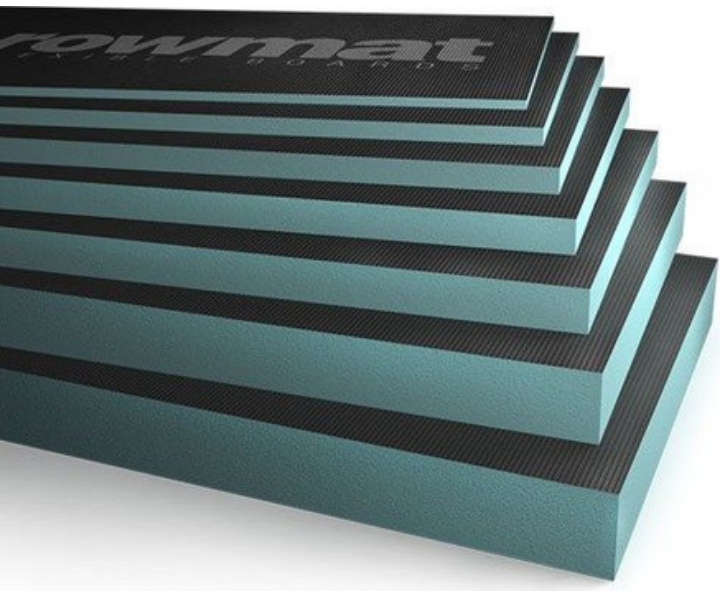
Technical data sheet



Product properties

1. Wide range of applications
2. Easy to use and apply - lightweight
3. Extremely durable
4. Waterproof
5. Thermal insulation
6. Weather resistant

General product description

Rowmat is a complete advanced construction system of high specifications and durability, which consists of Rowmat construction boards, Rowmat VLA and Row screws, which are specially designed for the needs of the Rowmat system. Rowmat board is manufactured from extruded polystyrene, bilaterally cement-coated.

Rowmat ensures high mechanical strength, while it has excellent thermal insulation and waterproof properties.

How can I use the rowmat board?

- Saving construction time
- It can be the basic building material for a wide range of constructions (special constructions, bathroom, kitchen furniture, etc.).
- The use of a metal frame is not required in most constructions.
- Simple construction knowledge is sufficient for its application.

Technical properties of the rowmat board

Extruded polystyrene	Unit of measurement	RM BOARD	Standard
Tensile strength perpendicular to faces	Kpa	>400	EN 1607
Fireproofing category	Class	E	EN 13501-1
Thermal conductivity (Declared value after 25 years)	W/ (mK)	0,003	EN 12667
Thickness tolerances		T3	EN 823
Operating temperature	From -50 ◦ c up to +75 ◦ c		

Technical properties of xps 400

Designation code: XPS(Extruded Polystyrene) EN 13164 - T1- CS(10\Y)400 - DS(70,90) - WL(T)0.7 - WD(V)3

Technical Characteristics	Symbol EN 13164	Unit	Value	EN standard
Surface	Smooth surface			
Edges profile lengthwise / widthwise	I (straight) / I (straight) or L (shiplap) / L (shiplap)			
Dimensions	-	mm	1250 x 600	EN 822
Nominal thickness	dN	mm	30 - 100	EN 823
Thickness tolerance	T	Class	T1 (±2 mm < 50mm -2,+3mm ≥ 50mm)	EN 13164
Declared Thermal Conductivity Coefficient at 10 °C (after 25 years)	λD	W/(m*K)	0,033 ≤ 60mm	EN 13164
			0,034 > 60mm	EN 12667
Compressive Stress at 10% thickness deformation	CS(10)	kPa	400	400 EN 826
Maximum design load	-	kN/m2	< 150	EN 13164
Long-term water absorption by total immersion	WL(T)	Vol. %	< 0,7	7 EN 12087
Water absorption by diffusion	WD(V)	Vol. %	< 3	EN 12088
Water vapor diffusion resistance factor , μ	MU		50 - 150	EN 12086
Operating temperature	-	°C	from -50 to +75	-
Fire Classification	-	Class	E	EN 13501-1

Thermal resistance R_D

Nominal Thickness	dN	mm	30	40	50	80	100	EN 823
Thermal Resistance	RD	m K/W	0,9	1,2	1,5	2,35	2,9	EN 13164

Rowmat board characteristics

Product	Thickness	Dimensions	kg/m²	m²/pallet
RM 12	12 mm	2000 x 600 mm	6,0	36 m²
RM 22	22 mm	2500 x 600 mm	6,6	135 m²
RM 32	32 mm	2500 x 600 mm	7,0	120 m²
RM 42	42 mm	2500 x 600 mm	7,2	102 m²
RM 52	52 mm	2500 x 600 mm	7,6	84 m²
RM 72	72 mm	2500 x 600 mm	8,0	60 m²
RM 82	82 mm	2500 x 600 mm	8,6	54 m²
RM 102	102 mm	2500 x 600 mm	9,4	42 m²

ORB 22	22 mm	2000 x 600 mm	6,0	135m^2
ORB 32	32 mm	2500 x 600 mm	7,0	135m^2

Delivery Time: in stock
Packing: boards on pallets
Storage: the Rowmat boards should be stored flat irrespective of their thickness.

**They must be protected against direct sunlight.*