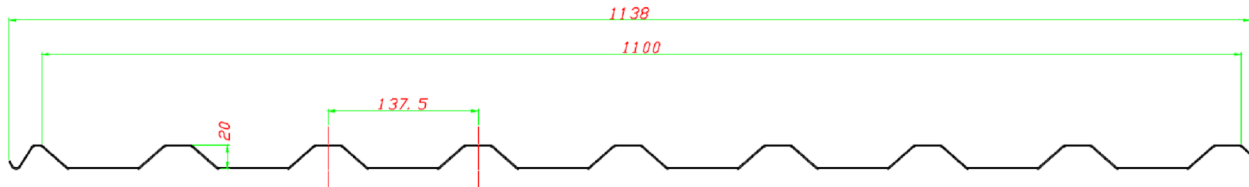
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.2	1.600	1.450	1.350	1.250	1.250	1.150	1.100	1.000

(\*) Ultimate load values (safety coefficient 1.5)

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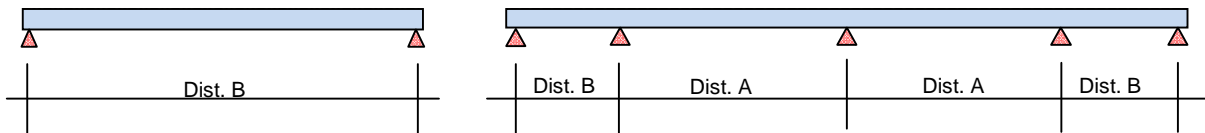
**ANNEX 47 È TRAPEZ 137.5/19.3 (Trapezprofile W-20/1100) (Ref. RV4)**
**Macrolux® Rooflite® TRAPEZ 137.5/19.3**

Sezione



✓ TRAPEZPROFIL W-20/1100

<b>CODE</b>	E3A3		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.33 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.138 mm	<b>Useable</b> 1.100 mm	
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	5.000 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x60mm with EPDM gasket (every 275 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 275 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

 ✓ **LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


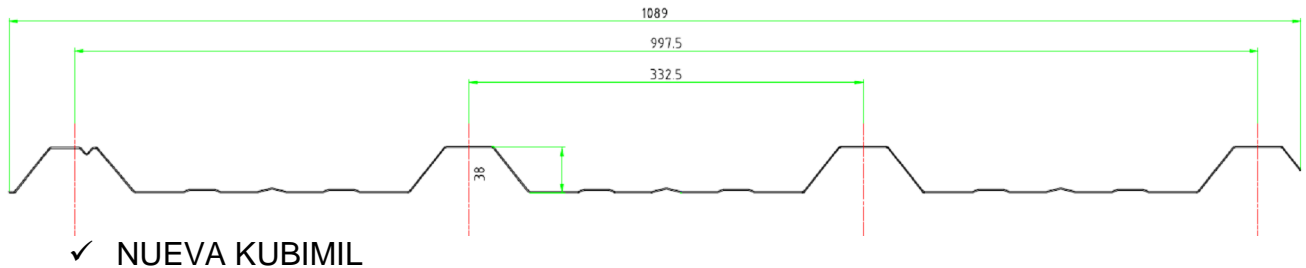
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.2	1.100	1.000	900	850	850	800	750	700

(\*) Ultimate load values (safety coefficient 1.5)

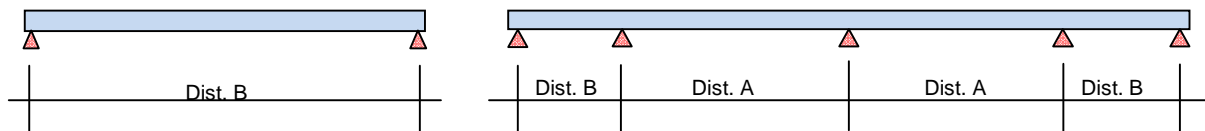
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**ANNEX 48 Ë TRAPEZ 333.5/38 (Teja Nueva Kubimil) (Ref. RN2)**
**Macrolux® Rooflite® TRAPEZ 333.5/38**

Sezione



<b>CODE</b>	E3B2		
<b>THICKNESSES</b>	1.0 mm		
<b>WEIGHT</b>	1.35 kg/m <sup>2</sup>		
<b>WIDTH</b>	<b>Nominal (Sheet max)</b> 1.089 mm		<b>Useable</b> 998 mm
<b>LENGTH</b>	6.000 mm		
<b>AVAILABLE COLOURS</b>	Clear Opal		
<b>THERMAL EXPANSION</b>	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)		
<b>MINIMUM RADIUS OF CURVATURE</b>	8.500 mm		
<b>MINIMUM SLOPE</b>	5%		
<b>RECOMMENDED FIXING</b>	Self-drilling 6.3x80mm with EPDM gasket (every 332 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 332 mm) Seaming plug (max every 300 mm)		
<b>SPACER MADE OF FOAMED PE</b>	Not available		

**✓ LOAD VALUES (\*) FOR EVENLY DISTRIBUTED LOAD**


Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
1.2	1.450	1.300	1.200	1.100	1.150	1.0500	950	900

(\*) Ultimate load values (safety coefficient 1.5)

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**ANNEX 49 È TRAPEZ 171.5/35 (IBR profile) (Ref. RO1)**

<b>Macrolux® Rooflite® TRAPEZ 171.5/35</b>								
Sezione								
✓ IBR PROFILE								
CODE	E3A7							
THICKNESSES	0.7 mm							
WEIGHT	1.05 kg/m <sup>2</sup>							
WIDTH	<b>Nominal (Sheet max) 740 mm</b>				<b>Useable 686 mm</b>			
LENGTH	6.000 mm							
AVAILABLE COLOURS	Clear Opal							
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 <sup>-5</sup> 1/°C)							
MINIMUM RADIUS OF CURVATURE	8.500 mm							
MINIMUM SLOPE	5%							
RECOMMENDED FIXING	Self-drilling 6.3x80mm with EPDM gasket (every 343 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 343 mm) Seaming plug (max every 300 mm)							
SPACER MADE OF FOAMED PE	Not available							
✓ <b>LOAD VALUES (*) FOR EVENLY DISTRIBUTED LOAD</b>								
Thickness mm	Distance A				Distance B			
	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>	600 N/m <sup>2</sup>	900 N/m <sup>2</sup>	1.200 N/m <sup>2</sup>	1.500 N/m <sup>2</sup>
0.7	1.350	1.250	1.150	1.100	1.100	1.000	900	850
(*) Ultimate load values (safety coefficient 1.5)								
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