

TRASPIR METAL



CERTIFIED NOISE REDUCTION

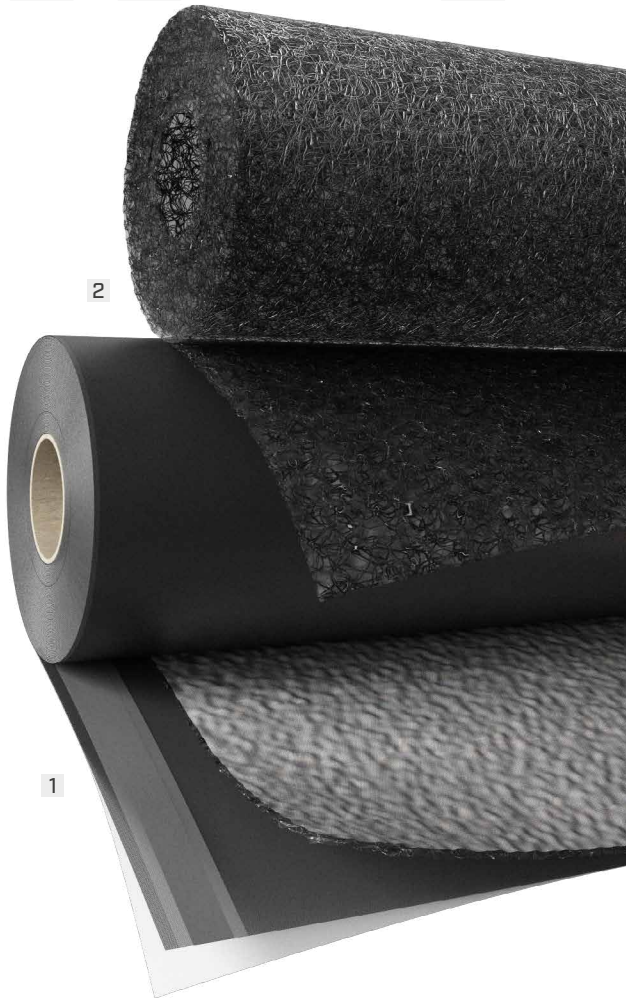
The 3D mats guarantee reduction of airborne and heavy rain noises. Values tested and certified.

PROTECTIVE FELT

The breathable membrane with 3D grid includes a fifth layer that blocks impurities and improves ventilation.

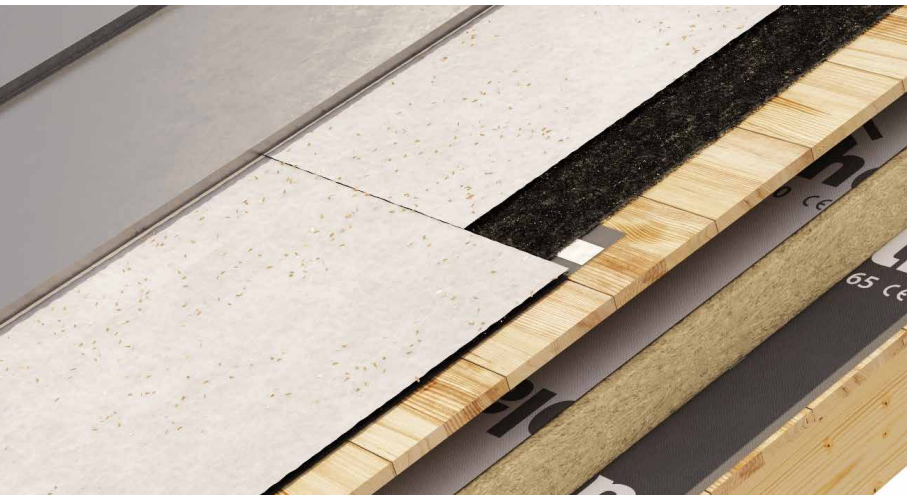
HIGH DENSITY 3D GRID

The 3D mat has high mechanical strength and is also appropriate for aluminium sheet metal.



CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m²]	H [ft]	L [ft]	A [ft²]	
1 TTTMET610	TRASPIR 3D COAT TT	TT	1,35	33	44,55	4.43	108.27	479.54	4
2 NET350	NET 350	-	1,25	50	62,5	4.11	164	672.75	4



SAFE VENTILATION

The breathable membrane TRASPIR 3D COAT comes with a 3D grid and a protective felt on the surface, that prevents the entry of impurities and improves ventilation.

VERSATILE

Also ideal in combination with BYTUM or TRASPIR to create a micro-ventilation layer in both wall and roof installations.

LABORATORY MEASUREMENTS

emitting room



receiving room

The effectiveness of TRASPIR METAL was demonstrated through an airborne soundproofing test and noise generated by heavy rain.
The chosen construction assembly was tested with and without TRASPIR METAL (sheet metal directly on the board).

reduction of noise from heavy rain **up to 4 dB**

RESULTS	WITHOUT TRASPIR METAL		WITH TRASPIR METAL	
 AIRBORNE NOISE	  $R_w = 43 \text{ dB}$	Increase of sound insulation by 1 dB	  $R_w = 44 \text{ dB}$	
 HEAVY RAIN	  $L_{IA} = 36,9 \text{ dB}$	Reduction of noise from rain up to 4.2 dB	  $L_{IA} = 32,7 \text{ dB}$	

RECOMMENDATIONS FOR INSTALLATION

TRASPIR 3D COAT



3D NET



TRASPIR 3D COAT TT

COMPOSITION

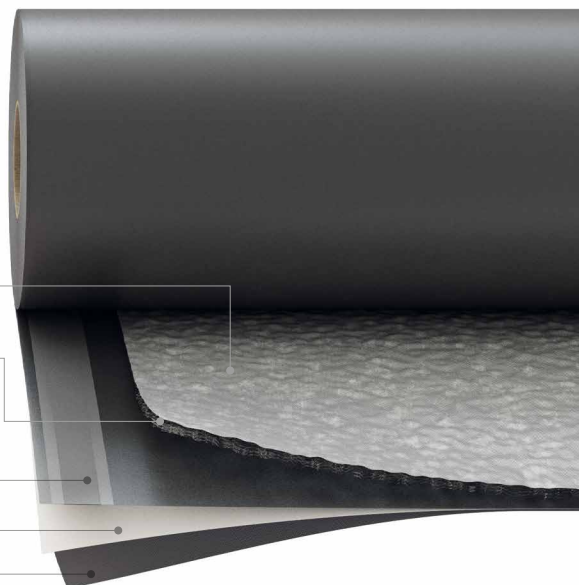
protection layer
non-woven PP fabric

middle layer
3-dimensional PP mat

protection layer
non-woven PP fabric

middle layer
PP breathable film

bottom layer
non-woven PP fabric



TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	600 g/m ²	1.97 oz/ft ²
Thickness	EN 1849-2	8 mm	0.315 in
Water vapour transmission (Sd)	EN 1931	0,025 m	139.86 US perm
Tensile strength MD/CD	EN 12311-1	300 / 220 N/50mm	34 / 25 lb/in
Elongation MD/CD	EN 12311-1	> 35 / 50 %	-
Resistance to nail tearing MD/CD	EN 12310-1	150 / 175 N	33.7 / 39.3 lbf
Watertightness	EN 1928	class W1	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,02 m ³ /(m ² h50Pa)	< 0.001 cfm/ft ² at 50Pa
Thermal conductivity (λ)	-	0,3 W/(m·K)	0.17 BTU/h·ft·°F
Specific heat	-	1800 J/(kg·K)	-
Density	-	approx. 75 kg/m ³	approx. 0.04 oz/in ³
Water vapour resistance factor (μ)	-	approx. 33	approx. 0.1 MNs/g
VOC content	-	< 0,02 %	-
UV stability ⁽¹⁾	EN 13859-1/2	3 months	-
Exposure to weather ⁽¹⁾	-	2 weeks	-
Water column	ISO 811	> 250 cm	> 98.4252 in
After ageing:			
- watertightness	EN 1297 / EN 1928	class W1	-
- maximum tensile force MD/CD	EN 1297 / EN 12311-1	> 240 / 155 N/50mm	27 / 22 lb/in
- elongation	EN 1297 / EN 12311-1	> 30 / 40%	-
Flexibility at low temperatures	EN 1109	-40 °C	-22 °F
Void ratio	-	95 %	-
Variation of the sound reduction index ΔR _w	ISO 10140-2 / ISO 717-1	1 dB	-
Variation in overall A-weighted sound intensity level from heavy rain noise ΔL _{1A}	ISO 140-18	approx. 4 dB	-

⁽¹⁾ For the correlation between laboratory tests and actual conditions, see the catalogue "TAPES, SEALANTS AND MEMBRANES" at www.rothoblaas.com.



COMPOSITION

3D grid
3-dimensional PP mat

TECHNICAL DATA

Properties	standard	value	USC conversion
Mass per unit area	EN 1849-2	350 g/m ²	1.15 oz/ft ²
Thickness	EN 1849-2	7.5 mm	0.295 in
Maximum tensile force MD/CD NET	EN 12311-1	1,3 / 0,5 N/50mm	0.15 / 0.06 lb/in
Elongation MD/CD NET	EN 12311-1	95 / 65 %	-
Temperature resistance	-	-40 / 80 °C	-40 / 176 °F
Reaction to fire	EN 13501-1	class F	-
Density	-	approx. 35 kg/m ³	approx. 0.02 oz/in ³
VOC emissions	-	< 0,02 %	-
UV stability ⁽¹⁾	EN 13859-1/2	3 months	-
Exposure to weather ⁽¹⁾	-	4 weeks	-
Void ratio	-	95 %	-
Variation of the sound reduction index ΔR_w	ISO 10140-2 / ISO 717-1	1 dB	-
Variation in overall A-weighted sound intensity level from heavy rain noise ΔL_{iA}	ISO 140-18	4 dB	-
Impact sound attenuation index ΔL_w	ISO 140-8	28 dB	-

⁽¹⁾ For the correlation between laboratory tests and actual conditions, see the catalogue "TAPES, SEALANTS AND MEMBRANES" at www.rothoblaas.com.



DURABILITY

When installed on a continuous support, it promotes micro-ventilation of metal roofs, preventing corrosion.