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ARPLAK WATER AND FIRE RESISTANT

DESCRIPTION

-Arplak is a water and fire resistant interior gypsum board with structural strength and durability above standard levels, featuring strong beveled edges for greater durability and the ability to adapt to movement.

AREA OF APPLICATION

- Used in interior partition wall, cladding wall, shaft wall and suspended ceiling applications where resistance to water and fire is required.

WARNINGS AND RECOMMENDATIONS

-When carrying gypsum boards by hand, it is recommended that they be carried by 2 people with the long edge parallel to the ground.
-If transported by forklift, care must be taken to ensure that the forklift used has sufficient lifting capacity and that the forklift operator is licensed and experienced.
-Gypsum boards must never be leaned in a vertical position.
-Boards to be applied must be dry and have an even surface. Gypsum boards that have become damp or deformed in the storage area due to unfavorable storage conditions must not be used.
-It is not suitable to apply gypsum boards whose surface temperature exceeds 50 °C during storage.
-If wet works such as screed, plaster, etc. are to be carried out after the gypsum board installation, the necessary precautions must be taken so that the gypsum boards are not affected by moisture and water.
-Arplak water and fire resistant gypsum boards must not be used as a waterproofing material.
-Applying coarse plaster gypsum on Arplak water and fire resistant board is not recommended.

APPLICATION

-The metal frame of the partition wall, cladding wall or suspended ceiling to be built in accordance with the plan is marked on the floor or ceiling.
-After measuring and marking, the metal frame is assembled in accordance with the application conditions.
-Where gypsum boards need to be cut, they are cut from the front face using a utility knife guided by a straightedge. The tip of the utility knife must cut through the paper and enter the core. The gypsum board is then bent in the direction opposite to the cut face, the paper on the back face is likewise cut with the utility knife, and the pieces are separated.
-After the gypsum boards are cut, the cut edges can be smoothed using a plane.
-An artificial bevel of approximately 45° should be created on the cut edges and on the non-beveled edges of the gypsum boards using suitable tools.
-Creating an artificial bevel will allow for a smoother and easier application of the joint filling plaster.
-Gypsum boards must be fixed at their joints without any gap between them, and the screws must be fixed perpendicularly at a distance of at least 10-15 mm from the board edges.
-In bonded cladding wall applications, the gypsum boards are bonded to the existing building wall using Arslanlı Gypsum Board Bonding Plaster.
-After fixing, Arslanlı Gypsum Board Joint Filling Plaster is applied in 3 coats to the screw heads and to the joints where joint tape has been applied.
-Arslanlı Satin Finishing Plaster is applied at a maximum thickness of 1 mm (1 kg/m^2) to prepare the surface for the final coating.

REFERENCE STANDARD

-TS EN 520+A1

STORAGE

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-Must be stored in a dry, moisture-free environment, on a flat surface, without direct contact with the ground, and protected from direct sunlight and any outdoor weather or wetting conditions.
-Wedges/battens should be placed under the boards, parallel to the short edges, starting no more than 10 cm from the edges and spaced at intervals of no more than 50 cm, so that the boards do not come into contact with the ground.
-A maximum of 6 pallets should be stacked on top of each other (max. height 450 cm), with the wedges/battens between the pallets aligned with one another.

TECHNICAL SPECIFICATIONS

Nominal Thickness	9.5 mm	12.5 mm	15 mm	18 mm
Average Weight (kg/m2)	≤ 8.50	≤ 10.00	≤ 12.50	≤ 15.00
Breaking Load in Bending, Short Edge (N)	≥ 160	≥ 210	≥ 250	≥ 303
Breaking Load in Bending, Long Edge (N)	≥ 400	≥ 550	≥ 650	≥ 774
Edge Type	Square Edge, Tapered Edge			
Thermal Conductivity (W/m.K)	0.25			
Total Water Absorption (%)	H1		≤ 5	
	H2		≤ 10	
	H3		≤ 25	
Surface Water Absorption (g/m2)	H1		< 180	
	H2		< 220	
	H3		< 300	
Water Vapor Diffusion Resistance Factor (μ)	10			
Core Cohesion (min)	≥ 15			
Reaction to Fire Class	A2-s1-d0			

	Code	Width mm	Length mm	Packaging
9.5 mm	8931-H1	1200	2000	34-118
		1200	2200	34-118
		1200	2400	34-118
		1200	2500	34-118
		1200	3000	34-118
	8931-H2	1200	2000	34-118
		1200	2200	34-118
		1200	2400	34-118
		1200	2500	34-118
		1200	3000	34-118
	8931-H3	1200	2000	34-118
		1200	2200	34-118
		1200	2400	34-118

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		1200	2500	34-118
		1200	3000	34-118
12.5 mm	8932-H1	1200	2000	26-90
		1200	2200	26-90
		1200	2400	26-90
		1200	2500	26-90
		1200	3000	26-90
	8932-H2	1200	2000	26-90
		1200	2200	26-90
		1200	2400	26-90
		1200	2500	26-90
		1200	3000	26-90
	8932-H3	1200	2000	26-90
		1200	2200	26-90
		1200	2400	26-90
		1200	2500	26-90
		1200	3000	26-90
15 mm	8933-H1	1200	2000	22-74
		1200	2200	22-74
		1200	2400	22-74
		1200	2500	22-74
		1200	3000	22-74
	8933-H2	1200	2000	22-74
		1200	2200	22-74
		1200	2400	22-74
		1200	2500	22-74
		1200	3000	22-74
	8933-H3	1200	2000	22-74
		1200	2200	22-74
		1200	2400	22-74
		1200	2500	22-74
		1200	3000	22-74
18 mm	8934-H1	1200	2000	18-62
		1200	2200	18-62
		1200	2400	18-62
		1200	2500	18-62
		1200	3000	18-62
	8934-H2	1200	2000	18-62
		1200	2200	18-62
		1200	2400	18-62
		1200	2500	18-62
		1200	3000	18-62
	8934-H3	1200	2000	18-62
		1200	2200	18-62

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		1200	2400	18-62
		1200	2500	18-62
		1200	3000	18-62