



PT. Etex Building Performance Indonesia

PT. Etex Building Performance Indonesia (formerly PT. Eternit Gresik) is the reference manufacturer of fiber cement building boards in Indonesia for over 40 years

PT. Etex Building Performance Indonesia was established in 1971 and started its operation in 1973. Our expertise, integrated quality system and experience for over 40 years in building materials allows PT. Etex Building Performance Indonesia to offer you the best solution for each of your dry construction projects.

PT. Etex Building Performance Indonesia aims at the highest possible customer satisfaction and disposes of state of the art technology installed at the existing site in Gresik, East Java.

The new production site in Karawang, West Java, which is planned to go on line by the end of 2015 will accommodate the latest generation European technology for the production and finishing of fiber cement boards and will set entirely new quality standards for professional building boards.

PT. Etex Building Performance Indonesia products stand for health, durability and quality. Our products are developed and known for their straightness, flexibility and easiness of installation.

KALSI and ETER products are produced without asbestos fibers. PT. Etex Building Performance Indonesia is the pioneer in Indonesia for asbestos free building board manufacturing technology.

You can trust our products, they can be cut and fitted to size without any hazard for your personal health or the occupants of the buildings in which KALSI and ETER products are installed. Our products are trusted and appreciated by building material professionals all over Indonesia and South East Asia.

ETER products are large roofing elements for houseing, industry, and agriculture. KALSI branded products are applied for ceilings, partitions, cladding, listplank, and flooring. Head office and factory are located in Gresik – East Java, close to Surabaya, East Java's capital. Sales activities in Indonesia are run by means of a nation wide reliable distribution network. PT. Etex Building Performance Indonesia also exports its asbestos free boards throughout South East Asia.



formerly **Eternit Gresik**





Eternit is a part of Etex, a Belgian industrial group that manufactures and markets high quality building materials and systems. Headquartered in Brussels, Etex currently operates 123 factories and 116 subsidiaries across 44 countries, employs more than 18,000 people and is one of the largest fibre cement producers in the world.

Through its subsidiaries, Etex offers an extensive range of products: small and large roofing materials, cladding and building boards, passive fire protection systems and ceramic tiles.

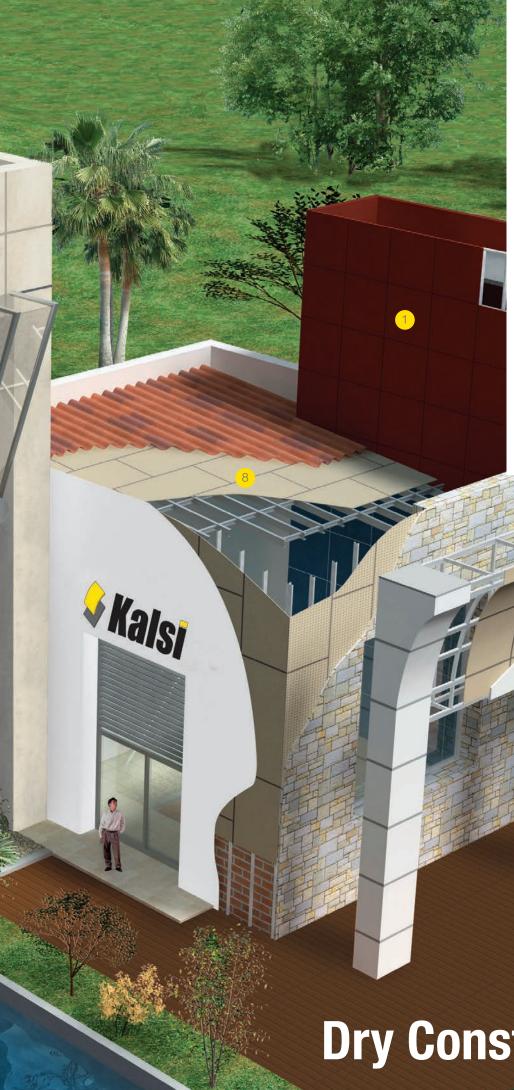
Etex is a professional, reliable partner for all kinds of construction projects.

Established in 1905, Etex consolidates its unique global presence through strong and proven expertise, a resource bank of technical knowledge, innovative corporate culture and deep understanding of local needs and requirements in all markets where it operates.











- 1. Cladding
- 2. Plank
- 3. Partition
- 4. Ceiling
- 5. Wet area
- 6. Floor
- 7. Special applications
- 8. Roof underlay

Dry Construction





Dry construction is building technology that utilises composite boards installed over metal or timber subconstruction. It is often used to build exterior walls (claddings), interior walls (partitions), ceilings, floors and some other applications.

The cost effectiveness, strength, durability, design flexibility, adaptability, recyclability and sustainability are just some of the many advantages of dry construction over brick, block and wood. It not only makes good economic sense to choose the dry construction method, but good environmental sense, too... because CO2 emissions are minimised. Dry construction buildings are easier to renovate than brick, block and wood.

"Dry construction is the perfect replacement for wood, it helps to conserve natural forests"

Main Benefits Of Dry Construction



The various components -- boards, studs and accessories -- assembled to create Eternit dry construction systems are easily dismantled at the end of the building's lifecycle. They are 100% recyclable and recoverable.





"Cost effective,

Benefits

durable and highly

resistant to moist,

water and impacts

Resistant to the attack of

termites, insects and most

Kalsi[®] is the brand name of our fibre cement boards and planks.

Manufactured from a precise combination of cement, silica and cellulose, the boards are cured and stabilised in an autoclave -- a special process involving steam, high temperatures and pressure -that ensures optimum dimensional stability and mechanical resistance.

Kalsi® fibre cement boards and planks are durable and highly resistant to most environmental conditions. They are the best alternative to wood, concrete and masonry constructions.

Kalsi® fibre cement boards and planks are manufactured in modern production facilities around the Asia Pacific region. The company's factories meet all modern benchmarks for quality and environmental impact.

Physical and mechanical properties

	Value	Standard		other vermin
Dimensional conformity Thickness Length Width Straightness of edges 	Level II (Pass)	ISO 8336: 2009		Moist,mould and water resistant
 Squareness of edges 				Wide variety of
Density*	≥1200 kg/m³	ISO 8336: 2009		thicknesses and
Moisture content	≤15%	ASTM C1185		applications
Water absorption	≤31%	ASTM C1186		Impact resistant
Moisture movement	≤0.04%	ISO 8336: 2009		
Water permeability	Pass	ISO 8336: 2009		Dimensionally stable
Thermal conductivity	0.25 W/mK	ISO 8336: 2009		
Modulus of rupture Category A (saturated condition) Category C (ambient condition)	≥7MPa ≥10MPa	ISO 8336: 2009		Easy to work and install
			_	

Durability

Warm water performance	Pass	ISO 8336: 2009
Soak-dry performance	Pass	ISO 8336: 2009
Freeze-thaw performance (category A)	Pass	ISO 8336: 2009
Heat-rain performance (category A)	Pass	ISO 8336: 2009



Reaction to fire

Non-combustibility	Non-combustible	BS 476 Part 4: 1970
Surface spread of flame	Class 1	BS 476 Part 7: 1997
Fire propagation index	I = 1.6 i(1) = 1.0 i(2) = 0.3 i(3) = 0.3	BS 476 Part 6: 1989





For ease of installation, and to improve functionality and aesthetic performance, **Kalsi*** fibre cement boards and planks are provided in several surface and edge finishes.

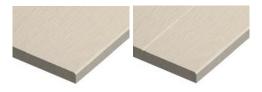
Surface finishes

Kalsi* fibre cement boards are available with different surface finishing to enhance their overall performance, installation process and aesthetic appearance.



Standard:

The standard surface of **Kalsi*** fibre cement boards is smooth and off-white in colour, making it appropriate for typical applications. Standard finish is recommended for textured coatings.



Brushed:

The standard surface is brushed with a special machine to create delicate wood grain lines over the exposed surface of the boards.



Top sanded:

The standard surface is finely sanded to provide a premium finish with an improved upper surface, ideal for smooth paints and areas subject to the glare of lighting hot spots.



Wood grain:

The wooden pattern comes in attractive textures that can be enhanced by a wide range of modern architectural finishes.

Edge finishes

Kalsi® fibre cement boards come with squared or recessed edges to achieve express of flush joint solutions.



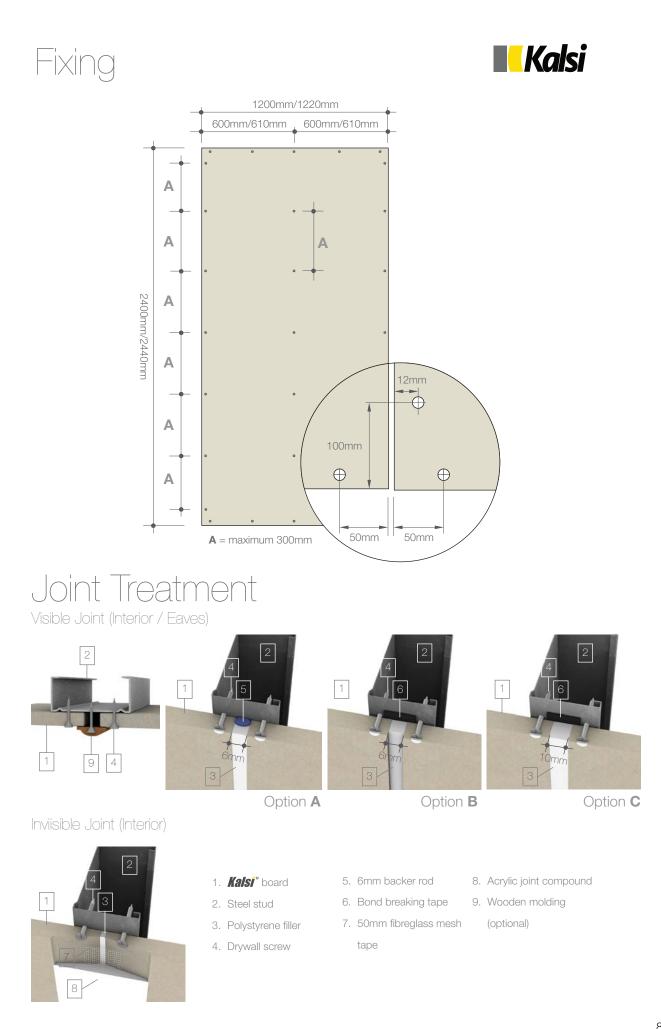
Square cut:

Standard for board edges which are cut at 90°. Ideal in expressed joint cladding.



Bevelled edges:

Boards bevelled on two or four edges ease joint finish, provide a smooth and flat surface.











KalsiPlank



KalsiDeck





KalsiPlank is fibre cement siding designed for residential cladding. Easy to cut, nail and drill, Kalsiplank is a simple, pragmatic solution to most of the problems associated with timber.

KalsiPlank comes in four attractive surfaces finishes: Smooth, Jati, Meranti and Cedar.

There are two options for overlapping the planks, Overlapped Siding and Interlocking Siding.

KalsiPlank Overlapped Siding Dimensions

	Thickness (mm)	Width (mm)	Length (mm)	Weight (kg)
KalsiPlinth 8	8	100	3000	3.4
KalsiPlank 8	8	200	3000	7.01
KalsiPlank 8	8	300	3000	10.51
KalsiPlank 9	9	200	4000	11.2
KabiDlank 9 lati	8	200	3000	7.01
KalsiPlank 8 - Jati	8	300	3000	10.51
KalsiPlank 9- Cedar	9	200	4000	11.2
KalsiPlank 12 - Fascia	12	150	3000	7.9

KalsiPlank Interlocking Siding Dimensions

	Thickness	Width	Length	Weight
	(mm)	(mm)	(mm)	(kg)
KalsiPlank 10-1L KalsiPlank 10-Jati-1L KalsiPlank 10-Meranti-1L	10	200	3000	8.75







Surface finishes



Wood grain

Smooth



Meranti

Edge finishes





Square Edges

Interlocking Edges



Fascia Edges







- 4. Mansory
- 5. Anchor bolt

mbrane 13. Mould corner

9. Vapour permeable membrane (lightweight cladding)





KalsiDeck is a wood replacement product designed for interior and exterior decking and staircase application.

KalsiDeck is available in two different designs:

KalsiDeck 20-Meranti KalsiDeck 20-Meranti-VL



KalsiDeck Standard Dimensions

	Thickness	Width	Length	Weight
	(mm)	(mm)	(mm)	(kg)
Kalsi <mark>Deck</mark> 20-Meranti Kalsi <mark>Deck</mark> 20-Meranti-VL	20	200	2400	14.5

Surface finishes



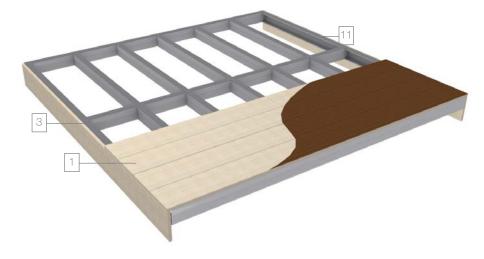
Meranti

Meranti-VL

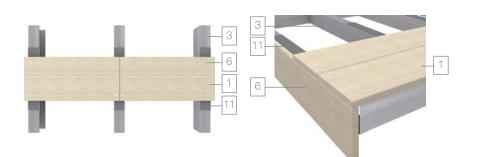






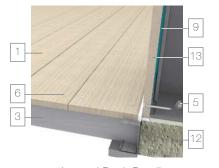


General View



Jointing Detail





Internal Deck Detail

- 1. KalsiDeck
- 2. KalsiPlank
- 3. Steel framing
- 4. Mansory



External Deck Detail

- 5. Anchor bolt
- 6. Screw
- 7. Bottom track
- 8. Starter pack
- 9. Vapour permeable membrane



Staircase Detail

- 10. Polyurethane sealant
- 11. Rubber/foam absorber
- 12. Concrete floor
- 13. Wall cladding
- 14. Metal bracket



Kalsi Board Range

KalsiBoard Ling

KalsiBoard Ling is a fibre cement board especially designed for ceiling application in both dry and wet areas. It's a lightweight but durable board that offers exceptional dimensional stability and years of functional service.

KalsiBoard Ling in thicknesses of 3mm to 4.5mm must be nailed to timber framing. The joints between the boards are designed to remain open and can be finished in conjunction with wooden joiners etc or moldings.

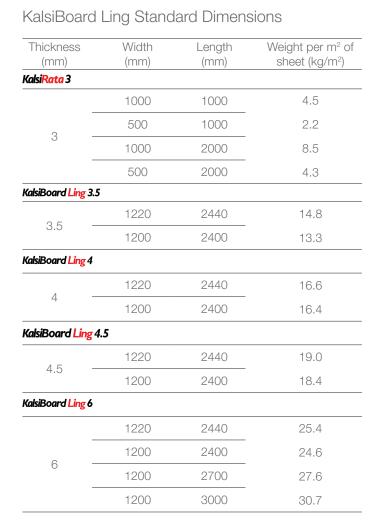
KalsiBoard Ling in thickness of 6mm can be nailed onto timber structure or screwed over a steel frame. Joints between the boards can be flushed or left open.

KalsiBoard Ling can also be used as a ceiling tiles. The extrasmooth surface ready to receive a wide range of finishes.



Kalsi

Surface finishes



* Other dimensions are available upon request. The properties in above table are mean values provided for informational purposes only

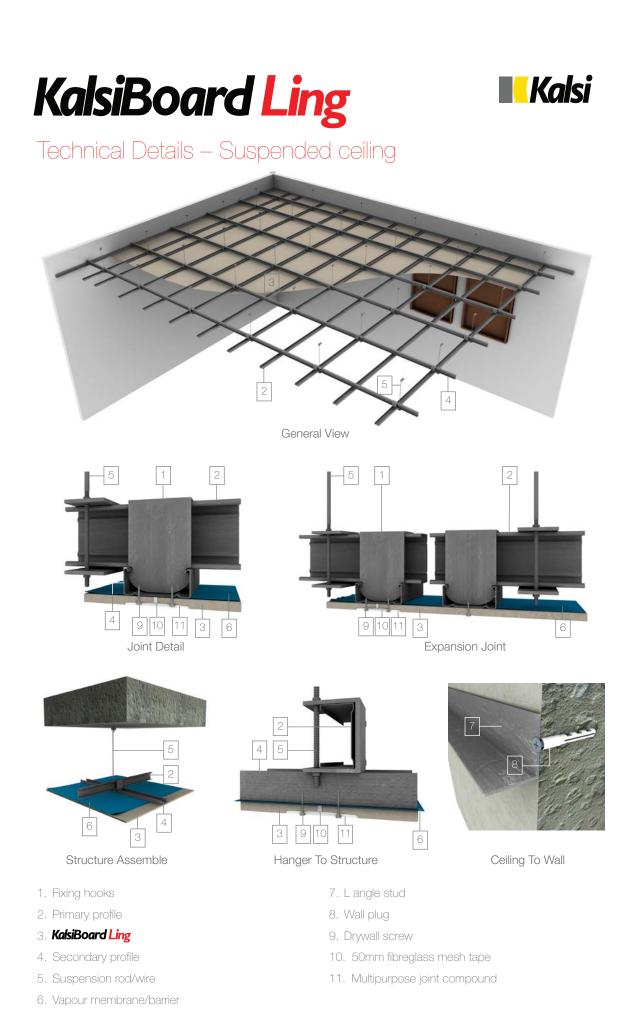
Standard Top Sanded

Edge finishes





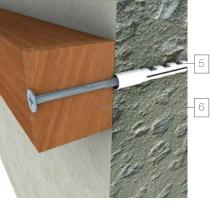
2 Bevelled Edges







General View 4 1 2 - 3 2 4 2 1 Hanger Detail Structure Assemble



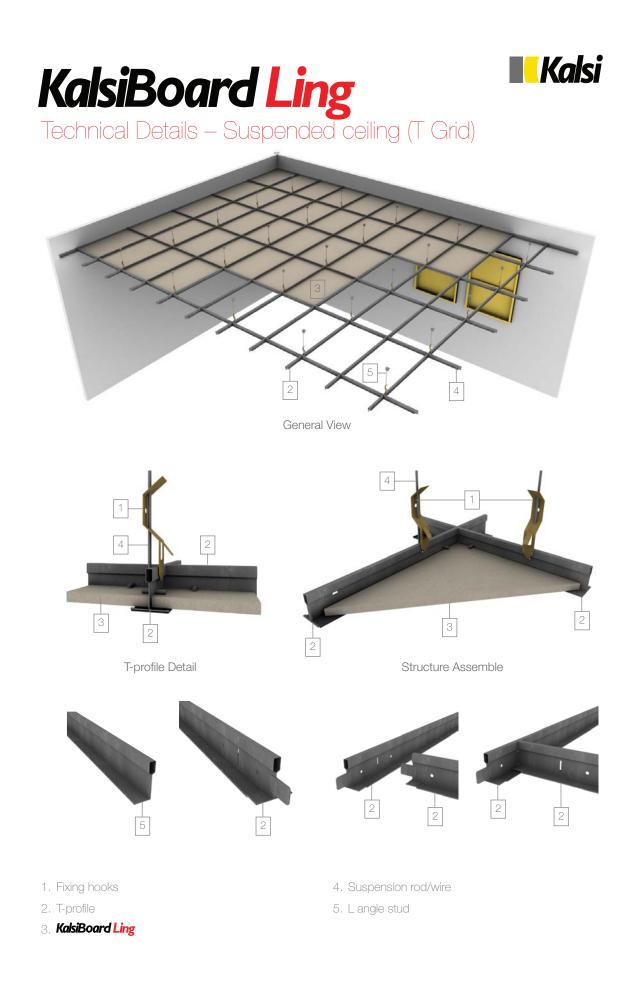
Ceiling To Wall Detail

- 1.
- 2. Timber batten 40mm x 60mm
- 3. Metal bracket
- 4. Vapour membrane/barrier



Jointing Detail

- 5. Wall plug
- 6. Wood molding
- 7. Nail

















KalsiPart is the ideal solution for the most demanding internal wall applications subject to high traffic or humid conditions:

KalsiPart provides excellent acoustic insulation. The inclusion of mineral wool in the wall cavity improves both thermal and acoustic performance.

All kinds of conduit, wiring, pipe and other services are easily installed in the cavity of every KalsiPart system.

KalsiPart Standard Dimensions

Thickness (mm)	Width (mm)	Length (mm)	Weight per m ² of sheet (kg/m ²)
KalsiPart 8			
	1220	2440	33.8
-	1200	2400	32.7
8 -	1200	2700	36.8
-	1200	3000	40.9
-			



Surface finishes



* Other dimensions are available upon request. The properties in above table are mean values provided for informational purposes only



KalsiQua 8 is an 8mm thick fiber cement board, 100% asbestos free product, consisting of the following: cement, selected mineral fillers, organic reinforcing fibers, and functional additives that are specifically designed for wet area applications. KalsiQua 8 acts as a high performance wet area application board, and requires no additional waterproofing.

KalsiQua Standard Dimensions

Thickness (mm)	Width (mm)	Length (mm)	Weight per m ² of sheet (kg/m ²)
KalsiQua 8			
8	1200	240	32.7

* Other dimensions are available upon request. The properties in above table are mean values provided for informational purposes only

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Edge finishes



Square Edges 4 Be





2 Bevelled Edges





Technical Details



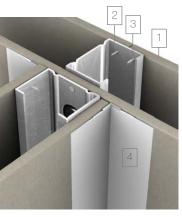
General View

Ceramic Tiling

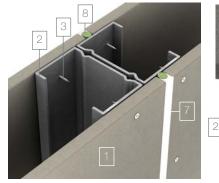


Conduit And Service Installation

- 3
 - L Corner Detail



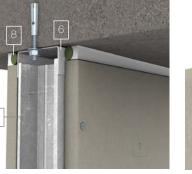
T Corner Detail



Expansion Joint

1. KalsiPart

- 2. Steel stud
- 3. Drywall screw N°6 x 1"
- 4. Multipurpose joint compound
- 5. Corner bead



Deflection Track System

- 6. Horizontal channel
- 7. Polystyrene filler
- 8. 6mm backer rod
- 9. 50mm fibreglass mesh tape



2

1





Project Reference









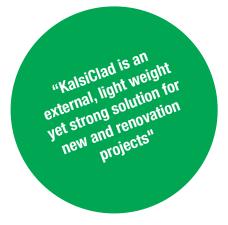
KalsiClad is a board specifically designed for external wall cladding. Its light weight and versatility are the best features for new or renovation projects which demand design flexibility, and modern, contemporary solutions.

KalsiClad can be finished with expressed or flushed joints.

KalsiClad standard Dimensions

KalsiClad can be coated with an exterior acrylic or texture coating for monolitic render.





Surface finishes

Thickness (mm)	Width (mm)	Length (mm)	Weight per m ² of sheet (kg/m ²)
KalsiClad 10			
	1200	2440	42.3
10	1200	2400	40.9
	1220	2700	51.1
KalsiClad 12			
	1220	2440	50.7
12 —	1200	2400	49.0
	1200	2700	55.2
	1220	3000	61.4

* Other dimensions are available upon request. The properties in above table are mean values provided for informational purposes only





Standard

Top Sanded

Edge finishes



Square Edges

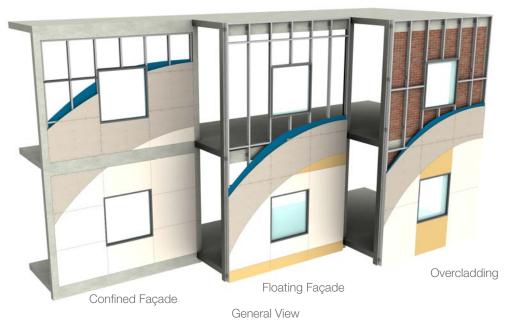
4 Bevelled Edges



2 Bevelled Edges

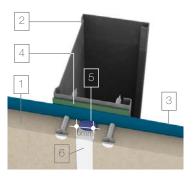




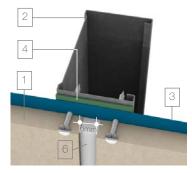




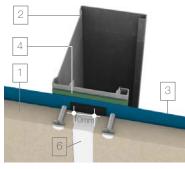
Bracket To Slab Detail



6mm Joint Treatment (Option A)



6mm Joint Treatment (Option B)



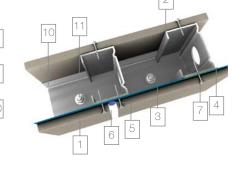
10mm Joint Treatment

- 1. KalsiClad
- 2. Steel stud
- 3. Vapour membrane/barrier
- 4. Thermostop*



Construction To Bottom Detail

- 5. 6mm backer rod
- 6. Polystyrene filler
- 7. Drywall screw
- 8. Bond breaker film



Expansion Joint

- 9. Metal bracket
- 10. Steel channel
- 11. Anchor bolt
- 12. Flashing

*If required by local building codes and/or local atmospheric conditions













KalsiFloor is a strong fibre cement board suitable for internal flooring applications. KalsiFloor can be directly finished (with carpet or vinyl tiles) in residential projects or offices, or with reinforced mortar screed in industrial and heavy duty applications.

KalsiFloor is a superb alternative to concrete slabs because it is an incredible lightweight solution.

KalsiFloor is fast and clean to install.





Surface finishes



Standard





Square Edges

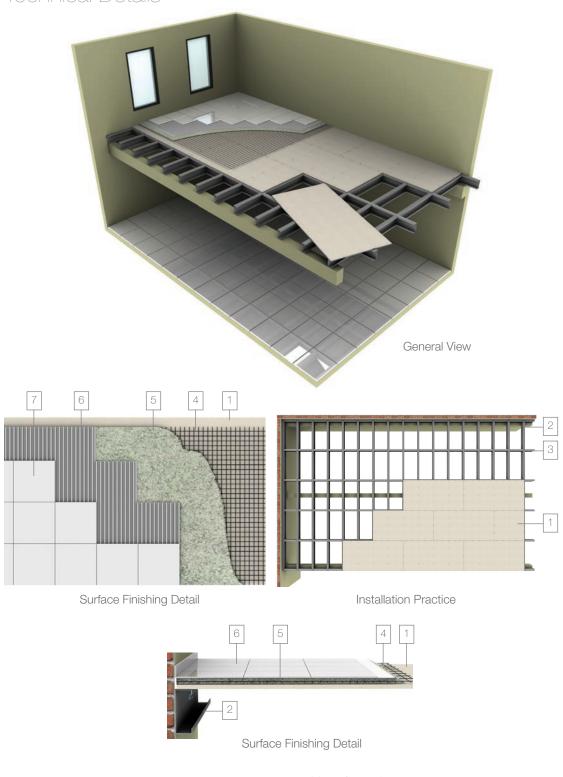
KalsiFloor Standard Dimensions

Thickness (mm)	Width (mm)	Length (mm)	Weight per m ² of sheet (kg/m ²)
KalsiFloor 20			
20	1200	2400	81.8

* Other dimensions are available upon request. The properties in above table are mean values provided for informational purposes only







- ¹ KalsiFloor 20
- 2. Steel purlin
- 3. Steel bracer
- 4. Steel reinforcement

- 5. Mortar/screed
- 6. Tile adhesive
- 7. Finishing (ceramic tile, stone)





Project Reference



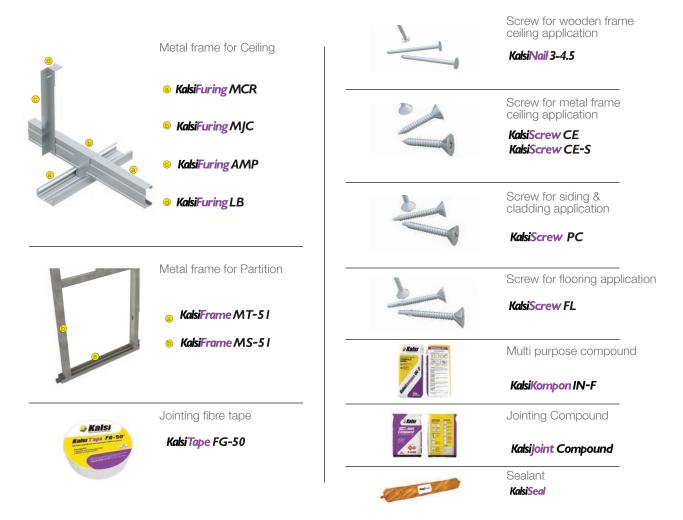




Accessories



For the best result always using Kalsi® fibre cement accessories



Easy workability is another feature of Kalsi® fibre cement products. They are normally installed with conventional tools.





formerly **Eternit Gresik**

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Important note

Some of the project reference images in this document are not necessarily fabricated from systems outlined in this specific publication. They are included for the intention of indicating to the reader a generalised look or appearance typical of products and systems under the Kalsi®/ KalsiBoard® brand and brand names. Most of the projects here correspond to structures using fibre cement boards manufactured by Etex Group network companies in several locations worldwide. The sole purpose of such images in this publication is to illustrate the versatility of products and systems from Etex Building Performance Indonesia, and the proven international expertise of the Etex Group.

Your local supplier