boardeX
exterior sheathing
Exterior Sheathing

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Product Data and Submittal Sheet

STANDARD

Standard	TS EN 15283-1+A1	Gypsum board with mat reinforcement
Type	GM - F H1 R	

TECHNICAL SPECIFICATION

Length	1200 - 2400 mm	
Width	1200 mm	
Thickness	12,5 mm	15 mm
Average weight	~10,8 kg/m²	~13,5 kg/m²
Shear strength	≥ 1000 N	
Total water absorption (by the weight)	≤ 5% acc. toTS EN 15283-1, H1	
Linear variation (Due to change in moisture content)	0,004 mm/mt.%RH	
Linear variation (Due to change in temperature)	0,015 mm/mt.°C	
Bending diameter	1.5 m	
Mould resistance	10 * (according to ASTM D 3273)	
Water vapour permeability resistance factor	10	
Thermal conductivity	0,25 W/m.K	
Edge type	IK(Tapered Edge) – KK(Square Edge)	
Fire resistance	A1 :Noncombustible according to TS EN 13501-1	

PACKAGING

Thickness	12,5 mm	15 mm
Number of boards in one pallet	50 pcs/pallet	40 pcs/pallet

(*) When tested, as manufactured, in accordance with ASTM D 3273, BoardeX Exterior Sheathing scored 10, the highest level of performance for mould resistance under the ASTM D 3273 test method.

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DESCRIPTION

- **BoardeX** is an exterior sheathing board used in exterior wall, with its reinforced core against humidity and special orange fiberglass mats.
- It is used as backerboard beneath all kinds of claddings (including metal claddings, PVC, wood sidings and decorative brick claddings).
- **BoardeX** is used for all kind of soffit applications.
- **BoardeX** is indispensable for interior wet areas.
- In areas that stipulates the sheathing of exterior façades with noncombustible materials in accordance with the fire regulation in force, it facilitates the design.
- **BoardeX**'s dimensions are %100 match with **COREX** system sizes and they allow to work on 40 cm and 60 cm axes.
- In the case that exterior walls to be made with **BoardeX** exterior façade systems, provide upper values for energy performance class of exterior wall.
- **BoardeX** is the first exterior sheathing board of Europe and Turkey that contains gypsum following USA.

WHERE TO USE

On exterior wall systems.

- Under all kinds of cladding (including metal, PVC, wood and decorative brick cladding)
- On rainscreen systems.
- In wet areas.
- For all kind of soffit applications.

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Our company reserves the right to modify the product specification should this be necessary.

kiwa certified
Kalite Yönetim Sistemi Quality Management System ISO 9001:2015 YS-4833-3209
Çevre Yönetim Sistemi Environmental Management System ISO 14001:2015 YS-328F-F6E5

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BOARDEX

PK-E01.99

boardeX exterior sheathing

Exterior Sheathing

PROPERTIES

- **BoardeX**, with its fibreglass mat coating and a fully integrated core, is made of high strength boards.
- **BoardeX** prevents any growth of bacteria or mould thanks to its specially developed core. Any formation of mould or fungus is prevented, whether from condensation or from moisture in exterior walls exposed to extreme temperature changes.
- **BoardeX** is an **A1** class non-combustible construction material. Thanks to the fibreglass matting covering each sheet and its special core components, it enhances the fire resistance of any wall that it is applied to.
- Simply by applying **PROBASE RENDER** cement-based jointing compound and basecoat, the primer coat is completed. Then a coat of **PROBASE MiNERAL** is applied to prepare the surface for painting. (*)
- The values for the flexural strength are similar in both directions, so **BoardeX** can be screwed down either horizontally or vertically.
- **BoardeX** is aesthetically pleasing as a construction material, providing solutions for rainscreen systems, both as an indispensable façade repair system.
- When the exterior walls are coated with **BoardeX**, any kind of application can be installed in the construction site's interior spaces. So, while **BoardeX** protects the materials on the site and on each of the building's floors from all weather conditions, construction work can carry on comfortably inside the building
- **BoardeX** can be applied in any kind of weather conditions, including at very low and very high temperatures.
- **BoardeX** protects the load bearing system that it is affixed to, contributing to its strength.
- **BoardeX** is light and easily handled.

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- **BoardeX** is light and easily handled.
- Much more convenient to handle than wood-based boards, cement-based boards and wood particle / cellulose reinforced cement-based boards.
- **BoardeX** provides better dimensional stability performance against surface water absorption and moisture in comparison to other boards used on exterior façades (cement-based boards, wood particle / cellulose reinforced-cement boards or others).
- With its unparalleled workability, **BoardeX** can easily be cut with a utility knife. Simply score both sides with a single blade, and snap the board. The edge will always cut cleanly.
- **BoardeX** exterior façade systems enable the design of thermal insulating walls with low heat transmission coefficients (U values) for higher insulation performance.

- *(*) Applying an alkali-resistant jointing tape, 160 g/m² alkali-resistant plaster mesh and **PROBASE RENDER** cement-based jointing compound and basecoat to the **BoardeX** surface completes the primer coat. When applying **PROBASE MiNERAL** to the basecoat and the paint that will be applied on top of this mineral plaster, consult the plaster and paint manufacturers' instructions and follow them in detail.*

BOARDEX

COMPARISON WITH OTHER EXTERIOR BOARDS

FEATURES / BENEFITS	boardeX	Cement Boards	Fibre Cement Boards
Suitable for high-moisture areas	✓	✓	✓
Superior moisture barriers	✓	X	X
Fire resistance	✓	X	X
Lightweight	✓	X	X
Dimensionally stable	✓	✓	X
Easy to cut	✓	X	X
Smooth cut edges	✓	X	X
Cut with a utility knife	✓	X	X

- **BoardeX** exterior façade systems enable exterior walls - and therefore buildings – to have the highest class "A" energy performance
- While walls created with **BoardeX** exterior façade systems provide high performance thermal insulation, they also increase the total floor area, because they enable thinner walls to be built. Thus, buildings with larger usable areas can be constructed.
- Thanks to its fibreglass matting, **BoardeX** creates a suitable base for application of cement-based mineral plaster or for fixing thermal insulation material (EPS/ XPS, rockwool etc.).
- In Exterior Insulation Finishing System in which rockwool sheathing is used, high density materials are chosen for the exterior façades. With **BoardeX** exterior façade systems, the desired thermal insulation values can be achieved for the walls using low-density mineral wools. Thus, the insulation material load of the building decreases while an improvement in thermal insulation is achieved.
- The application surface can be left open to the weather without any coating for a long period of time (up to 12 months). So, buildings that use **BoardeX** will be protected from external factors for at least that specific period of time.
- For more information about how our exterior wall solutions help create the most energy efficient passive houses, please contact our Technical Support Department.
- **BoardeX** prevents the drooping and deflection that is especially visible in soffits.
- It can be cut with standard dry-lining tools.
- **BoardeX** is resistant to wear, deflection, deterioration and other impacts that can occur during storage.

RECOMMENDATIONS

- Apply alkali-resistant jointing tape to joints in **BoardeX** using **PROBASE RENDER** (a cement-based joiinting compound and basecoat)
- Fix **BoardeX** to profiles using corrosion-resistant special self-drilling Drillex screws at maximum 20 cm apart.
- Metal stud types and distance between them should be selected according to the system.
- 'Embed 160 g/m² alkali-resistant plaster mesh into, but close to the surface of, plaster applied to **BoardeX**.
- 'Fix any insulation material (EPS/ XPS) to be applied on **BoardeX** surface to metal studs using self-drilling fixing dowels.
- Stagger the joints of **BoardeX** when applying in exterior applications

- To keep corners straight, use PVC-based corner mesh profiles.
- Do not use **BoardeX** to insulate against water.
- If **BoardeX** is used on the ceilings of wet and continuous moisture areas, such as saunas, baths, and thermal pools, measures such as strong ventilation should be taken to ensure regular drainage of water vapor in plenum.
- In the exterior walls made with **BoardeX**, the condensation analysis should be done according to the climate zone where the building is located.
- Where the night and day temperature difference is excessive, the thermal bridge should be reduced by affixing the profile polyethylene tape beneath the outwardly facing **BoardeX** surface.