



TECHNICAL MANUAL

POLITEC WT

VERSION 02
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Description

POLITEC WT[®] is a type of extruded sheet made of compact either waved or corrugated polycarbonate. The shape of the templates allows coupling with metal sections.

POLITEC WT[®] sheets guarantee high resistance against impact, they are extremely light and they have an ideal light transmission.

POLITEC WT[®] sheets are the ideal products for manufacturing industrial roofing, greenhouses, canopies, etc.

This manual outlines the main features and instructions for mounting POLITEC WT[®] polycarbonate sheets.

For further information or comments please write to:

POLITEC SA

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6855 STABIO (SWITZERLAND)

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WARNING: Purchase of POLITEC WT[®] 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 checks, with the aim of establishing suitability for the intended use. In case of doubt or difficulty, please seek POLITEC 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 polycarbonate 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.

✓ Polycarbonate technical data.

	Value	Unit	Standard
Mechanical properties			
Tensile/yield strength σ_y	>60	N/mm ²	DIN 53455
Tensile/breaking strength σ_r	>70	N/mm ²	DIN 53455
Yield strain ε_y	6	%	DIN 53455
Strain at break ε_r	>100	%	DIN 53455
Tensile elastic modulus E	2300	N/mm ²	DIN 53457
Resistance to impact a_n	+23°C	65	kJ/m ²
	-40°C	65	kJ/m ²
Impact strength a_k a +23°C	35	kJ/m ²	DIN 53453
Resistance Izod with indent	>700	J/m	ASTM 256-56
Brinell hardness H ₃₀	110	N/mm ²	DIN 53456
Physical properties			
Specific weight	1.2	g/cm ³	DIN 53479
Refractive index n _D	1.58	n ^o	DIN 53491
Water absorption by immersion	0.36	%	DIN 53495
Permeability to water vapour (0.1mm)	15	g/m ² d	DIN 53122
Thermal properties			
Linear thermal expansion α	0.065	mm/m°C	DIN 53752
Thermal conductivity λ	0.20	W/m K	DIN 52612
VICAT softening temperature	145-150	°C	DIN 53460
Typical values of polycarbonate material			

✓ 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	Vetro
Density	g/cm ³	1.20	1.19	1.38	1.33	1.42	2.50
Impact strength	KJ/m ²	70	2	4	3	1.2	-
Elastic modulus	N/mm ²	2200	3100	3200	2450	6000	70000
Linear thermal expansion	1/°C	6.5 x 10 ⁻⁵	7.0 x 10 ⁻⁵	6.7 x 10 ⁻⁵	5.0 x 10 ⁻⁵	3.2 x 10 ⁻⁵	0.9 x 10 ⁻⁵
Thermal conductivity	W/m K	0.20	0.18	0.13	0.24	0.15	1.3
Maximum temperature of use	°C	120°	90°	60°	80°	140°	240°
Transparency to UV rays	%	4	40	na	na	19	80%
Fire behaviour	-	optimal	inflammable	inflammable	inflammable	inflammable	fireproof
Resistance to ageing	-	good	optimal	poor	poor	good	excellent
Compatibility with chemical agents	-	good	good	poor	good	good	optimal

2. Sections

POLITEC WT[®] sheets come in various pieces, thicknesses and colours. Sections and their characteristics are described in detail in the annexes.

3. UV protection

POLITEC WT[®] 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. POLITEC WT[®] protection on both sides

POLITEC WT[®] 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. POLITEC WT[®] DEW STOP

POLITEC WT[®] sheets can be supplied, upon request, with an anti-condensation treatment performed on the inner surface. Application of the DEW STOP 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

POLITEC WT[®] 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

POLITEC WT[®] sheets offer maximum light transmission allowing to exploit the light point to the maximum. POLITEC WT[®] 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 “POLITEC WT ATHERMIC” sheets.

Colour	Light transmission			
	0.8 mm	1.0 mm	1.1 mm	1.2 mm
Crystal (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

POLITEC WT 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
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10. Thermal expansion

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

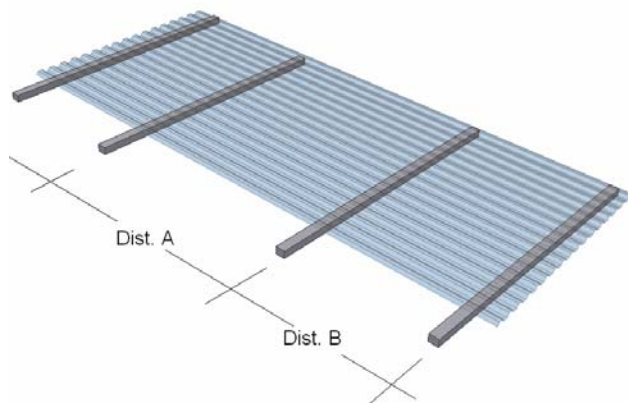
Thermal expansion	0.065 mm/m °C (6.5×10^{-5} 1/ K)
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Such value shall be deemed as an important parameter when selecting the suitable type of fixing.

11. Resistance to hail

POLITEC WT[®] sheets obtained optimal hail resistance performances. Impact tests were performed at Institute 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).

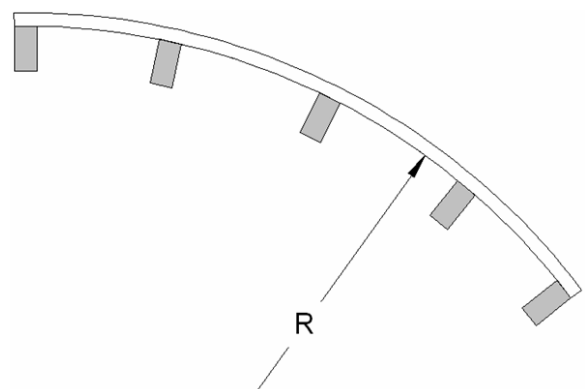
12. Sloped solution – (minimum slope)



In order to facilitate the flow of rain water we recommend laying the POLITEC WT[®] sheets with a minimum slope of 5%.

13. Curved solution

POLITEC WT[®] 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

POLITEC WT[®] 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

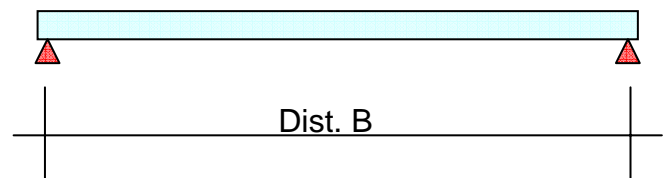
Alongside the high thermal expansion typical of polycarbonate and depending on the fixing system (screw crossing the POLITEC WT), we recommend using sheets with a maximum length of 4000 mm.

In case of extremely long slopes, we recommend overlapping several sheets length-wise; however, in the event of ovalised hole protected by mean of washer and EPDM gasket it is possible to use sheets even longer than 4 m.

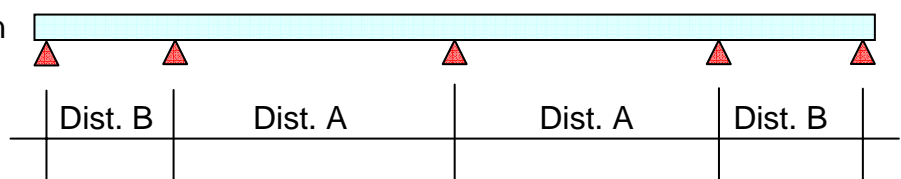
16. Allowable loads

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



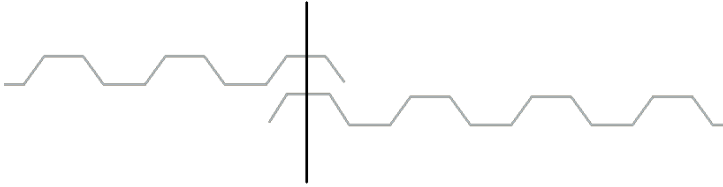
Fixing must be performed on all purlings according to the methods and indications provided for in this document. The values indicated in the tables are

- ✓ Ultimate strength safety coefficient equivalent to 1.5

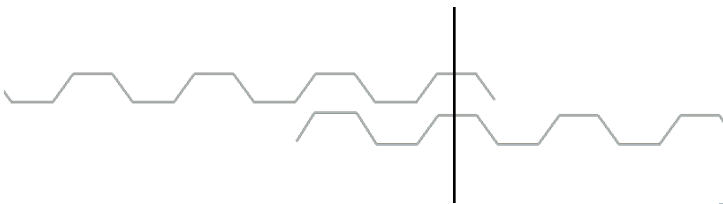
In such case the deformation under load must be verified during the design.

17. Overlaps

Simple side overlap



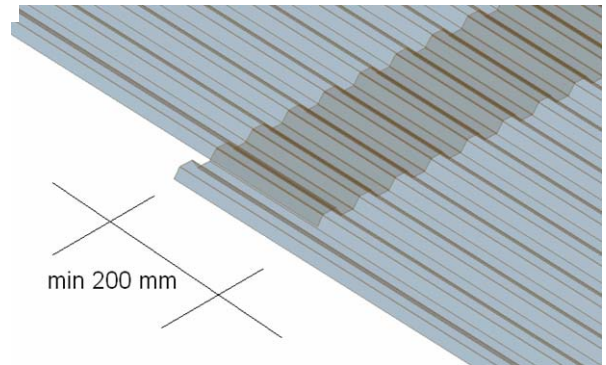
Double-pitch side overlap



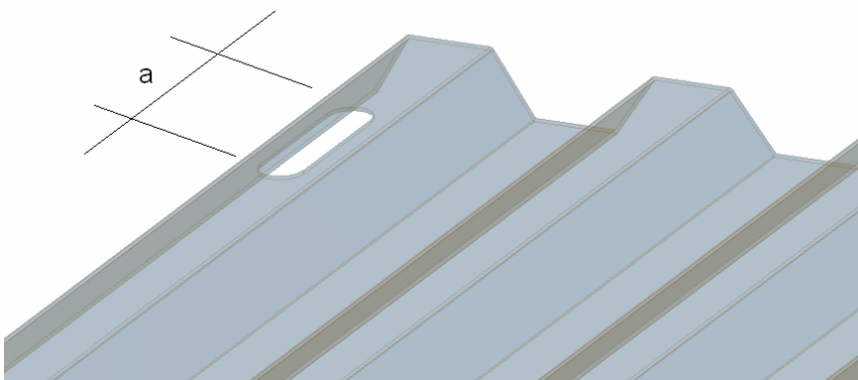
Overlapping POLITEC WT[®] sheets require the following simple rules. For side overlapping, at least one complete pitch is recommended, but in the case of low slopes (5% to 10%) or in cases where the flap is considerably long (longer than 4 metres) at least a double pitch overlap is recommended.

Overlapping on the length

In case of overlapping several sheets lengthwise, it is compulsory 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 suitable washer with EPDM gasket to guarantee watertight sealing bearing in mind that the hole must be suitably ovalised to guarantee the thermal expansion of the polycarbonate sheet.

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

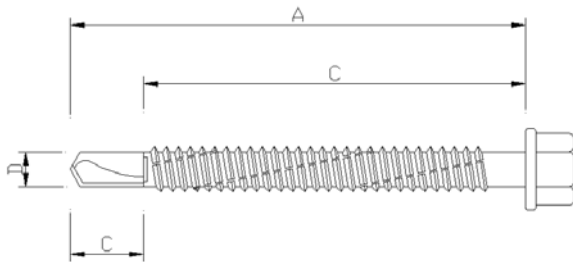
Screw diameter 6 mm	
Sheet length (mm)	Slotting (mm)
Up to 2.000 mm	10 mm
Up to 4.000 mm	12 mm
Up to 6.000 mm	15 mm
Up to 8.000 mm	20 mm
Up to 10.000 mm	25 mm

19. Fixing at the purling

POLITEC WT[®] sheets must be anchored in an integral manner with respect to the support structure through an adequate number of fixings and suitable for the support (wood, metal purling, etc.).

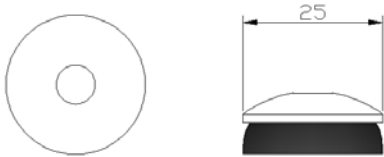
The distance required for proper fixing depends on the pitch and shape of the fret.

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



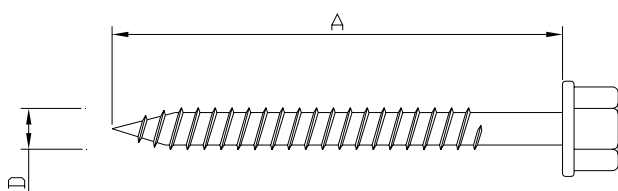
- ✓ Self-drilling fixings on a metal structure with gasket and metal washer

Self drilling screw



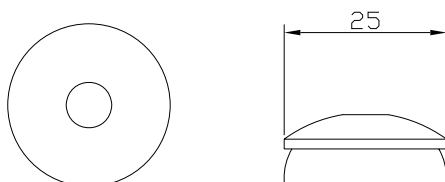
EPDM sealing washer with aluminium metal washer Φ 25 mm.

Size	Spanner (mm)	Diameter D (mm)	Total length A (mm)	Useable length B (mm)	Drilling capacity 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



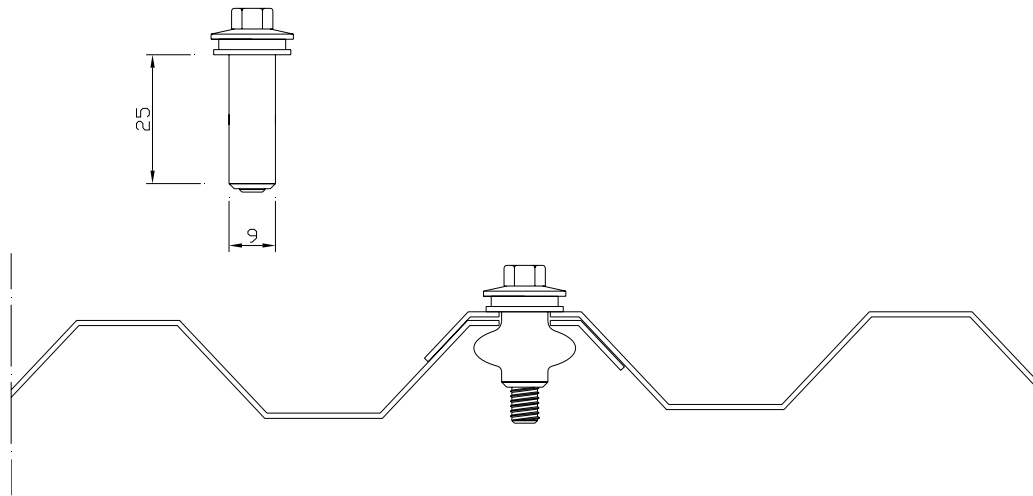
EPDM sealing washer with aluminium metal washer Φ 25 mm.

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

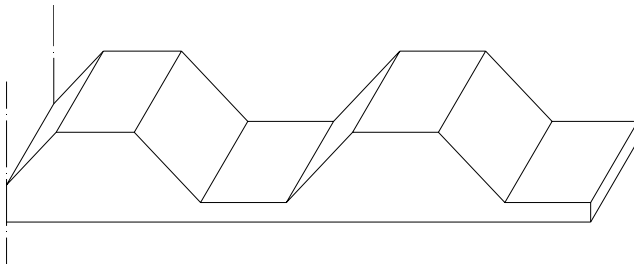
For supports made of wood consider screwing at least 30 mm deep.

20. Side overlap seam

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



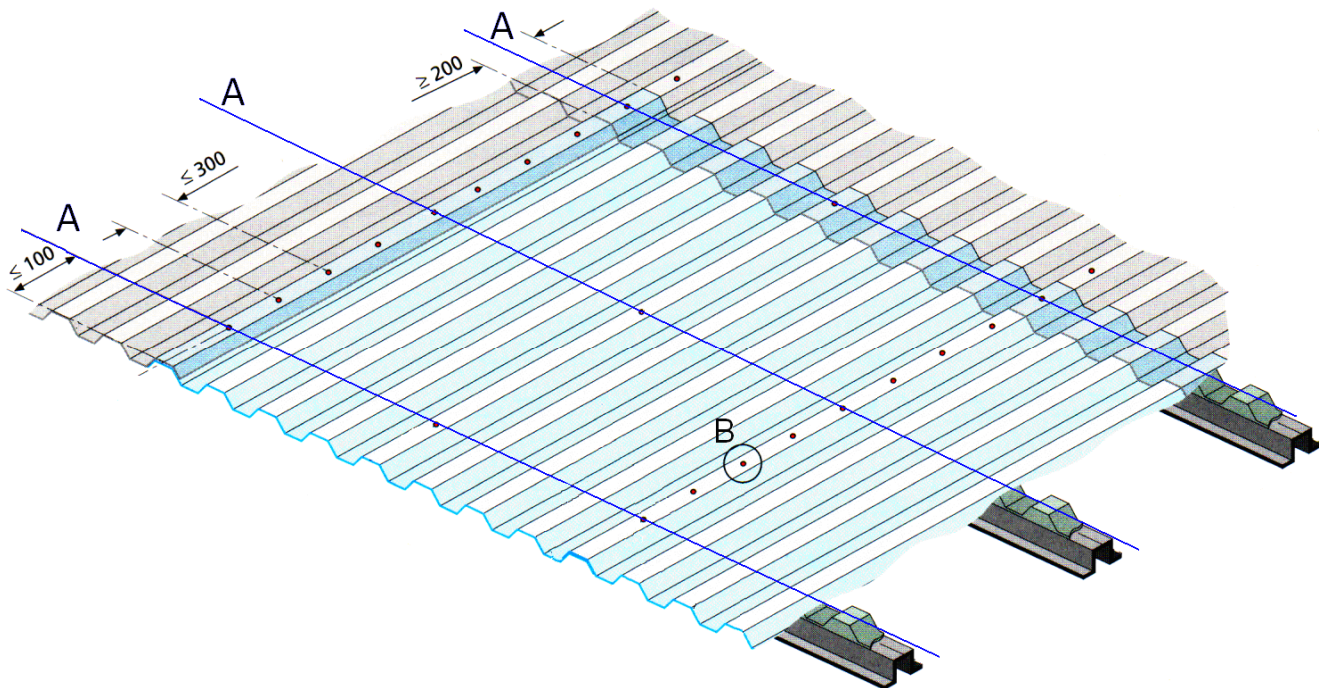
21. Spacer



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 purling and the fret is recommended.

22. Arrangement of the accessories

For proper laying of the POLITEC WT® 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 purling shall be assessed depending on the expected load; the thickness and type of template (check the suitable sheet tables). Fixings passing through the purling (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 purling (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 purling, of the polycarbonate sheet shall not exceed 100 mm.

23. Packaging and forwarding

In standard packaging, POLITEC WT[®] sheets are supplied on wooded pallets, protected by a thermo welded and fastened heavy polyethylene film.

Customised sheets shall be packaged according to the discretion of POLITEC 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

POLITEC WT[®] 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 receipt 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 POLITEC WT[®] 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 the 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 a sheltered place or in a place where they can be covered with canvas to protect the packages against harsh conditions and ensure proper aeration.
- Packages whose packagings have been already opened must be stored indoors.
- If performed by hand, transfer of single sheets shall occur with the sheet on its side.

26. Cleaning

When cleaning POLITEC WT[®] sheets, strictly use only products certified for cleaning polycarbonates (see the manufacturer specifications sheet).

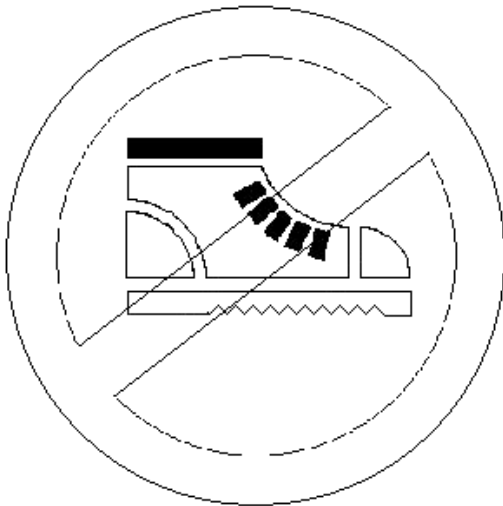
In order to maintain the light passages, the latter must be cleaned periodically with water and non-alkaline soap or with suitable detergents, subsequently thoroughly rinsing with water.

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 – Access to roofing



During both laying and maintenance operations do not walk directly on the POLITEC WT[®] 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 roof, use the suitable gangways which guarantee safety for all the operators.

Protect the sheets against possible scratches with suitable covers.

WARNING:

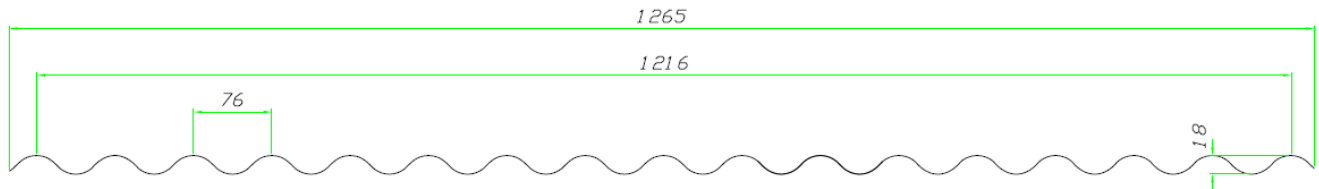
In case of access to the roof, should there be risks of falling or breaking, assemble all the required elements in compliance with all the work safety regulations in force in the country in question.

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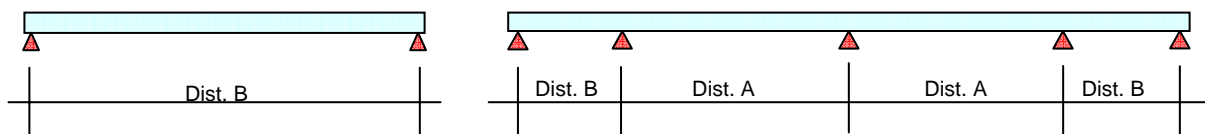
POLITEC WT WAVE 76/18

Section



THICKNESSES	0.8 mm	1.0 mm	1.1 mm
WEIGHT	1.10 kg/m²	1.35 kg/m²	1.50 kg/m²
WIDTH	Nominal (Sheet max)		Useable
	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
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	4.000 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x60 mm with EPDM gasket (max every 300 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 300 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	Available in 988 mm bars		

✓ BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS



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

(*) Breaking strength values (safety coefficient 1.5)

Standard production

Non-standard production

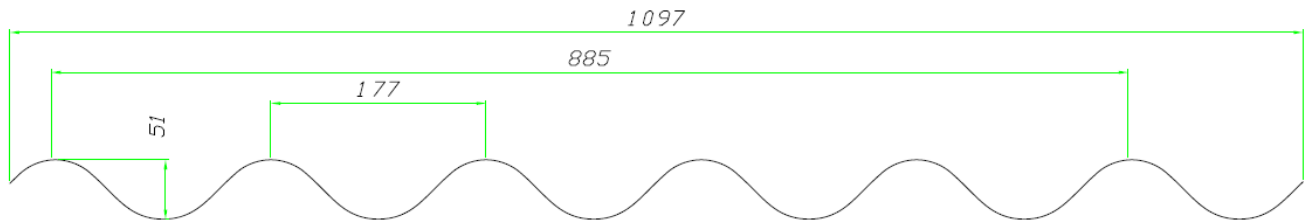
Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices.

For further laying conditions see the POLITEC WT® TECHNICAL manual

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

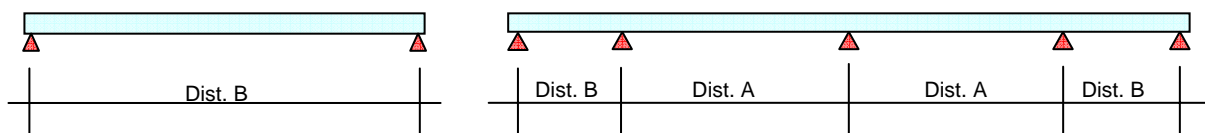
ANNEX 2 – WAVE 177/51 (Eternit)

POLITEC WT WAVE 177/51

Section


✓ ETERNIT

THICKNESSES	1.0 mm	1.2 mm	1.4 mm
WEIGHT	1.45 kg/m²	1.70 kg/m²	2.00 kg/m²
WIDTH	Nominal (Sheet max) 920 mm 1.097 mm		Useable 708 mm 885 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	11.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x100mm with EPDM gasket (max every 350 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 350 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	available in 2000 mm bars		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.650	1.500	1.400	1.350	1.350	1.200	1.100	1.050
1.2	1.750	1.600	1.450	1.400	1.400	1.250	1.150	1.100
1.4	1.800	1.650	1.500	1.450	1.450	1.300	1.200	1.150

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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.

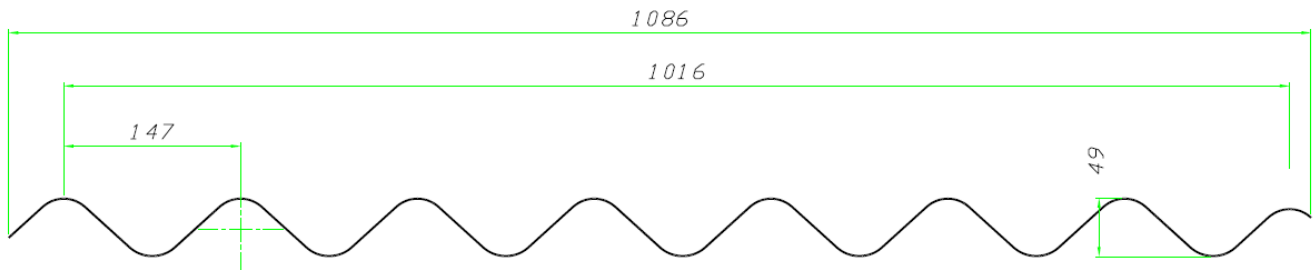
For further laying conditions see the POLITEC WT® TECHNICAL manual

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

ANNEX 3 – WAVE 147/49 (Eternit)

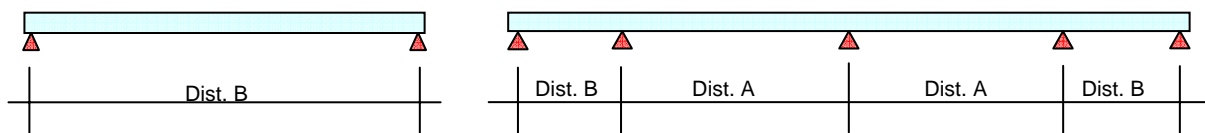
POLITEC WT WAVE 147/49

Section



✓ ETERNIT B6

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.45 kg/m²	1.75 kg/m²	
WIDTH	Nominal (Sheet max) 1.050 mm 1.086 mm		Useable 879 mm 1.016 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	11.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x80 mm with EPDM gasket (max every 300 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 300 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
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	1.350	1.350	1.200	1.100	1.050

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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.

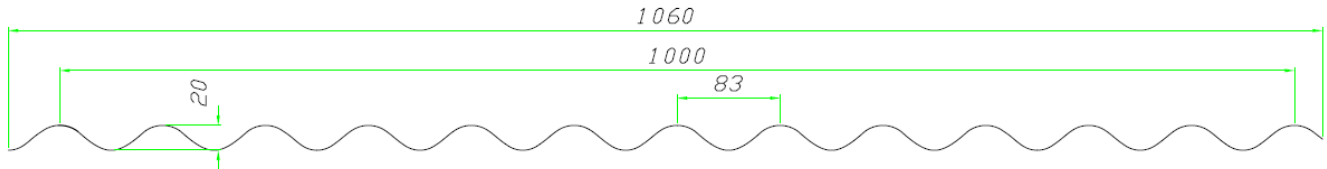
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 4 – WAVE 83/20 (Iscom)

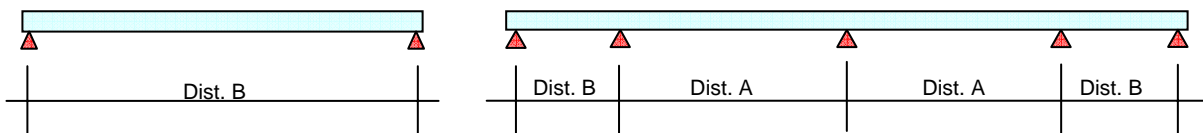
POLITEC WT WAVE 83/20

Section



✓ ISCOM – Sinus 20-83

THICKNESSES	1.2 mm		
WEIGHT	1.65 kg/m²		
WIDTH	Nominal (Sheet max) 1.060 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/^\circ\text{C}$)		
MINIMUM RADIUS OF CURVATURE	4.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x60mm with EPDM gasket (max every 250 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 250 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.2	1.100	1.000	950	900	900	800	750	700

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

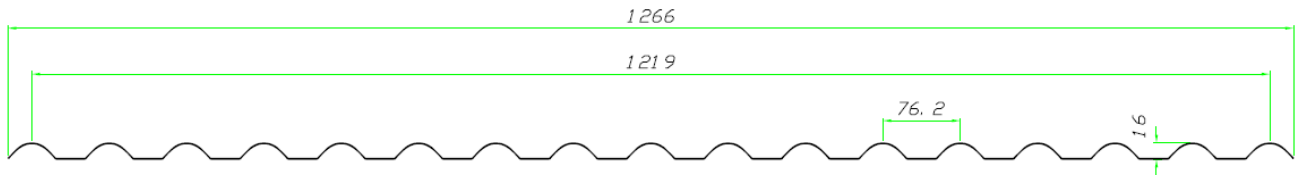
Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices.

For further laying conditions see the POLITEC WT® TECHNICAL manual

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

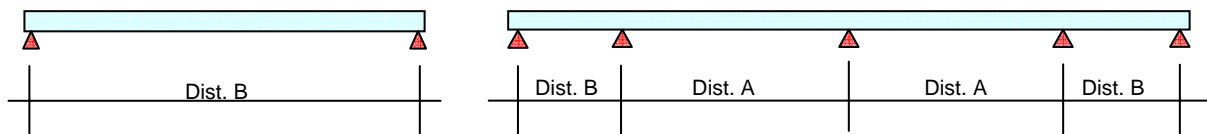
POLITEC WT OMEGA 76.2/16

Section



THICKNESSES	0.8 mm	1.0 mm	
WEIGHT	1.10 kg/m²	1.40 kg/m²	
WIDTH	Nominal (Sheet max) 1.190 mm 1.266 mm		Useable 1.143 mm 1.219 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	4.000 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x60mm with EPDM gasket (max every 300 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 300 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	Not available		

✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**



Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
0.8	950	850	800	750	750	700	650	600
1.0	1.000	900	850	800	000	750	700	650

(*) Breaking strength values (safety coefficient 1.5)

Standard production

Non-standard production

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.

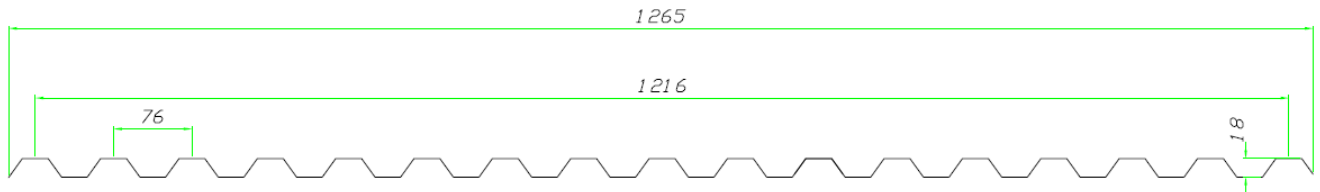
For further laying conditions see the POLITEC WT@ TECHNICAL manual

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

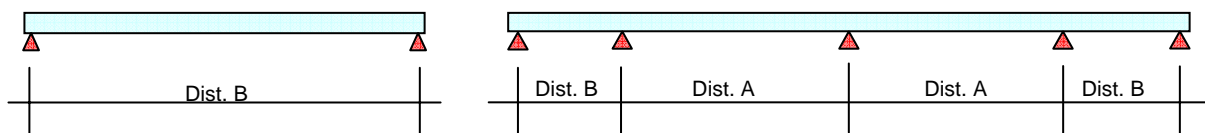
ANNEX 6 – TRAPEZ 76/18

POLITEC WT TRAPEZ 76/18

Section



THICKNESSES	0.8 mm	1.0 mm	1.1 mm
WEIGHT	1.20 kg/m²	1.45 kg/m²	1.60 kg/m²
WIDTH	Nominal (Sheet max)		Useable
	660 mm		608 mm
	807 mm		760 mm
	1.040 mm		988 mm
	1.116 mm		1.064 mm
	1.265 mm		1.216 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal, bronze, athermic</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	4.000 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x60mm with EPDM gasket (max every 300 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 300 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	available in 1000 mm bars		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
0.8	1.100	1.000	900	850	850	800	750	700
1.0	1.150	1.050	950	900	900	850	800	750
1.1	1.250	1.050	1.000	950	950	850	800	750

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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.

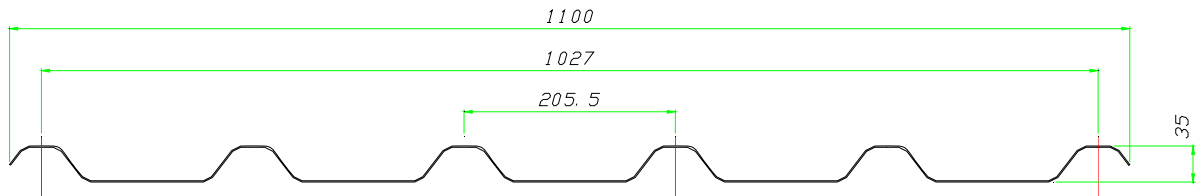
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

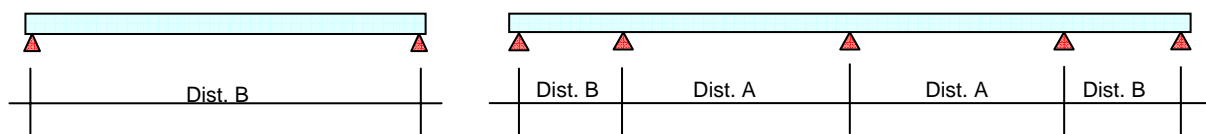
ANNEX 7 – TRAPEZ 205,4/35,4

POLITEC WT TRAPEZ 205,4/35,4

Section



THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.45 kg/m²	1.70 kg/m²	
WIDTH	Nominal (Sheet max) 1.100 mm		Useable 1.027 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	8.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

✓ BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.450	1.350	1.250	1.150	1.150	1.050	1.000	950
1.2	1.550	1.400	1.300	1.250	1.250	1.100	1.050	1.000

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders.

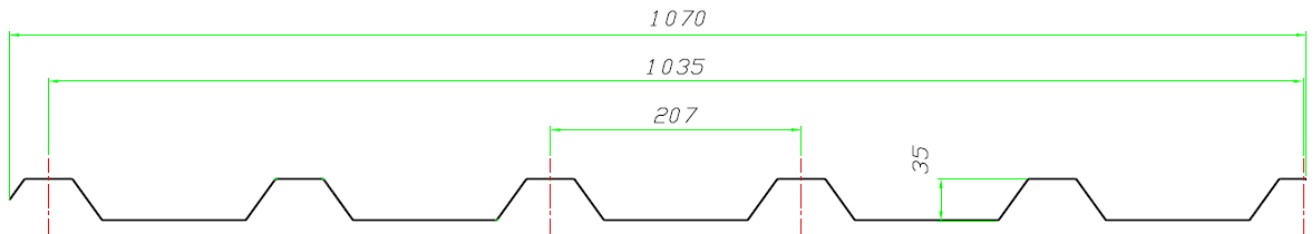
Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices

For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

POLITEC WT TRAPEZ 207/35

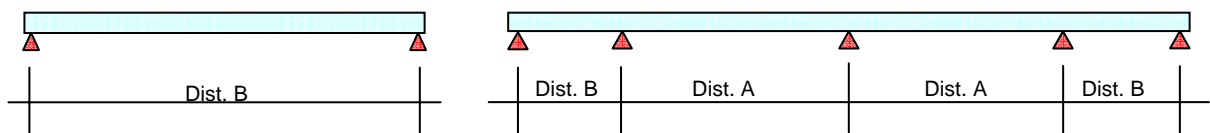
Section



✓ KLOCKNER 35/207

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.45 kg/m²	1.70 kg/m²	
WIDTH	Nominal (Sheet max) 1.070 mm 1.100 mm		Useable 1.035 mm 1.035 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	8.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**



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

(*) Breaking strength values (safety coefficient 1.5)

Standard production

Non-standard production

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

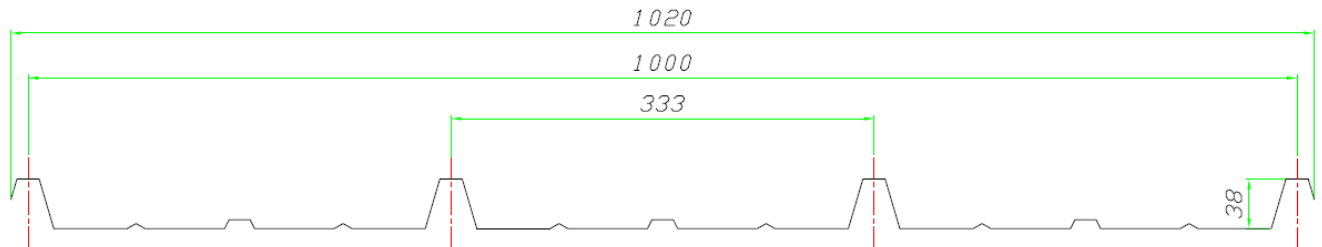
For further laying conditions see the POLITEC WT@ TECHNICAL manual.

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

ANNEX 9 – TRAPEZ 333/38 (Metecno)

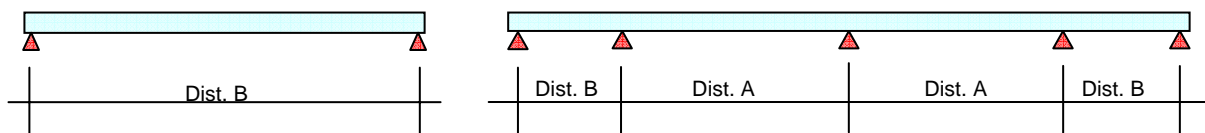
POLITEC WT TRAPEZ 333/38

Section



✓ METECNO A38

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.50 kg/m²	1.80 kg/m²	
WIDTH	Nominal (Sheet max) 1.020 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	8.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Available in 1000 mm bars		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.400	1.250	1.150	1.000	1.100	1.000	950	900
1.2	1.450	1.350	1.250	1.100	1.150	1.050	1.000	950

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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

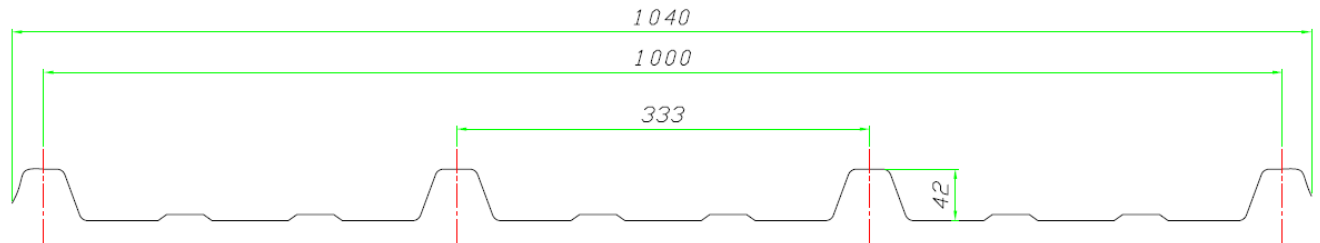
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 10 – TRAPEZ 333/42 (Remco)

POLITEC WT TRAPEZ 333/42

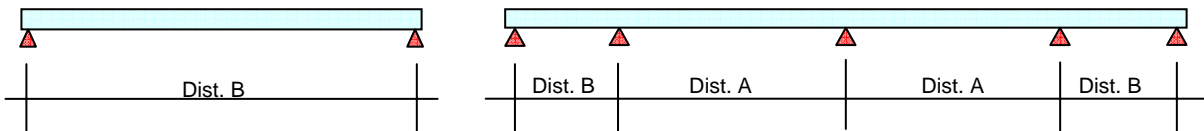
Section



✓ REMCO

THICKNESSES	1.0 mm		
WEIGHT	1.50 kg/m²		
WIDTH	Nominal (Sheet max) 1.040 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/°C$)		
MINIMUM RADIUS OF CURVATURE	9.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**



Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.500	1.400	1.300	1.200	1.200	1.100	1.050	950

(*) Breaking strength values (safety coefficient 1.5)

Standard production

Non-standard production

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

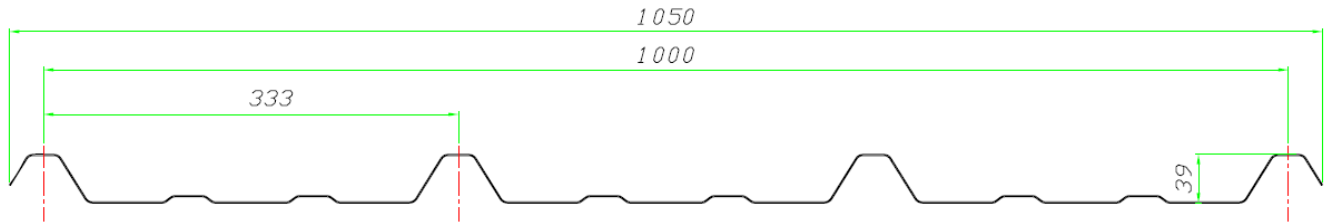
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 11 – TRAPEZ 333/39 (Haironville)

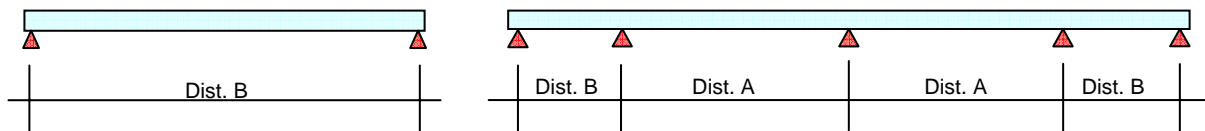
POLITEC WT TRAPEZ 333/39

Section



✓ HAIRONVILLE 39/333

THICKNESSES	1.0 mm	1.2 mm	1.4 mm
WEIGHT	1.40 kg/m²	1.70 kg/m²	1.95 kg/m²
WIDTH	Nominal (Sheet max) 1.050 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	8.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


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

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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

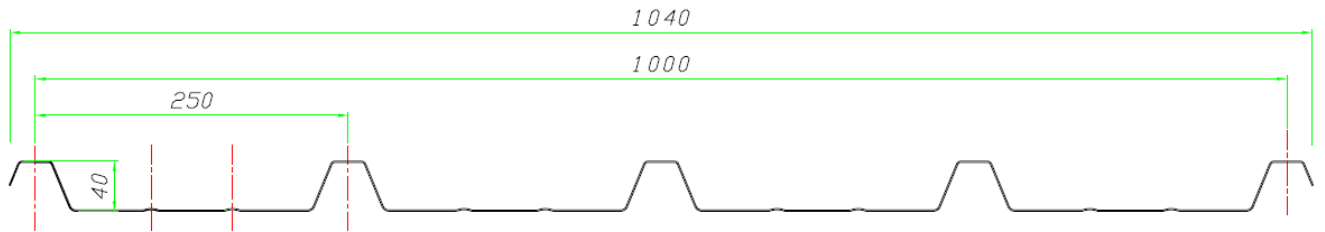
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 12 – TRAPEZ 250/40 (5greche)

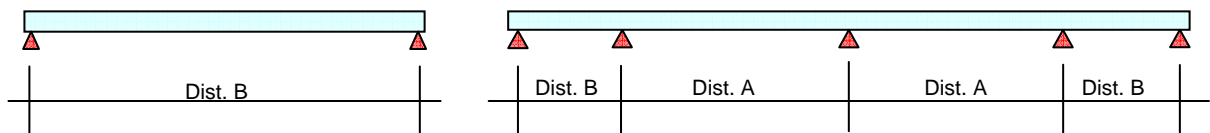
POLITEC WT TRAPEZ 250/40

Section



✓ 5 frets

THICKNESSES	1.0 mm		
WEIGHT	1.50 kg/m²		
WIDTH	Nominal (Sheet max) 1.040 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	9.000 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.500	1.350	1.300	1.200	1.200	1.100	1.000	950

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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

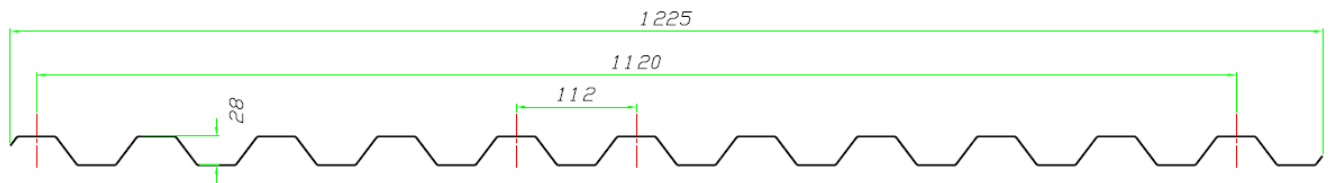
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 13 – TRAPEZ 112/28 (LG 28)

POLITEC WT TRAPEZ 112/28

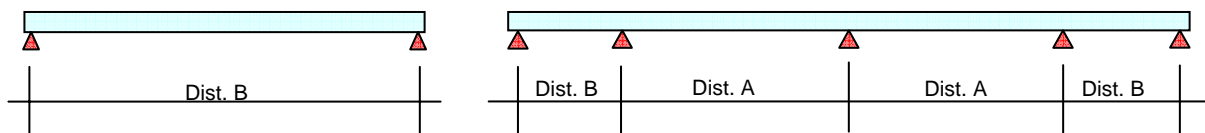
Section



- ✓ PROFILIA LG 28
- ✓ ALUBEL 28

THICKNESSES	1.0 mm	1.2 mm	1.4 mm
WEIGHT	1.50 kg/m²	1.80 kg/m²	2.10 kg/m²
WIDTH	Nominal (Sheet max) 1.016 mm 1.225 mm		Useable 896 mm 1.120 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	6.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**



Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.400	1.250	1.150	1.100	1.100	1.000	950	900
1.2	1.450	1.300	1.200	1.150	1.150	1.050	1.000	900
1.4	1.500	1.350	1.250	1.200	1.200	1.100	1.000	950

(*) Breaking strength values (safety coefficient 1.5)

Standard production

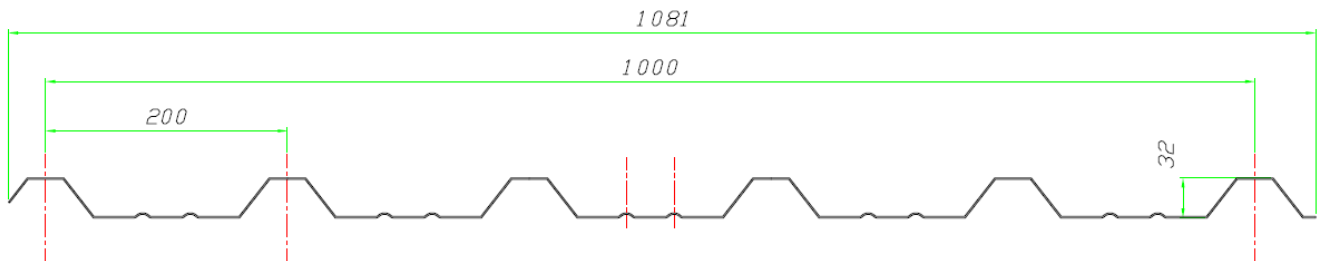
Non-standard production

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 POLITEC WT® TECHNICAL manual. All other company or product names, herein mentioned are registered trademarks belonging to the owners in question.

ANNEX 14 – TRAPEZ 200/32 (Hiansa)

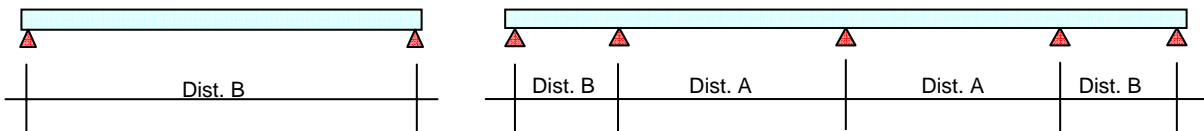
POLITEC WT TRAPEZ 200/32

Section



✓ HIANSA MT-32

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.40 kg/m²	1.65 kg/m²	
WIDTH	Nominal (Sheet max) 1.081 mm 1.100 mm		Useable 1.000 mm 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	7.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


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

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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.

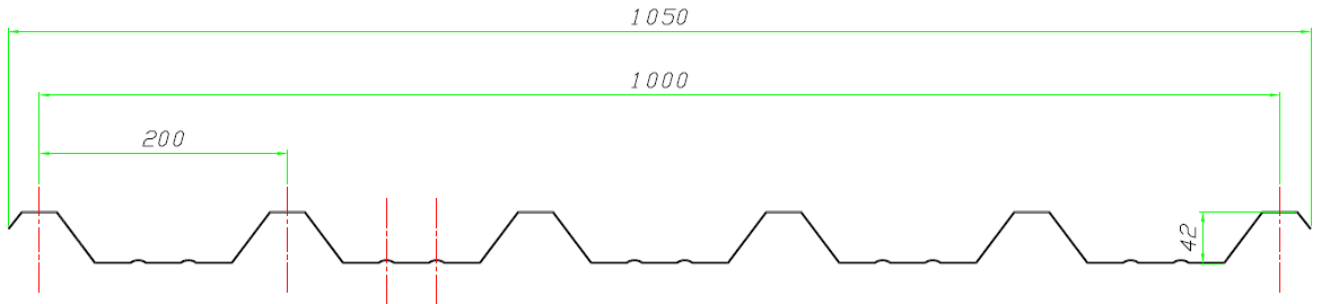
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 15 – TRAPEZ 200/42 (Hiansa)

POLITEC WT TRAPEZ 200/42

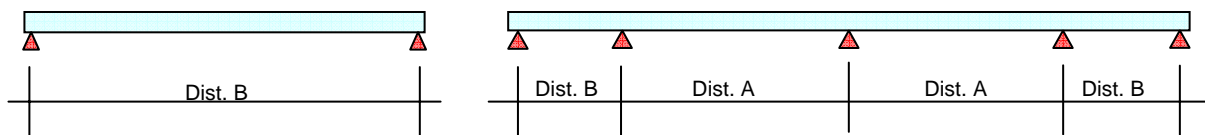
Section



✓ HIANSA MT-42

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.45 kg/m²	1.75 kg/m²	
WIDTH	Nominal (Sheet max) 1.050 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/^\circ\text{C}$)		
MINIMUM RADIUS OF CURVATURE	9.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**



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

(*) Breaking strength values (safety coefficient 1.5)

Standard production

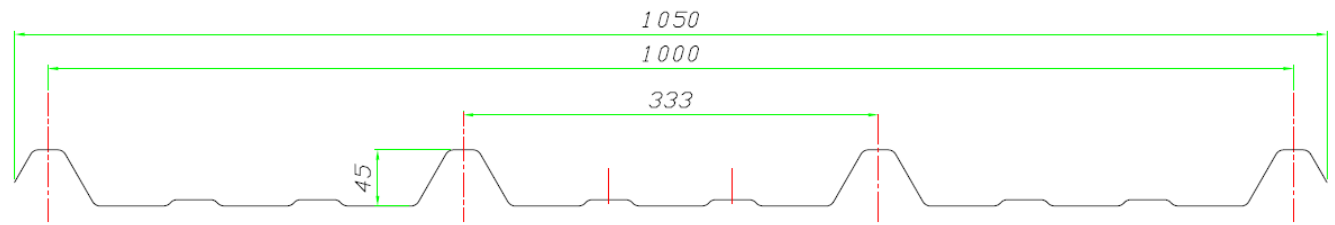
Non-standard production

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 POLITEC WT® TECHNICAL manual. All other company or product names, herein mentioned are registered trademarks belonging to the owners in question.

ANNEX 16 – TRAPEZ 333/45 (Nervesco)

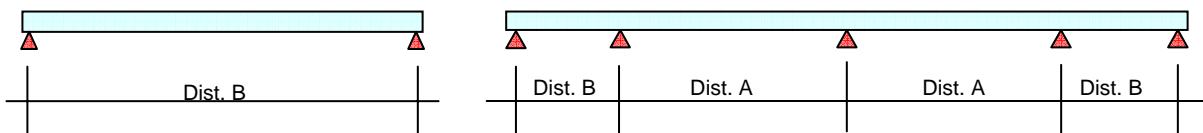
POLITEC WT TRAPEZ 333/45

Section



✓ NERVESCO 3.45.1000 TS

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.45 kg/m²	1.70 kg/m²	
WIDTH	Nominal (Sheet max) 1.050 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	9.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.550	1.400	1.300	1.200	1.250	1.150	1.050	1.000
1.2	1.650	1.450	1.350	1.300	1.300	1.200	1.100	1.050

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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

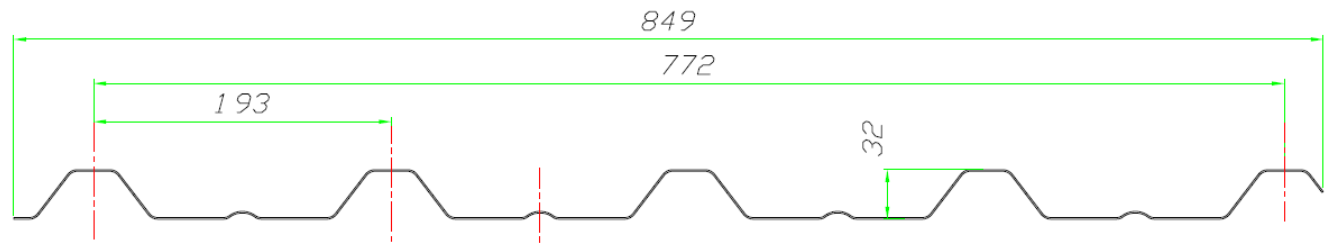
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 17 – TRAPEZ 193/32 (Ondulit)

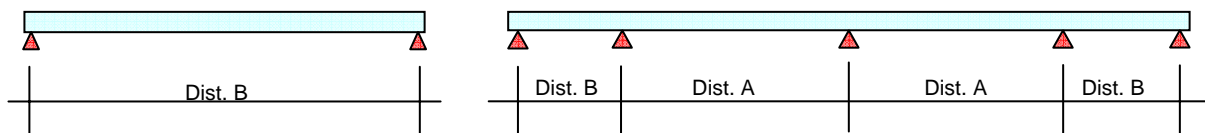
POLITEC WT TRAPEZ 193/32

Section



✓ ONDULIT COVERIB 850

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.45 kg/m²	1.70 kg/m²	
WIDTH	Nominal (Sheet max) 849 mm		Useable 772 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/°C$)		
MINIMUM RADIUS OF CURVATURE	7.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x60mm with EPDM gasket (every 193 mm) Self-tapping for wood 6.5x60mm with EPDM gasket (max every 193 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.300	1.200	1.100	1.050	1.050	950	900	850
1.2	1.350	1.250	1.150	1.100	1.100	1.000	900	850

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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.

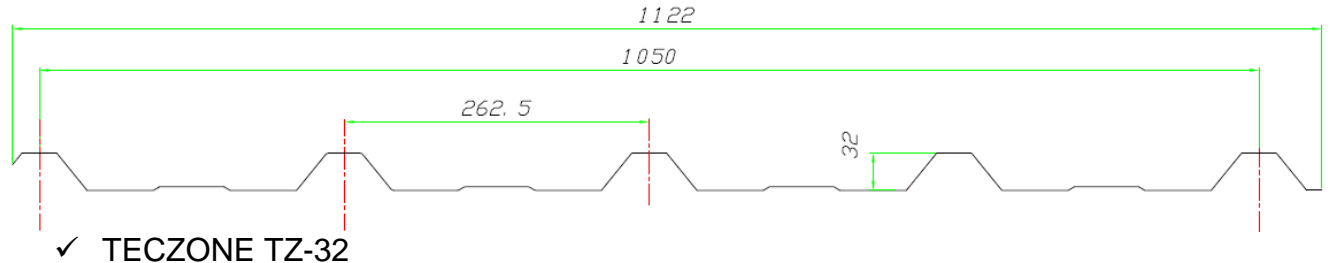
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

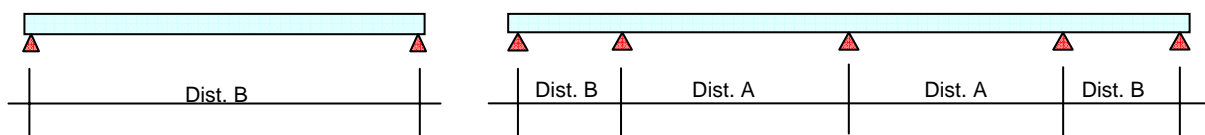
ANNEX 18 – TRAPEZ 262,5/32 (Teczone)

POLITEC WT TRAPEZ 262,5/32

Section



THICKNESSES	0.8 mm	1.0 mm	
WEIGHT	1.10 kg/m²	1.35 kg/m²	
WIDTH	Nominal (Sheet max) 1.122 mm		Useable 1.050 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/°C$)		
MINIMUM RADIUS OF CURVATURE	7.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
0.8	1.300	1.200	1.100	1.050	1.050	950	900	850
1.0	1.400	1.250	1.150	1.100	1.100	1.000	950	900

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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

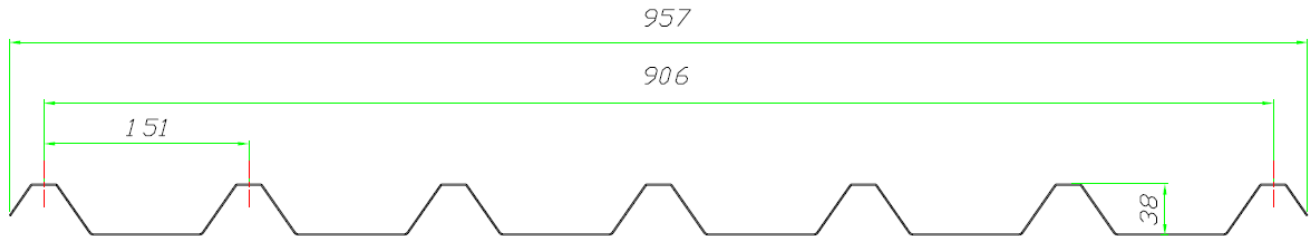
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 19 – TRAPEZ 151/38 (Assanpanel)

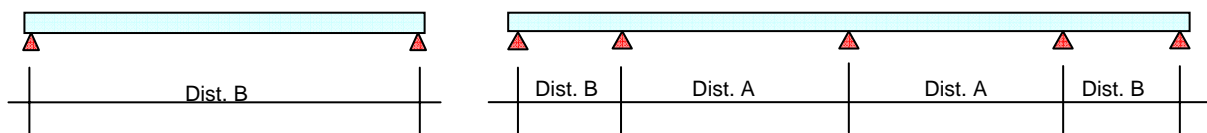
POLITEC WT TRAPEZ 151/38

Section



✓ ASSANPANEL 38/151

THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.55 kg/m²	1.85 kg/m²	
WIDTH	Nominal (Sheet max) 957 mm		Useable 906 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/^\circ\text{C}$)		
MINIMUM RADIUS OF CURVATURE	8.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x80mm with EPDM gasket (every 300 mm) Self-tapping for wood 6.5x100mm with EPDM gasket (max every 300 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


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

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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

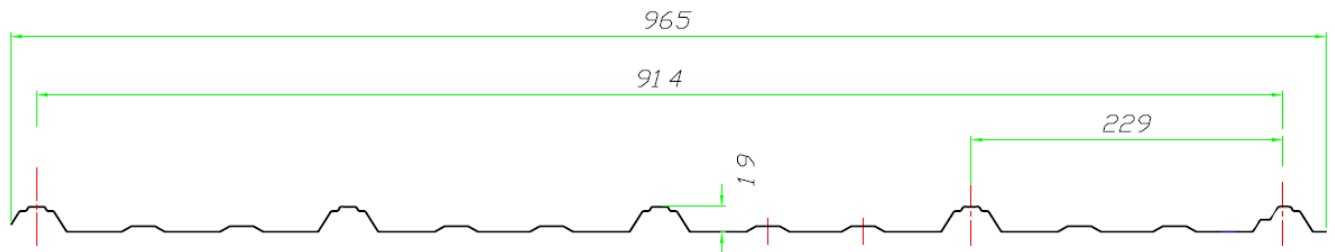
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 20 – TRAPEZ 228,6/19,05 (9" x 3/4") (MB9)

POLITEC WT TRAPEZ 228,6/19,05

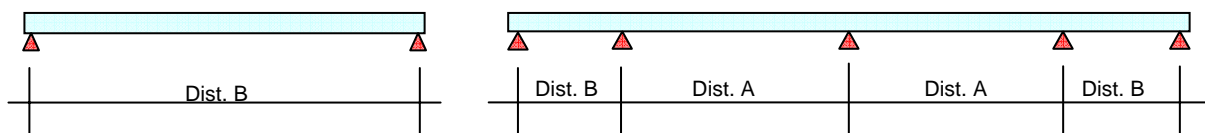
Section



✓ MB9

THICKNESSES	0.8 mm		
WEIGHT	1.10 kg/m²		
WIDTH	Nominal (Sheet max) 965 mm		Useable 914 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/°C$)		
MINIMUM RADIUS OF CURVATURE	4.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	Self-drilling 6.3x60mm with EPDM gasket (every 230 mm) Self-tapping for wood 6.5x75mm with EPDM gasket (max every 300 mm) Seaming plug (max every 300 mm)		
SPACER MADE OF FOAMED PE	Not available		

✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**



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

(*) Breaking strength values (safety coefficient 1.5)

Standard production

Non-standard production

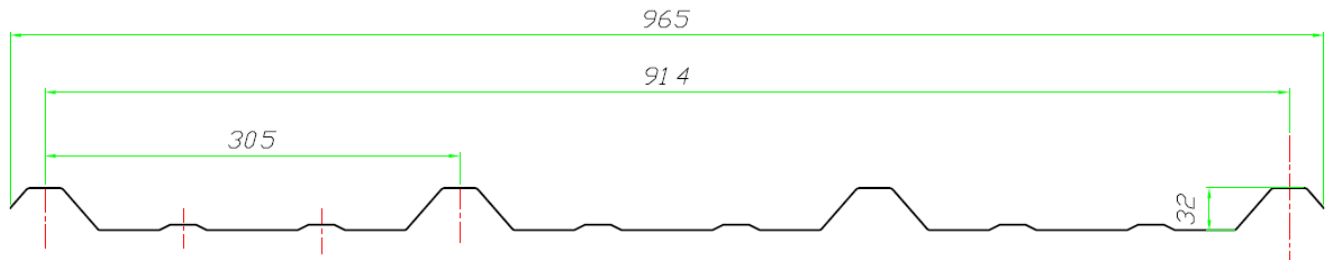
Customised lengths manufactured upon minimum amounts of order. Colours provided per request upon minimum amounts of orders. Illustrative drawings, check tolerance (weight, dimensions, width, pitch) from our offices.

For further laying conditions see the POLITEC WT® TECHNICAL manual

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

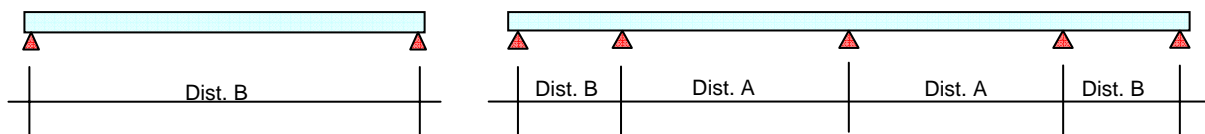
POLITEC WT TRAPEZ 304,8/31,8

Section



✓ MB12

THICKNESSES	0.8 mm	1.0 mm	
WEIGHT	1.10 kg/m²	1.40 kg/m²	
WIDTH	Nominal (Sheet max) 965 mm		Useable 914 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	7.500 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
0.8	1.200	1.100	950	850	905	850	800	750
1.0	1.250	1.150	1.050	950	1.000	900	850	800

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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.

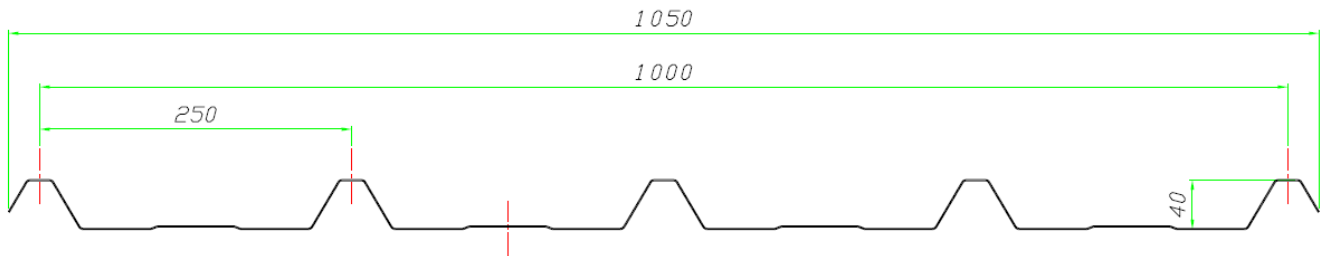
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 22 – TRAPEZ 250/40 (Cobacier)

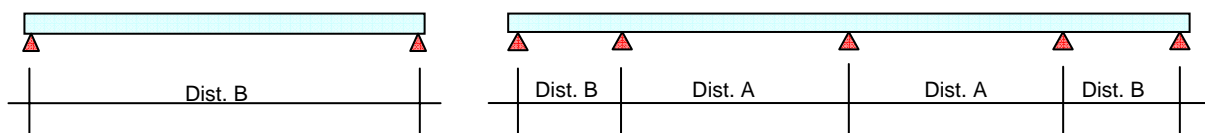
POLITEC WT TRAPEZ 250/40

Section



✓ COBACIER 1004

THICKNESSES	1.0 mm	1.3 mm	
WEIGHT	1.45 kg/m²	1.90 kg/m²	
WIDTH	Nominal (Sheet max) 1.050 mm		Useable 1.000 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal <i>Opal</i>		
THERMAL EXPANSION	0.065 mm/m °C (6.5 x 10 ⁻⁵ 1/°C)		
MINIMUM RADIUS OF CURVATURE	9.000 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

 ✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**


Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
0.8	1.500	1.350	1.250	1.150	1.200	1.050	1.000	950
1.3	1.550	1.400	1.350	1.250	1.250	1.150	1.050	1.000

(*) Breaking strength values (safety coefficient 1.5)

Standard production
Non-standard production

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.

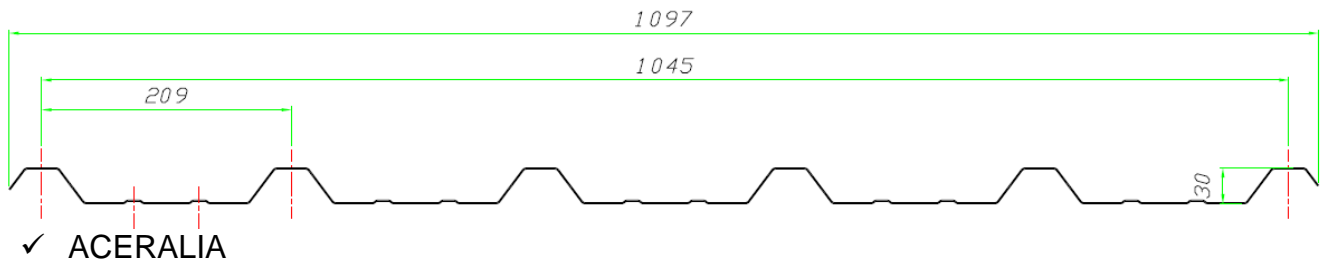
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 23 - TRAPEZ 209/30 (Aceralia)

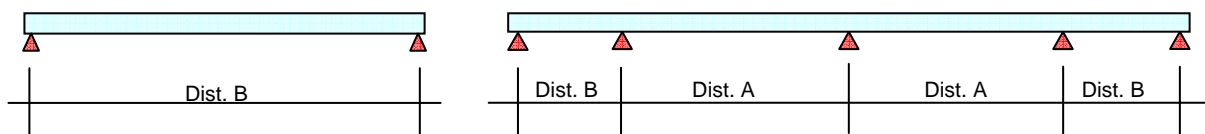
POLITEC WT TRAPEZ 209/30

Section



THICKNESSES	1.0 mm	1.2 mm	
WEIGHT	1.40 kg/m²	1.70 kg/m²	
WIDTH	Nominal (Sheet max) 1.097 mm		Useable 1.045 mm
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/°C$)		
MINIMUM RADIUS OF CURVATURE	7.000 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

✓ **BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS**



Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
1.0	1.350	1.200	1.150	1.050	1.050	950	900	850
1.2	1.400	1.250	1.200	1.100	1.100	1.000	950	900

(*) Breaking strength values (safety coefficient 1.5)

Standard production

Non-standard production

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.

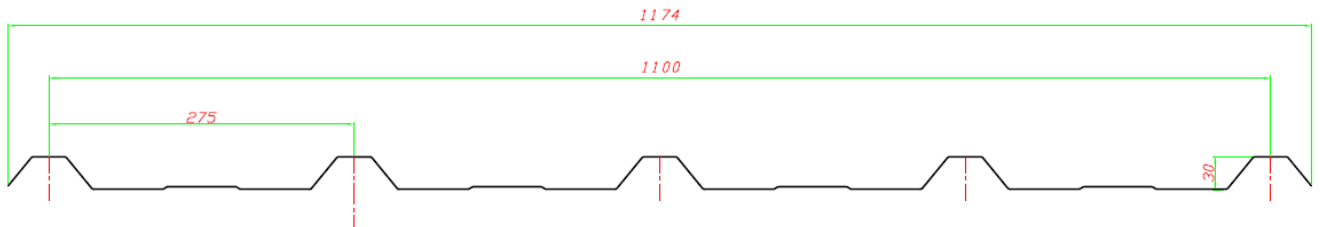
For further laying conditions see the POLITEC WT® TECHNICAL manual.

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

ANNEX 24 - TRAPEZ 275/30

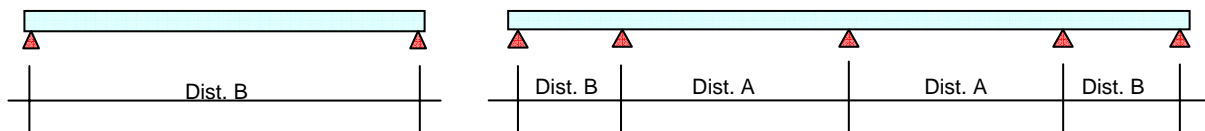
POLITEC WT TRAPEZ 275/30

Section



THICKNESSES	0.8 mm		
WEIGHT	1.20 kg/m²		
WIDTH	Nominal (Sheet max) 1.174 mm	Useable 1.100 mm	
STANDARD LENGTH	6.000 mm		
AVAILABLE COLOURS	Crystal Opal		
THERMAL EXPANSION	0.065 mm/m °C ($6.5 \times 10^{-5} 1/°C$)		
MINIMUM RADIUS OF CURVATURE	7.000 mm		
MINIMUM SLOPE	5%		
RECOMMENDED FIXING	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)		
SPACER MADE OF FOAMED PE	Not available		

✓ BREAKING STRENGTH VALUES (*) FOR UNIFORMLY DISTRIBUTED LOADS



Thickness mm	Distance A				Distance B			
	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²	600 N/m ²	900 N/m ²	1.200 N/m ²	1.500 N/m ²
0.8	1.250	1.100	1.050	1.000	1.000	900	850	800

(*) Breaking strength values (safety coefficient 1.5)

Standard production

Non-standard production

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