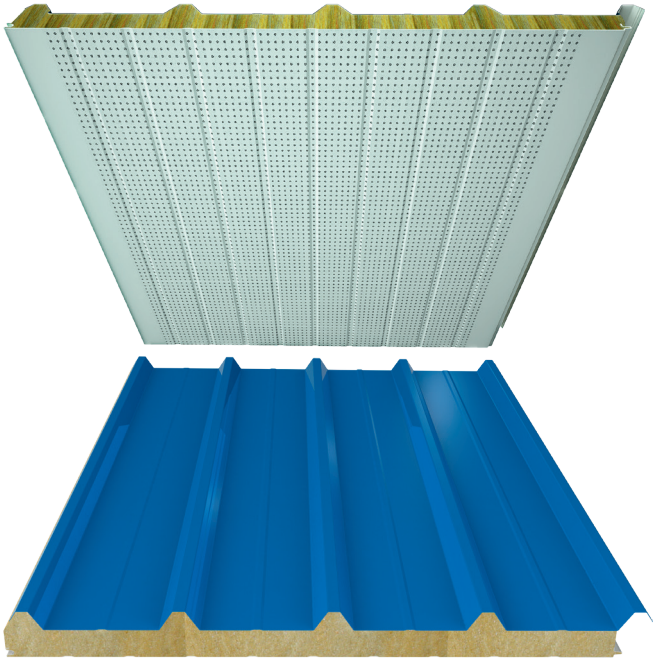
N5T Acoustic Roof Panel



Product Information

It has A-class sound absorption performance and high sound insulation performance. Moreover, it can be used safely in the buildings where there is high risk of fire and which requires maximum fire endurance thanks to its mineral wool inner core.

Production Plant

Balıkesir

Product Application

- Industrial Buildings • Military Buildings
- Public Buildings
- Agricultural Buildings
- Sports Facilities
- Construction Site Buildings
- Silos
- Hypermarkets
- Shopping Centers
- Storehouse Halls
- Administrative Buildings

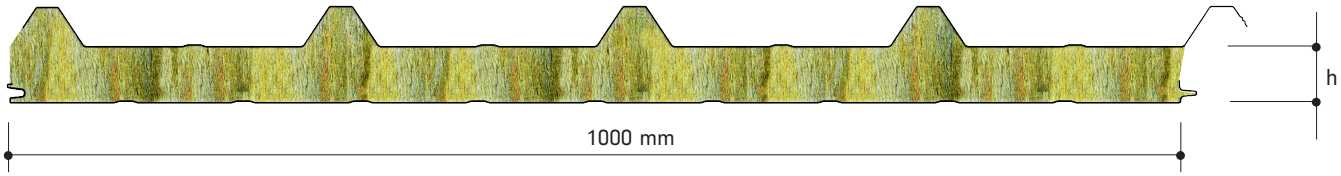
and all other concrete structures with steel

EN.PRR.N5TA.02

Performance Advantages

The best fire endurance values.
Fast and problem-free assembly saves both time and labor.
Apart from heat insulation, high performance in sound insulation.
The colorful surface does not require additional coating like plaster or paint.
Colour can be selected from the RAL catalogue.
There are surface paint options (Polyester, PvdF, Plastisol, PVC) suitable to the place of use.
It can be used with minimum 7% slope as roof covering
It does not wear out or decay or become mouldy in time.
High sound insulation performance.
It can be used with cap profile in ay desired colour of minimum 0,60 thick.

Measurements



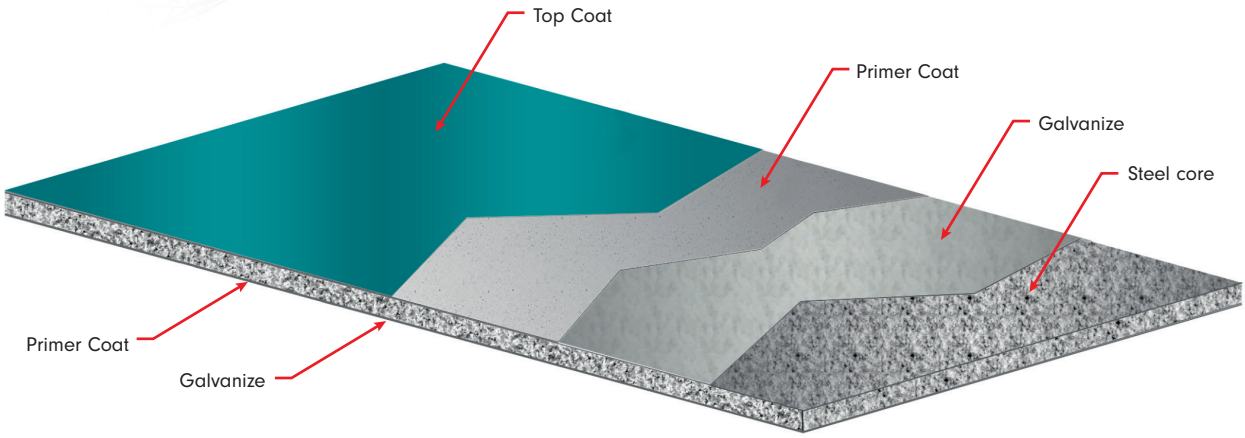
h: 50-60-70-80-100-120-130-150 mm

Favourable Width	1000 mm
Minimum Length	3 meters
Maximum Length	Depends on Transport Conditions

Mineral Wool

Mineral Wool Density	100 (±10) kg/m^3
Mineral Wool Thickness	50-60-70-80-100-120-130-150 mm
Heat Insulation Coefficient	0,043 W/mK
Inflammabiliy Class (EN 13501-1)	A1
Water Absorption	2% by Volume
Heat Resistance	600 °C
Sound Insulation Rw (dB) ≥	30
Water Vapor Diffusion (EN 12086)	1

Metal Surfaces



Prepainted Galvanized Steel Surface

Type	Boyalı Galvaniz Sac
External Facing Thickness	0,55-0,80 mm
Internal Facing Thickness	0,55-0,80 mm
Thickness Tolerance (EN 10143)	Nominal
Steel Quality (EN 10327)	DX51 D+Z Boyalı Galvanizli Sac (astar üzeri son kat polyester boya)
Paint Type	Polyester, PvdF, Plastisol, PVC

Mineral Wool Thermal Conductivity

Panel Thickness	U Thermal Conductivity (W/m^2K)	R Thermal Conductivity (m^2K / W)	R Thermal Conductivity (ft^2 °F h/Btu)
50 mm	0,840	1,190	6,760
60 mm	0,700	1,429	8,111
70 mm	0,600	1,667	9,463
80 mm	0,525	1,905	10,815
100 mm	0,420	2,381	13,519
120 mm	0,350	2,857	16,223
130 mm	0,323	3,095	17,575
150 mm	0,280	3,571	20,279

Change of Sound Transmission Loss by Frequency (dB)

Mineral Wool Thickness	Frequency															
	50	63	80	100	125	160	200	250	500	630	1000	1600	2000	2500	4000	5000
50 mm	29,5	21,9	20,2	19,9	26,4	29,5	27,6	26,5	28,8	31,7	36,8	31,9	33,8	33,8	49,7	52,9

Tolerances

Panel Length	Panel Thickness	Panel Cover Width	Rectangularity
If L<=3000 mm., ±5mm If L>3000 mm, ± 10mm	D ≤ 100mm ±2mm	± 2mm for all profile	0.6% of s ≤ nominal cover thickness (Width x 0.006)

Standard Package

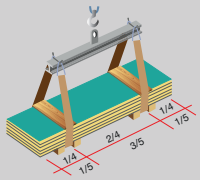
Thickness (mm)	50	60	70	80	100	120	130	150
Number	14	12	10	10	8	6	6	6

Standard Color Options

RAL 3009 | RAL 5010 | RAL 5018 | RAL 6021 | RAL 7016 | RAL 9002 | RAL 9006

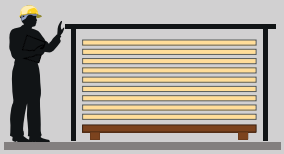
Joint Details

Transportation and Protection of Sandwich panel

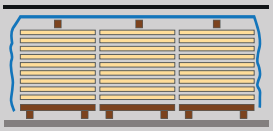


During hoisting take precaution for the sling.

Do not drag panels in a pile, or on the roof purlins. Lift panels from both ends when moving or laying in place.



Panels to be strored on site for long periods should be stacked in covered areas. Wherever possible, always place stacks preferably on wooden wedges, against ground water.



For shorter periods, stacks should be arranged on sloppy areas with a simple scaffolding and polyethilen cover, leaving space for ventilation. Place stacks on a simple wedge.

Do not walk on panels.