

## TECHNICAL DATA SHEET

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### Wallshell T-Plank™ Panel



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## Characteristics

### Application

Wallshell T-Plank™ panel is a fiber-cement board that is simple to handle and install. It comes in several sizes and textures and it is extremely tough, flexible, water/fire/insect proof and easy to maintain. Wallshell T-Plank™ panels use overlap style for mount.

### Description

The perfect alternative to traditional wood siding, T-Plank™ panel is easy to maintain, tough, rot and fire resistant. Wallshell T-Plank™ panel is a unique fiber cement composite consisting of natural fibers bonded tightly in a high-grade silicate structure. The result is a material that is highly durable, flexible, water resistant, fire proof, resistant to insects and chemical corrosion. T-Plank™ panels are also highly workable using normal tools; in short: they can be used in all kinds of applications by architects, project developers and home owners.

## Panel

### Sizes

All measurements are in mm:

8 x 150 x 3000;

8 x 200 x 3000;

8 x 150 x 4000;

8 x 200 x 4000;

10 x 150 x 3000.

**Attention:** Wallshell T-Plank™ panel size is subject to be cut on site to meet the technical requirements.

## Panel Technical Data

Physical Properties	Standard	Average Value
Dimensional Measurements	ASTM C1186	Pass
Density	ASTM C1185	1.35±0.05g/cm <sup>3</sup>
Flexural Strength (Equilibrium Conditioning)	ASTM C1185	19.2MPa
Flexural Strength (Wet Conditioning)	ASTM C1185	8.6MPa
Modulus of Rupture(Wet)	ASTM C1185	>7MPa
Modulus of Elasticity(Wet)	ASTM C1185	7100±500MPa
Water Absorption	ASTM C1185	39.4%
Moisture Content	ASTM C1185	0.37%
Water Tightness	ASTM C1185	Pass
Length Change by Moisture Movement	ASTM C1185	-0.04%
Length Change by Water Absorption	JIS A5414	<0.2%
Thermal Conductivity	ASTM C177	0.15 W/mK
Sound Protection	ASTM E90	30-64 dB
Fire Properties	Standard	Average Value
Ignitability	BS476 Part 5	Pass
Fire Propagation Index	BS476 Part 6	I=0.1
Surface Spread of Flame	BS476 Part 7	Class 1
Fire Resistance	BS476 Part 22	30-180 mins
Smoke Developed Index	ASTM E84	0
Single Burning Item	EN 13823 : 2002	Pass
Fire Classification	EN 13501-1 : 2002	A2s1d0
Building Combustibility	CNS 6532	Non-combustible

Durability Properties	Standard	Average Value
Freeze-Thaw	ASTM C1185	Pass
Warm Water Resistance	ASTM C1185	Pass
Heat Rain Resistance	ASTM C1185	Pass
Soak Dry Resistance	BS EN 12467 : 2002	Pass

  

Properties	Requirement	Average Value
Finish Surface Acid Resistance	48 hour	No Abnormality
Finish Surface Alkali Resistance	96 hour	No Abnormality
Finish Surface Salt Resistance	500 hour	No Abnormality
Finish Surface Accelerated Aging	1000 hour	No Abnormality
Unit Weight	8 x 150 x 3000 mm	5.40 Kg
	8 x 200 x 3000 mm	7.20 Kg
	8 x 150 x 4000 mm	7.20 Kg
	8 x 200 x 4000 mm	9.60 Kg
	10 x 150 x 3000 mm	6.55 Kg

## Substrate Requirements

Structural Substrate, such as concrete share wall, or metal framed share wall that is established with vapor barrier.

## Delivery

Packaging  
 Wooden crate

## Storage

Storage Conditions  
 Dry condition

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## Special Information

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