

TECHNICAL DATA SHEET (TDS)

ABOUT NEVPANEL®

NevPanel® is the first made-in Turkey Magnesium Oxide construction and insulation panel at world class quality. 100% natural, breathable and durable boards can be used in both interior and exterior applications for all types of insulation requirements.

Main features of **NevPanel®** insulation and construction panels;

- A1 Class Fire proof and flameproof
- Water resistant and dump free
- High Heat and Sound Insulation
- Impact resistant
- Ecologic & Environment friendly
- No Discharge of Toxics
- Insect and Bacteria Free
- Highly resistant to variable climate conditions



NevPanel® is one of the major construction panels that provides all these features in one product.

Easy installation saves from time and labor. **NevPanel®** dry wall systems increase the room space by minimizing the thickness of the walls. Panel's light weight takes the additional load from the building structure which also helps to improve safety and quality of the buildings. **NevPanel®**'s eco-friendly and recyclable nature contributes to green and sustainable projects.

PRODUCTS

PRODUCTS		TOLERANCES
DIMENSIONS (mm)	1220x2440/2750/3000	±0,5 mm
THICKNESS (mm)	9	±%5
COLOR	Pale White	Colors available on demand.
SURFACE	Front: Smooth Back: Sanded	-

*Custom sizes available on demand.

COMPOSITION

NevPanel® is made of magnesium oxide, magnesium chloride, perlite, woodchips and reinforced with multi layers of fiberglass fabric.

NevPanel® does not contain Asbestos, organic solvents, toxins or heavy metals.

FIELDS OF APPLICATIONS

- * Timber Frame/Steel/Light steel interior and exterior walls
- * SIP (Structural Insulated Panels)
- * Exterior Cladding as reinforcement
- * Indoor Partition wall systems
- * Suspended Ceiling
- * Fire/Access/Shaft doors
- * In systems where insulation and Fire protection is required.

NevPanel® can be used against effects of fire and sea water in shipping and yacht building sectors.

All **NevPanel®** boards should be handled and applied as advised by the manufacturer.

THICKNESS						
4 mm	6 mm	9 mm	12 mm	15 mm	18 mm	25 mm
✓		✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓
					✓	✓
✓			✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓

APPLICATIONS

Indoor
Ceiling
Raised Floor
Outdoor
Wall and Wall Cladding
Shaft Coatings and Fire Resistant Coating-Applications

TECHNICAL CHARACTERISTICS and SPECIFICATIONS

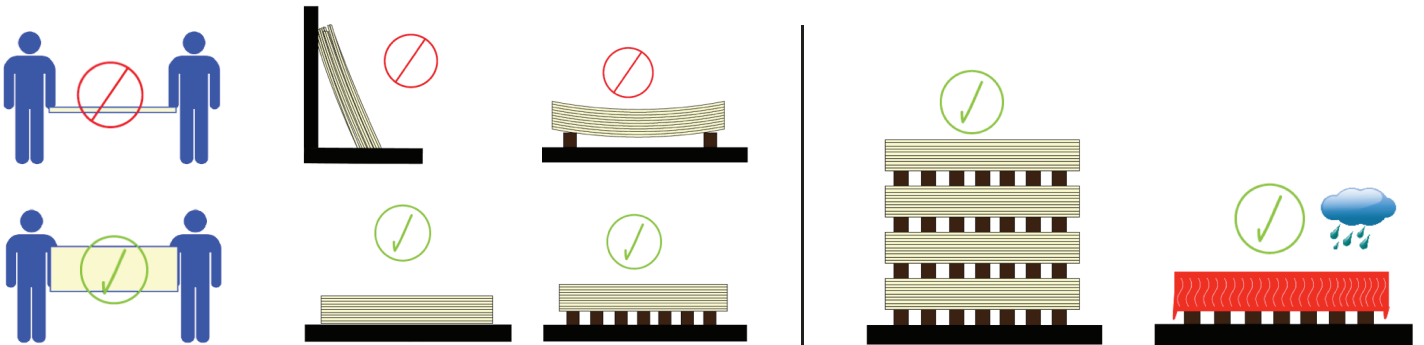
SPECIFICATIONS	STANDARD	RESULTS	UNIT
Density	TS EN 12467	950±%10	kg/m ³
Surface Alkalinity (pH)	-	9-10	
Thermal Conductivity	TS EN 12667	≤ 0,500	W/mK
Diffusion Equivalent Thickness S _d	EN ISO 12572	0,56	m
Microbial Reproduction	EN ISO 846 A	None	
Formaldehyde	EN 717-1	E1	
FIRE SPECIFICATIONS			
Fire Performance	TS EN 13501-1+A1	A1 Class Non-Combustible	
Fire Response	TS EN 13501-2	EI45	
MECHANICAL SPECIFICATIONS			
Bending Strength MOR**	TS EN 12467	>7	MPa
Modulus of Elasticity MOE**	TS EN 12467	1458	Mpa
Tensile Strength	EN 789	>4	Mpa
Parallel with board	EN 319	>0,8	Mpa
Perpendicular to board			
Compressive Strength	EN 789	>11	Mpa
Perpendicular to board			
Pull-through Resistance	EAD350142-00-1106 WET DRY	>450 >550	Newton
Resistance to Soft Body Impact	EOTA TR 001	120	Nm
Resistance to Hard Body Impact	EOTA TR 001	10	
Resistance to Eccentric Load	ISO/DIS 8413	20	kg
HYGROSCOPIC SPECIFICATIONS			
Moisture Content	EN 322	<%10	
Linear Moisture Motion Lm	TS EN 12467	%0,06	
Water Absorption Rate by Weight		<%30	
Moisture Related Size Change	EN 318	≤ 1 ≥ -2,0	mm/m (max increasing) mm/m (max decreasing)
Moisture Related Thickness Change	EN 318	≤ 0,5 %	(max increasing)
Freeze-Thaw Resistance	TS EN 12467	RL:0,72	
Wet-Dry Resistance	TS EN 12467	RL:0,70	
Hot Water Resistance	TS EN 12467	RL:0,49	

**Samples are conditioned under water for 24-48 hours as prescribed by standard

TRANSPORTATION and STORAGE

NevPanel® must be carried and applied in the manner recommended by manufacturer. It should be stored on a flat and dry floor with good ventilation. More than 4 pallets should not be stacked on top of each other.

Uninstalled boards must be stored strapped on pallets at all times.



DISPOSAL

NevPanel® is not scope as hazardous waste. The accumulated dusts are treated as building industry waste under local law.



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