

# TRASPIR METAL

## 3D MATS FOR METAL ROOFS

### CERTIFIED NOISE REDUCTION

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

### PROTECTIVE FELT

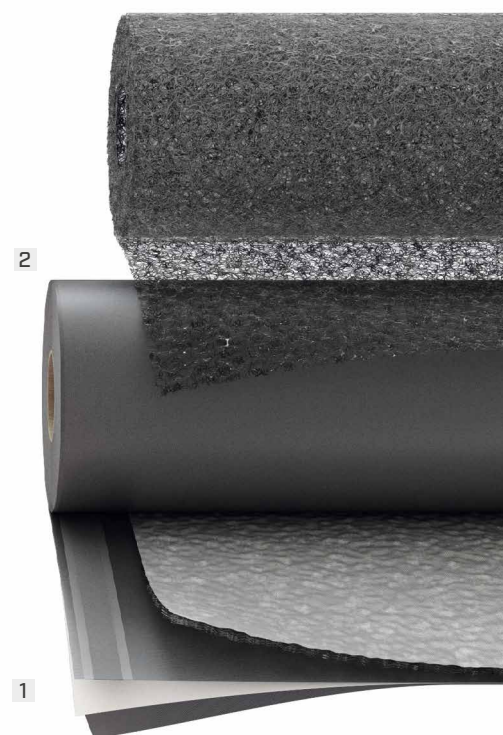
The breathable membrane with 3D grid includes a fifth layer that blocks impurities and improves ventilation.

### HIGH DENSITY 3D GRID

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

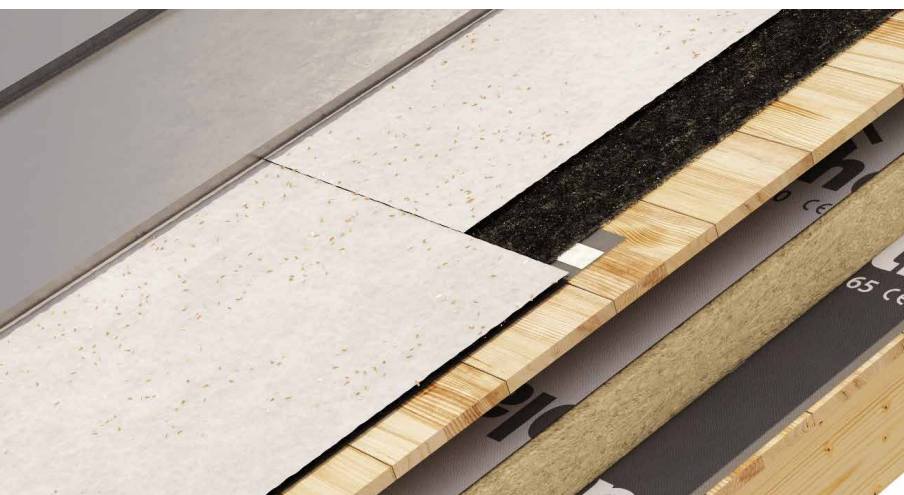


<b>AUS</b> AS/NZS 4200.1 Class 4	<b>USA</b> IRC vp	<b>A</b> Dnorm B4119 UD Typ I	<b>CH</b> SIA 232 UD (g)	<b>D</b> ZVDH USB-A UDB-A	<b>F</b> DTU 31.2 E1 Sd1 TR2 E600 Jf C1	<b>I</b> UNI 11470 A/R2
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## CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m <sup>2</sup> ]	H [ft]	L [ft]	A [ft <sup>2</sup> ]	
1 <b>TTMET610</b>	TRASPIR 3D COAT TT	TT	1,35	33	44,55	4.43	108.27	479.54	4
2 <b>NET350</b>	NET 350	-	1,25	50	62,5	4.11	164	672.75	4



### SAFE VENTILATION

The TRASPIR 3D COAT breathable membrane comes with a 3D grid and 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.

## RECOMMENDATIONS FOR INSTALLATION

### TRASPIR 3D COAT

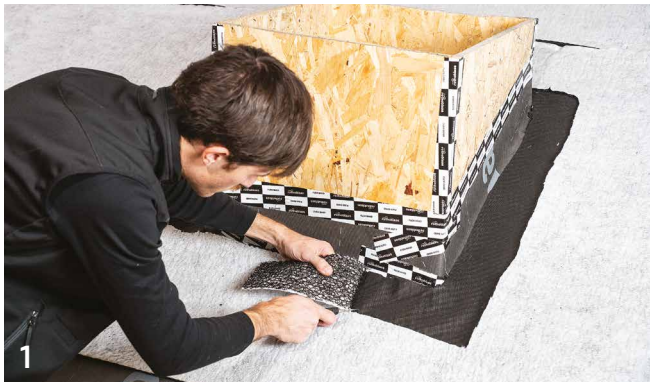


1 HAMMER STAPLER 47, HAMMER STAPLER 22, HAND STAPLER, STAPLES

### 3D NET



### CHIMNEY DETAIL WITH TRASPIR 3D COAT



1 MARLIN, CUTTER

2 TRASPIR NET 160, TRASPIR EVO 160, TRASPIR 200, TRASPIR EVO SEAL 200, TRASPIR EVO 220, TRASPIR ADHESIVE 260, TRASPIR DOUBLE NET 260, TRASPIR EVO 300, TRASPIR DOUBLE EVO 340

3 ROLLER

4 EASY BAND, FLEXI BAND, FLEXI BAND UV, FACADE BAND, PLASTER BAND

# TRASPIR 3D COAT TT

## COMPOSITION

- ① protective layer: non-woven PP fabric
- ② middle layer: 3-dimensional PP mat
- ③ protective layer: non-woven PP fabric
- ④ middle layer: PP breathable film
- ⑤ bottom layer: non-woven PP fabric



## TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	600 g/m <sup>2</sup>	1.97 oz/ft <sup>2</sup>
Thickness	EN 1849-2	8 mm	315 mil
Water vapour transmission (Sd)	EN 1931	0,025 m	140 US Perm
Tensile strength MD/CD	EN 12311-1	300/225 N/50 mm	34/25 lbf/in
Elongation MD/CD	EN 12311-1	> 35/50 %	-
Resistance to nail tearing MD/CD	EN 12310-1	175/150 N	39/34 lbf
Watertightness	EN 1928	class W1	-
After ageing:			
- watertightness	EN 1297/EN 1928	class W1	-
- tensile strength MD/CD	EN 1297/EN 12311-1	285/185 N/50 mm	32/21 lbf/in
- elongation	EN 1297/EN 12311-1	35/30 %	-
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,02 m <sup>3</sup> /(m <sup>2</sup> h50Pa)	< 0.001 cfm/ft <sup>2</sup> at 50Pa
Flexibility at low temperatures	EN 1109	-40 °C	-40 °F
Resistance to temperature	-	-40/80 °C	-40/176 °F
UV stability <sup>(1)</sup>	EN 13859-1/2	336h (3 months)	-
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 <sup>3</sup>	approx. 4.7 lbm/ft <sup>3</sup>
Water vapour resistance factor (μ)	-	approx. 3.3	approx. 0.13 MNs/g
VOC	-	not relevant	-
Water column	ISO 811	> 250 cm	> 98.4252 in
Void ratio	-	95 %	-
Variation of the sound reduction index ΔR <sub>w</sub>	ISO 10140-2/ISO 717-1	1 dB	-
Variation in overall A-weighted sound intensity level from heavy rain noise ΔL <sub>iA</sub>	ISO 140-18	approx. 4 dB	-
Impact sound pressure level attenuation ΔL <sub>w</sub> (SILTNET10) <sup>(2)</sup>	ASTM E492	15 dB	-

<sup>(1)</sup>Laboratory ageing tests are not able to reproduce the unpredictability of the product's degradation or the stresses to which it will be subjected during its service life. To ensure its integrity, it is recommended to limit the time of exposure to the weather during the construction phase to a maximum of 2 weeks.

<sup>(2)</sup>Laboratory measurement on 175 mm CLT floor structure with 38 mm self-levelling screed.

## 3D NET

### COMPOSITION

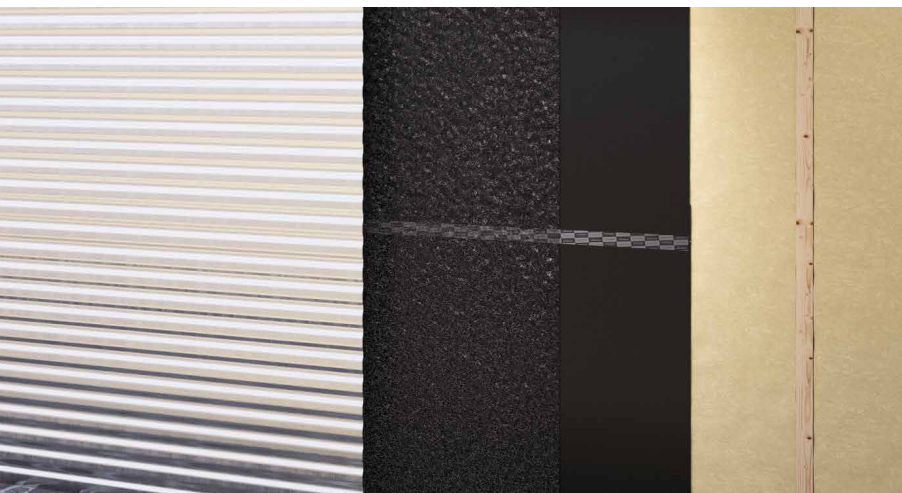
- ① 3D net: 3-dimensional PP mat



### TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	350 g/m <sup>2</sup>	1.15 oz/ft <sup>2</sup>
Thickness	EN 1849-2	7.5 mm	295 mil
Tensile strength MD/CD	EN 12311-1	1,3/0,5 N/50 mm	0.15/0.06 lbf/in
Elongation MD/CD	EN 12311-1	95/65 %	-
Reaction to fire	EN 13501-1	class F	-
Resistance to temperature	-	-40/80 °C	-40/176 °F
UV stability <sup>(1)</sup>	EN 13859-1/2	336h (3 months)	-
Density	-	approx. 45 kg/m <sup>3</sup>	approx. 2.8 lbf/ft <sup>3</sup>
VOC	-	not relevant	-
Void ratio	-	95 %	-
Variation of the sound reduction index $\Delta R_w$	ISO 10140-2/ISO 717-1	1 dB	-
Variation in overall A-weighted sound intensity level from heavy rain noise $\Delta L_{jA}$	ISO 140-18	4 dB	-

<sup>(1)</sup>Laboratory ageing tests are not able to reproduce the unpredictability of the product's degradation or the stresses to which it will be subjected during its service life. To ensure its integrity, it is recommended to limit the time of exposure to the weather during the construction phase to a maximum of 4 weeks.



### DURABILITY

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