Globe Roof Mineral Sound

sound-insulating and sound-absorbing roof panel made of mineral fibre

PANEL WITH REACTION TO FIRE: CLASSE A2-S1. D0

DIMENSIONS:
WIDTH: 1.000 MM
LENGTH: CUSTOMISABLE
MAXIMUM LENGTH AVAILABLE: ON DEMAND
THICKNESSES: MM 50, 60, 80, 100, 120, 150, 180, 200

INSULATING CORE:
MADE WITH AN INSULATION LAYER COMPOSED OF BIOSOLUBLE MINERAL WOOL STRIPS, PLACED IN A LONGITUDINAL WAY, WITH THE FIBRES BEING SET AT 90 DEGREES TO THE PLANE OF THE TWO FACINGS, WITH A BLACK GLASS FILM INTERPOSED TO THE DRILLED STEEL FACING. THE RIBS OF THE EXTERNAL FACING ARE FILLED WITH MINERAL FIBRE STRIPS.
DENSITY: 100 KG/M3 ±10%
DIFFERENT DENSITY AVAILABLE ON DEMAND.
THERMAL-CONDUCTIVITY COEFFICIENT TILL = 0.039 WATT/MK.

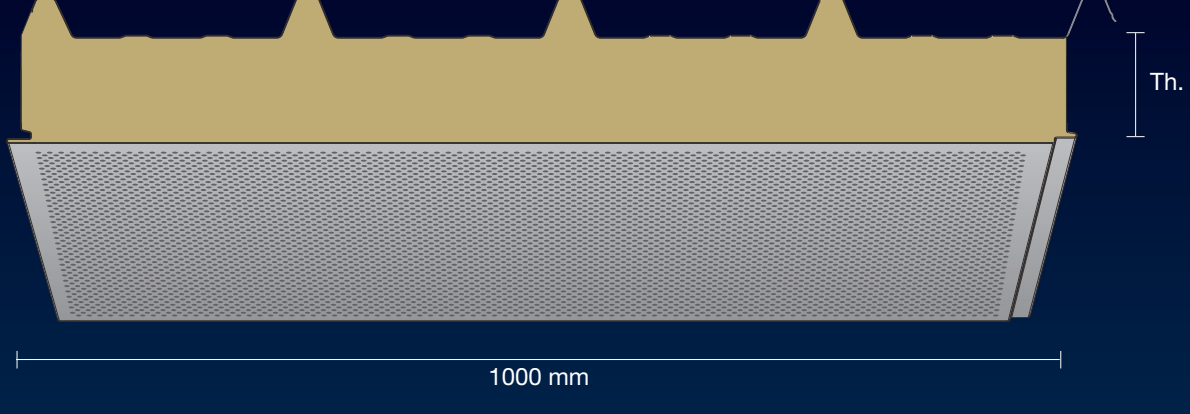
SOUND-ABSORPTION:
THICKNESS MM 50: AW = 0.90
THICKNESS MM 80: AW = 0.95
THICKNESS MM 100: AW = 0.95

SOUND-INSULATION:
THICKNESS MM 50: RW = 31 DB
THICKNESS MM 80: RW = 34 DB
THICKNESS MM 100: RW = 35 DB

FACINGS:
PREPAINTED OR PLASTICISED GALVANISED STEEL; NATURAL EMBOSSED OR PREPAINTED ALUMINIUM; STAINLESS STEEL, COPPER.
THE STANDARD THICKNESSES OF THE GALVANISED STEEL AND PREPAINTED FACINGS ARE 0.5 MM + 0.6 MM.OTHER THICKNESSES ARE AVAILABLE ON DEMAND.

DIMENSIONAL TOLERANCES (MM):
LENGTH: ±10
PITCH WORKING WIDTH: ±2
PANEL THICKNESS: ±2
DEVIATION FROM CUTTING LINE SQUARENESS: ±3

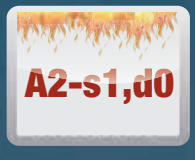
STANDARD COLOURS:
WHITE, GREY.
ON DEMAND, ALL RAL COLOURS ARE AVAILABLE.



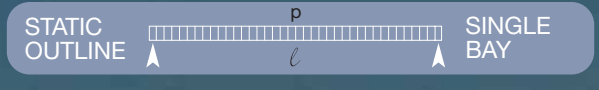
ROOFS mineral fibre

Available internal facing (to be specified when ordering)

Globe Panels Ltd.



Static characteristics (kg/m²)



External facing: steel 0.5 mm. - Internal facing: steel 0.5 mm.

PANEL THICKNESS (mm)	DISTANCE BETWEEN SUPPORTS (ml)									
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
50	155	110	75	50						
60	180	130	90	65						
80	240	170	125	90	65	50				
100	295	215	160	120	90	70	55			
120	355	260	195	150	115	90	70	55		
150	435	325	250	195	150	120	95	75	60	50
180	520	385	305	240	190	150	120	100	80	65
200	575	430	335	270	215	170	140	110	90	75

Calculation for static sizing according to the Annex E of the UNI EN 14509 standard
Deflection limit 1/200 ℓ

Thermal characteristics

U transmittance	PANEL NOMINAL THICKNESS (mm)							
	50	60	80	100	120	150	180	200
W/m² K	0.760	0.630	0.470	0.380	0.320	0.250	0.218	0.195
Kcal/m² h °C	0.655	0.543	0.405	0.328	0.276	0.216	0.188	0.168

Technical		50mm	80mm	100mm	120mm	150mm	180mm	200mm
Panel thickness [mm]		50	80	100	120	150	172	200
Weight SNV [kg/m²]	Fe 0.6 / Fe 0.6	18.9	21.3	23.7	26.1	29.7	32.4	35.7
U Thermal conductivity [W/m²K] (EN 14509:2006)		0.76	0.47	0.38	0.32	0.25	0.218	0.195
Fire resistance class SNV (EN 13501-2)		REI 30	REI 60	REI 90	REI 120	REI 120		
Combustibility of insulant core (EN 13501-1)		Non - combustible, class A1						
Rw Sound reduction [dB] (EN ISO 140-3)		31	34	35				
Min. roof slope		5° or 3° with additional sealing						
Cover width [mm]		1000						
Panel length [m]		up to 14						