1. Product Description

KalsiFloor is a non combustible fiber cement panel, manufactured on Hatschek machine from a precise combination of cement, silica and natural organic reinforcing fibers. During the production, the boards are cured and stabilized in an autoclave process involving high temperature and pressure control, ensuring a final product with optimum dimensional stability and exceptional mechanical properties.

2. Applications

KalsiFloor is suitable for internal intermediate or laid-on flooring applications,

a. can be directly finished with carpeting or vinyl tiles) in residential or office projects
b. can be directly finished with reinforced mortar screed/ high performance coating in industrial and heavy-duty applications

It is a superb alternative to concrete slabs by offering an incredibly lightweight solution with simple, fast and clean installation.

3. Benefits

KalsiFloor is an advanced building material, serving as the best alternative to conventional wood or other wood/ cement based products;

a. Wide variety of thicknesses and applications
b. Dimensionally stable
c. Impact resistant
d. Moist, mould and water resistant
e. Resistant to attack of termites, insects and other vermin
f. Easy to install and work with
g. Environmental-friendly, no harmful gas emission
h. Non combustible

4. Dimensions and tolerances:

Available Dimensions

Product	Thickness (mm)	Width x Length (mm)
KalsiFloor	15.0	1200 x 2400, 1220 x 2440
	18.0	1200 x 2400, 1220 x 2440, 1200 x 1500, 1200 x 1800
	20.0	1200 x 2400, 1220 x 2440, 1200 x 1800

Dimensional Tolerance

Thickness	± 10 %
Width	± 6 mm
Length	± 8 mm
Squareness of Edges	≤ 0.4 %
Straightness of Edges	≤ 0.3 %

Weight (ex-works) based on nominal density plus variation

Thickness (mm)	Weight (kg/m^2)	Weight (kg/ standard sheet)
15.0	+/- 21.30	+/- 63.5
18.0	+/- 25.56	+/- 76.1
20.0	+/- 28.40	+/- 84.6

Thicknesses, sizes, and types of the sheets which differ from those available as standard, are available subject to minimum order quantities. Please contact Etex Building Performance Indonesia for more information.

5. Technical Properties

The product has been tested based on internationally recognized standards and test methods for the fiber cement flat sheet and building material requirements such as EN 12467, AS/ NZS 2908.2 ASTM C1185, BS 476 relevant parts on material reaction to fire and EN13501 fire classification standards.

Physical and Mechanical Properties	Value	Standard
Dimensional Conformity - Thickness - Length - Width - Straightness of edges - Squareness of edges	Passed	AS/NZS 2908.2
Density (average)	> 1250 kg/m^3	AS/NZS 2908.2
Bending strength (Type A – Category 3 average) (Type B - Category 3 average)	 > 7.0 MPa > 10.0 MPa	AS/NZS 2908.2
Bending Elastic Modulus (ambient)	> 8500 MPa	AS/NZS 2908.2
Water absorption	33 ± 2 %	ASTM C1185
Moisture content	10 - 15 %	ASTM C1185
Moisture movement (Hygric) – Relative Humidity from 30% to 90%	≤ 0.05 %	EN 12467:2016
Thermal conductivity	0.25 W/mK	ASTM C518:2010
Durability (Type A Requirement)	**Value**	**Standard**
Water permeability	Passed	AS/NZS 2908.2
Warm water performance	Passed	AS/NZS 2908.2
Heat-rain performance – Category A	Passed 50 Cycles	EN 12467:2016
Soak-dry performance – Category A	Passed 50 Cycles	EN 12467:2016
Frost resistance	Passed 50 Cycles	AS/NZS 2908.2
Reaction to Fire	**Value**	**Standard**
Non Combustibility	Non Combustible	BS 476 Part 4:1970
Heat Release Smoke Production and Mass Loss	Group 1	ISO 5660 Part 1:2015
Fire Hazard Properties Ignitability Index Spread of Flame Index Heat Evolved Index Smoke Development Index	 0 0 0 1	AS 1530 Part 3:1999
Heat Emission	Pass	BS 476 Part 11:1982
Fire classification using test data from reaction to fire tests	Class A1	EN 13501-1:2007 + A1:2009

All material properties and physical performance are mean values given for information and guidance only.
If certain properties are critical for particular application, it is advisable to consult Etex Building Performance Indonesia. Etex Building Performance Indonesia reserves the right to amend this information sheet without prior notice.

6. Health and safety aspects

During the mechanical machining of panels, airborne dust which may be hazardous to health, may be released. Avoid direct contact of dust with skin and eyes as they may cause irritation.

The use of dust extraction equipment is advised. Respect regulatory occupational exposure limits for total inhalable and respirable dust.

For more information, please check the Material Safety Data Sheet before working with the product.

7. Certification

All Etex Building Performance Indonesia products are manufactured in line with the ISO standards. Etex Building Performance Indonesia manufacturing facility achieved the certificates of ISO 9001:2008, ISO 14001:2015 and OHSAS 18001:2007. These certificates can also be downloaded from www.kalsi.co.id.

----- End of Session -----

For technical assistance please contact:

Promat Australia Pty. Ltd., 1 Scotland Road, Mile End South, Adelaide, SA 5031
T +61 (8) 8352 6759 F +61 (8) 8352 1014 E PAPL.mail@etexgroup.com
www.kalsi-building-solutions.com