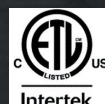


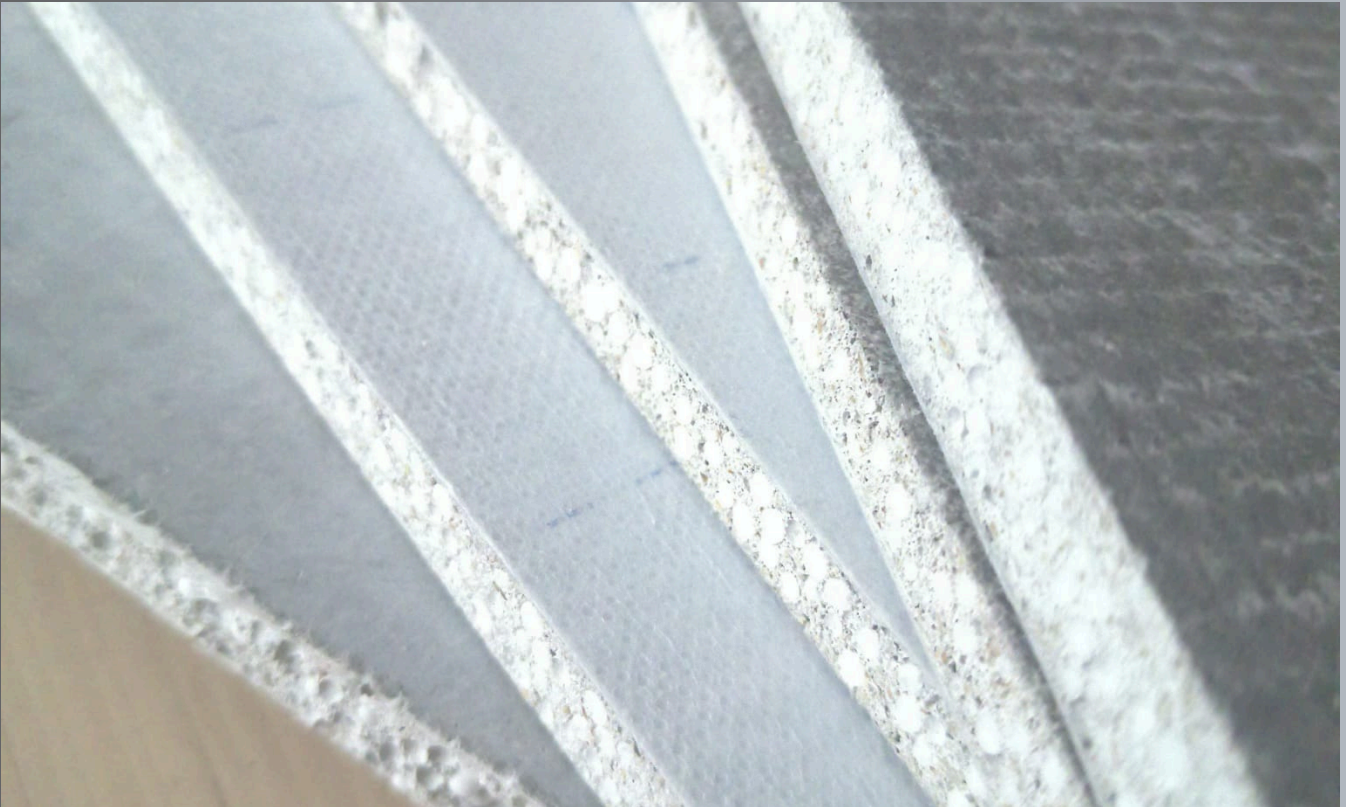
**PLANX OY**

**CEMENT BOARD  
FOR WALL & FLOOR...**

**SPECIALLY DESIGNED FOR HUMID AREAS**







## About Us

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### PLANX OY

Your Trusted Global Partner In High-Performance, Lightweight Cement Boards. We Support Your Projects With Innovative Materials Designed To Build Smarter, Faster, And More Sustainably.





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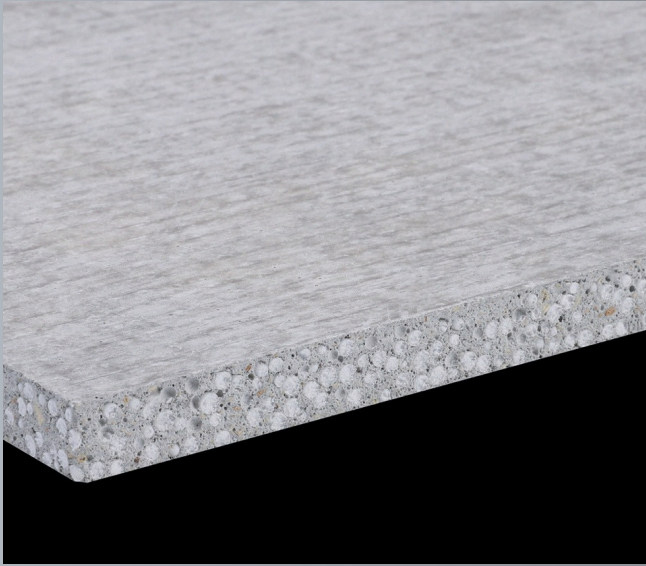




## Technical Data

Size	1200*2000mm/1200*2400mm/1220*2440mm (customizable)
Tolerance on length and width (EN12467:2012 Clause 5.3.2)	level 1
Tolerance on shape (EN12467:2012 Clause 5.3.5.2)	level 1
Squareness of edges (EN12467:2012 Clause 5.3.5)	level 1
Thickness	3-30mm
Classification (EN12467:2012 Clause 5.2)	Category A
Moisture movement (EN12467:2012 Clause 5.4.3 & Clause 7.3.7 & Annex C)	≤0.12%
Moisture content	≤10%
Water absorption	≤20%
Release of dangerous substances (EN12467:2012), it does NOT contain any toxic ingredients	NO Asbestos
	NO Formaldehyde
	NO Ammonia Incombustibility
Fire Resistance (EN12467:2012 Clause 5.6.1 & Clause 7.5)	A1 Class (EN13501-1)
Bending Strength (EN12467:2012 Clause 5.4.4 & Clause 7.3.2)	≥6.2MPa
Water impermeability (EN12467:2012 Clause 5.4.5 & Clause 7.3.3)	There is no instance any formation of drops of water.
Freeze-thaw cycle (EN12467:2012 Clause 5.5.2 & Clause 7.4.1)	100 cycles
Heat-rain (EN12467:2012 Clause 5.5.3 & Clause 7.4.2)	50 cycles
Soak-dry (EN12467:2012 Clause 5.5.5 & Clause 7.3.6)	50 cycles
Soundproofing (GBJ75-84)	≥41db
Warm water (EN12467:2012 Clause 5.5.4 & Clause 7.3.5)	56 days
Reaction to fire	Class A1
Nail holding power	20-60N/mm





## Cement boards Products



Moisture Resistance



Fire Resistance



Mold Resistance



Termite Resistance



Lightweight



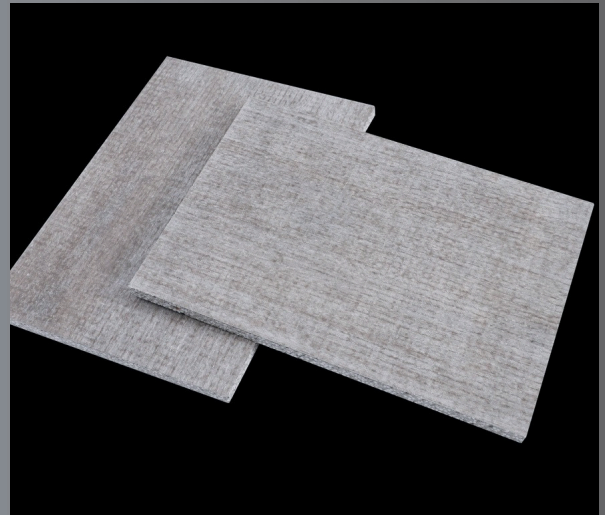
Easy to Install

### PLANX Cement Board

Suitable for use in many interior and exterior applications, even in challenging conditions.

### PLANX Cement Light

**50%** less weight than traditional cement board on the market.



## Features

- **Fire Resistant:** A1 Non-combustible
- **Mold/Fungus Resistant:** Does not support mold/fungus growth
- **Moisture Resistant:** Resistant to weather, freeze/thaw & standing water
- **Termite/Vermin Resistant:** Provides no food value to insects/vermin
- **Dimensionally Stable:** Exhibits excellent resistance to dimensional changes when exposed to variations in temperature & moisture
- **Environmentally Friendly:** no formaldehyde or asbestos
- **Workability:** Installs quickly, easy cutting and fastening
- **Durable:** Flexible and strong, creative design possibilities, bending radius of  $\geq 1$  m





Size	Load Qty / 20GP	Weight per board
1200x2400x3mm	1670	6.9kg
1200x2400x6mm	1112	13.8kg
1200x2400x8mm	832	18.4kg
1200x2400x9mm	740	20.7kg
1200x2400x10mm	664	23.0kg
1200x2400x12mm	556	27.6kg
1200x2400x15mm	444	34.5kg
1200x2400x16mm	416	36.9kg
1200x2400x18mm	368	41.5kg
1200x2400x20mm	332	46.1kg
1200x2400x22mm	292	50.7kg
1200x2400x25mm	264	57.6kg

## Size, Weight & Packaging



## Cement boards Advantages

The ideal substrate engineered to resist prolonged moisture exposure for both interior and exterior applications.

### LIGHT-WEIGHT AND HIGH STRENGTH

- Up to 50% lighter than conventional cement boards.
- Stronger performance with reduced handling effort.

### EASY-CUT TECHNOLOGY

- Simple to cut and install with standard tools.
- Speeds up construction and minimizes job-site waste

### DURABILITY YOU CAN TRUST

- High impact resistance.
- Maintains dimensional stability under tough conditions.

### LOWEST WATER ABSORPTION

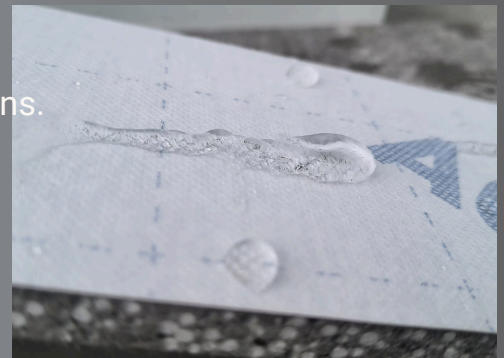
- Water absorption  $\leq 20\%$ .
- Ideal for high-humidity or wet-area applications.

### BEST-IN-CLASS WARRANTY

- 30-year limited warranty: Interior applications
- 15-year limited warranty: Exterior applications

### AVAILABLE THICKNESS

- From 3mm to 30mm



Physical feature benefits	TSM cement boards	Other cement boards	Fiber cement boards
Low-weightglass-mesh cementboard	✓	×	×
Reinforced edge	✓	×	×
Fasten near edge with no breakout	✓	×	×
Highest damage Resistance from handling	✓	×	×
Cleanest to score and snap	✓	×	×
Lowest water absorption	✓	×	×
Cut with utility knife VS. Power tools	✓	✓	×
Standard fasteners countersink into board	✓	✓	×
Can be used in both residential and commercial steam rooms and saunas	✓	✓	×
Inorganic VS. Organic Core	✓	✓	×

Solution For Any Applications



Product	Walls	Floors	Roofs	Ceilings	Counter tops	SIP panel
6mm TSM	×	✓	✓	✓	✓	✓
8mm TSM	×	✓	✓	✓	✓	✓
10mm TSM	✓	✓	✓	✓	✓	✓
12mm TSM	✓	✓	✓	×	✓	✓
16mm TSM	✓	✓	✓	×	✓	✓
18mm TSM	✓	✓	✓	×	✓	×
20mm TSM	✓	✓	✓	×	✓	×
12mm TSM light	✓	×	×	✓	×	✓





## Cement board Applications

PLANX Cement Board is the versatile, high-performance choice for diverse construction and renovation projects. It's the best base engineered for every needs.

### Interior Applications Exterior Applications

Interior Walls

Sub-floors

Ceilings

Countertops

Fireproof Partition Walls

Bathrooms

Exterior Walls

Roof Boards

Outdoor Kitchen

Balcony

Decks

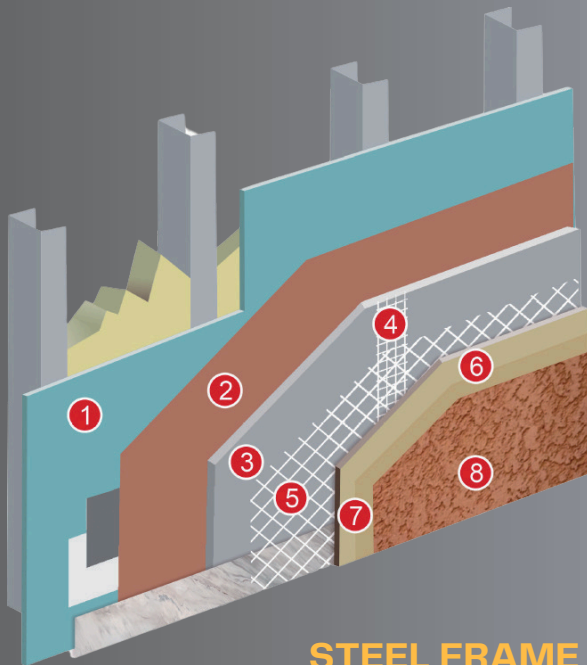


## CEMENT BOARD STUCCO WALL SYSTEMS (CBSS)

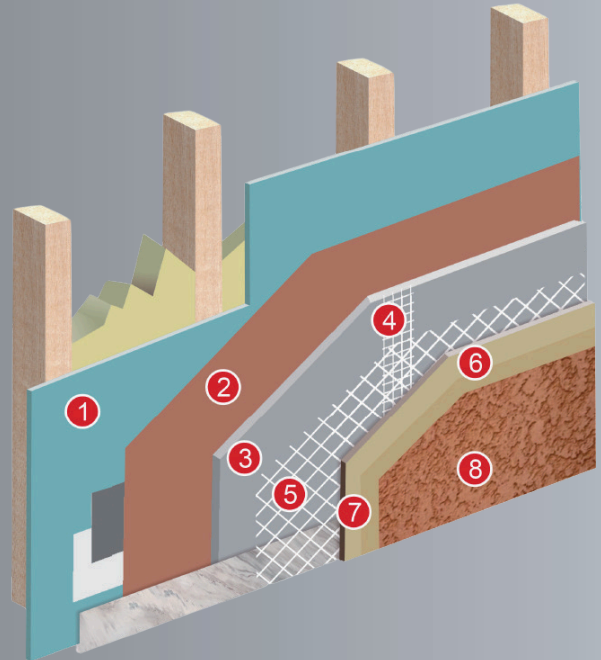
For use in residential and low-rise commercial applications, CBSS provides a drainage system to help prevent water from penetrating behind cladding in framed construction.

### BENEFITS INCLUDE

- Appropriate for all climates and resists the growth of mold and mildew
- Extremely durable with increased resistance to impact and inclement weather
- Acrylic polymers provide more resistance to fading, cracking and peeling
- Engineered system that allows a faster installation while providing superior quality control (manufactured product that must comply with ASTM product specifications)
- Provides a 15-year exterior warranty – the industry's best



**STEEL FRAME  
CEMENT BOARD STUCCO**



**WOOD FRAME  
CEMENT BOARD STUCCO**

1. Sheathing
2. Weather Resistant Barrier
3. PLANX Cement Board
4. Mesh Tape
5. Fiberglass Mesh
6. Base Coat
7. Primer
8. Finish Coat

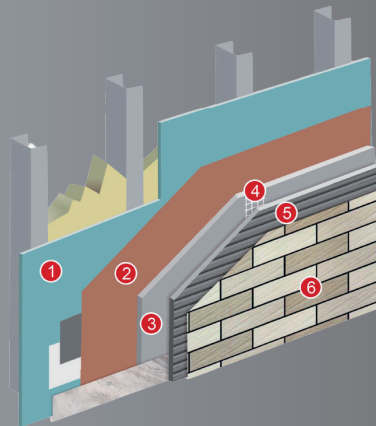


## CEMENT BOARD MASONRY VENEER WALL SYSTEMS (CBMV)

For use in residential and low-rise commercial applications, CBMV offers a complete, engineered solution for installation of adhered veneers. It provides the ability to incorporate an effective water-management system for a variety of building exteriors with manufactured or natural stone and thin brick veneers.

### BENEFITS INCLUDE

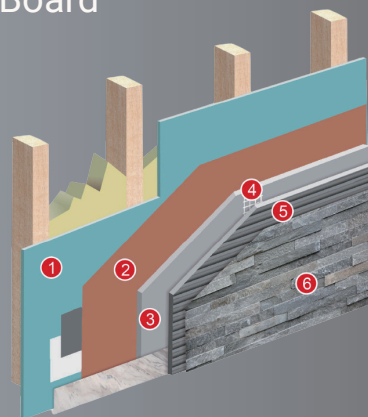
- Engineered system that allows a faster installation while providing superior quality control
- Increased performance by utilizing modified adhesive mortars (designed for hanging materials rather than type S&N mortars developed for stacking materials)
- Extremely durable with increased resistance to impact and inclement weather
- Easily allows for the inclusion of continuous installation into the assembly
- Appropriate for all climates, and resists the growth of mold and mildew
- Speed up your schedule – faster, easier and cleaner than traditional metal lath/scratch-coat method
- TSM is suitable for use in combustible and noncombustible construction
- 



**STEEL FRAME  
Cement Board  
Masonry Veneer –  
Thin Brick**

1. Sheathing
2. Weather Resistant Barrier
3. PLANX Cement Board

4. Mesh Tape
5. Mortar
6. Thin Brick Veneer



**WOOD FRAME  
Cement Board  
Masonry Veneer  
– Stone**

1. Sheathing
2. Weather Resistant Barrier
3. PLANX Cement Board

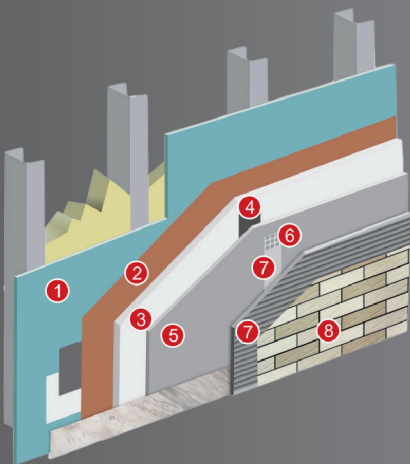
4. Mesh Tape
5. Mortar
6. Thin Stone Veneer

## CONTINUOUS INSULATION

**Water Barrier:** While PLANX is unaffected by moisture, a water/air resistive barrier (WRB) must be installed to protect the cavity. The type and specific placement or location of the water barrier will vary based on local building codes and/or manufacturers' warranties. Consult the WRB manufacturer's recommendations for specific installation guide-lines.

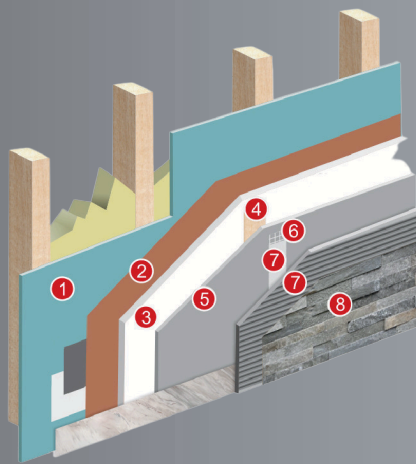
### BENEFITS INCLUDE

- Engineered system that allows a faster installation while providing superior quality control
- Helps mitigate the loss of heat/air conditioning by insulating the studs (reduces thermal bridging)
- Helps eliminate air and moisture leakage
- Appropriate for all climates, resists the growth of mold and mildew, and offers fire protection
- Provides added dimensional stability
- Helps prevent the water/air resistive barrier (WRB) from being compromised as assembly components shift
- Provides a 15-year exterior warranty – the industry's best



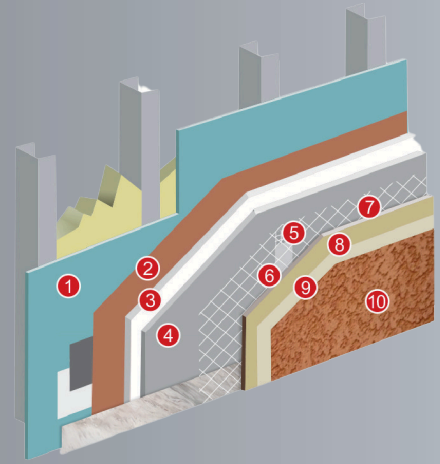
#### Continuous Insulation– Z Furring

1. Sheathing
2. Weather Resistant Barrier
3. Insulation
4. Z-Furring
5. PLANX Cement Board
6. Mesh Tape
7. Mortar
8. Thin Brick Veneer



#### Continuous Insulation– Batten Strip

1. Sheathing
2. Weather Resistant Barrier
3. Insulation
5. PLANX Cement Board
4. Batten Strip
6. Mesh Tape
7. Mortar
8. Thin Stone Veneer



#### Continuous Insulation– Specialty Fastener

- |                              |                 |
|------------------------------|-----------------|
| 1. Sheathing                 | 6. Base Coat    |
| 2. Weather Resistant Barrier | 7. Mesh         |
| 3. Insulation                | 8. Base Coat    |
| 4. PLANX Cement Board        | 9. Primer       |
| 5. Mesh Tape                 | 10. Finish Coat |





## INSTALLATION GUIDE

### INTERIOR APPLICATIONS

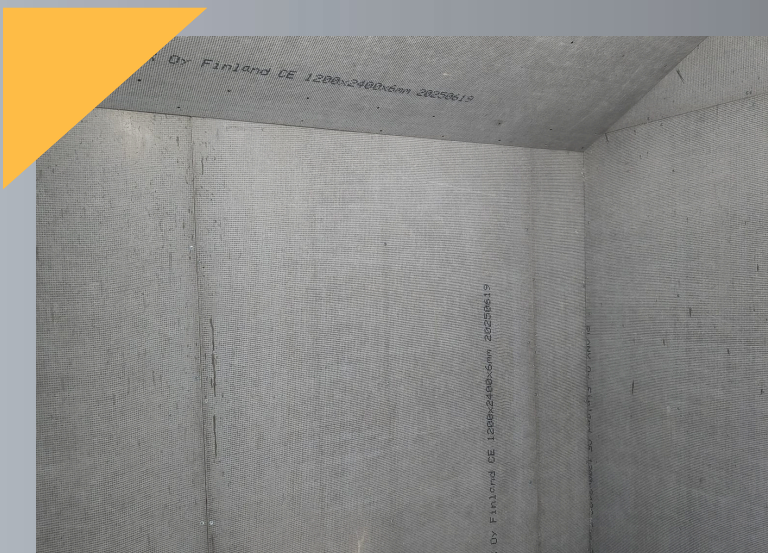
An ideal substrate for interior applications, such as:

- Shower and tub enclosures
- Garden/whirlpool tubs
- Countertops
- Backsplashes
- Steamrooms and saunas
- Swimming pool and whirlpool decks and enclosures
- Floor underlayment
- Entryways
- Kitchens
- Bathrooms
- Foyers
- Laundry rooms

## WALLS AND CEILINGS

**PLANX Cement Board:** Apply with ends and edges closely butted but not forced together. Stagger ends joints in successive courses. Drive fasteners into field of cement board first, working toward ends and edges. Space fasteners for walls and ceilings with perimeter fasteners at least 3/8" (9.5mm) and less than 5/8" (15.9mm) from ends and edges. Ensure cement board is tight to framing.

**Joint Reinforcement:** Trowel bonding material to completely fill the tapered recessed board joints and gaps between each panel. For all joints, immediately embed alkali-resistant fiberglass mesh tape fully into applied bonding material and allow it to cure. For outside corners, wide mesh tape is recommended. Same bonding material should be applied to corners, control joints, trims and other accessories. Feather bonding material over fasteners to fully conceal.





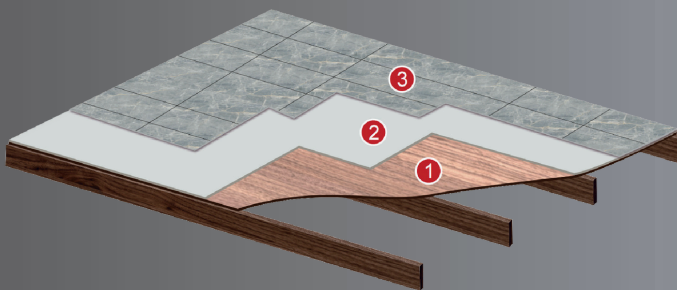
## SHOWER INSTALLATION

- 1.Cementboard
- 2.Waterproof Membrane
- 3.Mortar
- 4.Mesh tape
5. Tile

## FLOORS AND COUNTERTOPS

**Subfloor or Base:** The joist and subfloor assembly must meet L/360 as well as the appropriate code tables for live and dead loads.

**Underlayment:** Using a square-notched trowel, apply a setting bed of polymer-modified mortar (or thin-set mortar) to the subfloor or counter base. Immediately laminate cement board to subfloor or base leaving a space between boards at all joints and corners. Leave a gap along walls. Stagger all joints so that they do not line up with underlying substrate joints. Fasten cement board throughout board field and around all edges. While setting bed mortar is still workable, around perimeter of each board, locate fasteners from corners and not less than 3/8" (9.53mm) from the edges. Fill all joints solid with bonding material. On non-tapered joints such as butt ends, apply a thick coat over the entire joint. For all joints, immediately embed fiberglass mesh tape fully into applied bonding material, ensure that tape is centered over joint. Apply bonding material over fasteners to fully conceal. Remove all excess bonding material and allow to cure.



## FLOOR UNDERLAYMENT

1. Subfloor
2. PLANX cement board
3. Tile



## COUNTERTOP INSTALLATION

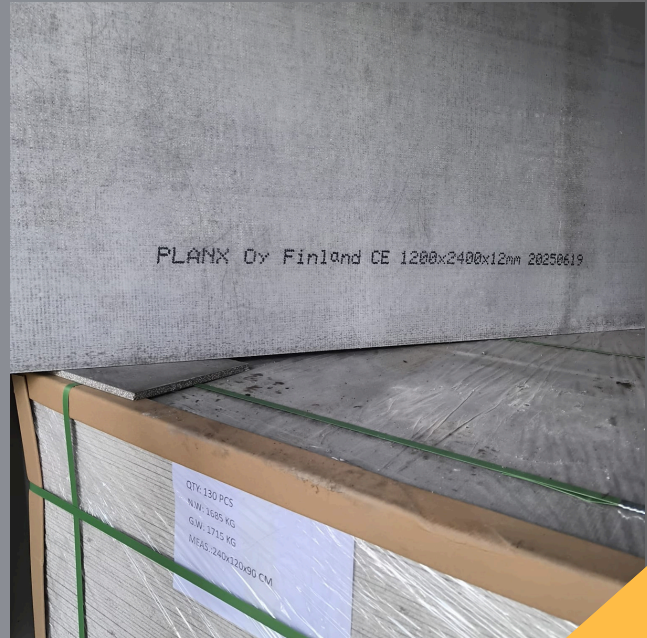
1. Plywood
2. Mortar
3. PLANX cement board
4. Tile





## INSTALLATION GUIDE

### EXTERIOR APPLICATIONS

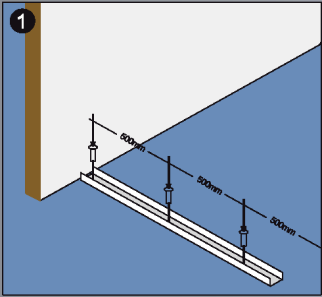


An ideal substrate for exterior applications, such as:

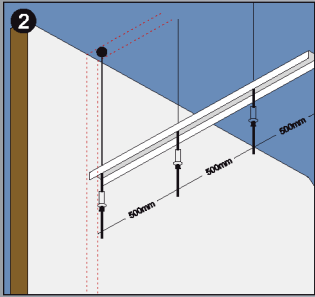
- Tile applications
- Stucco applications
- Cement board stucco
- Thin brick
- Adhered stone veneer
- Thin porcelain tile
- Ventilated rainscreen facade
- EIFS
- Continuous Insulation
- Outdoor kitchens/grills

**Water Barrier:** While PLANX cement board is unaffected by moisture, a water/air resistive barrier (WRB) must be installed to protect the cavity. The type and specific placement or location of the water barrier will vary based on local building codes and/or manufacturers' warranties. Consult the WRB manufacturer's recommendations for specific installation guide-lines.

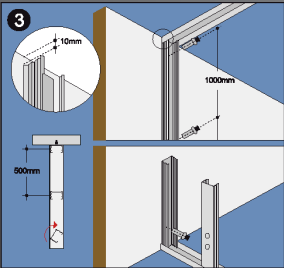
Installation Guide Just For Reference. Each country may be different. The operation should be carried out according to the actual situation of each country.



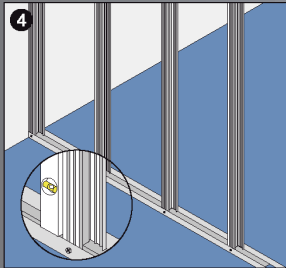
Bottom guide rail



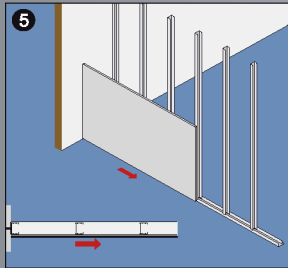
Ceiling rail



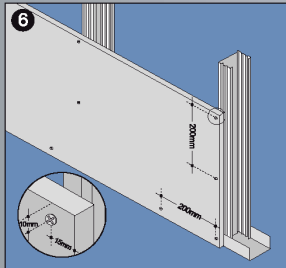
Uprights mounting



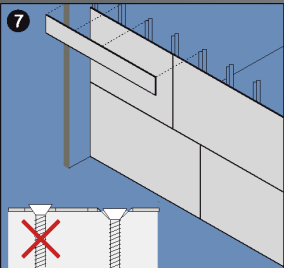
Uprights mounting



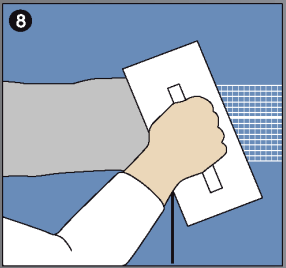
Laying of the slabs



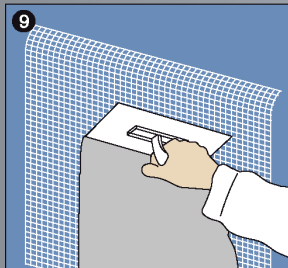
3 mm space between adjacent slabs



Laying slabs on the opposite sides



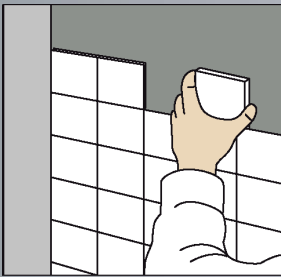
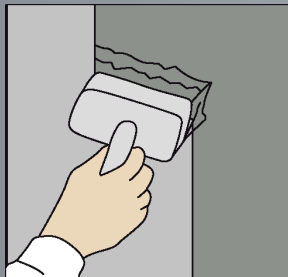
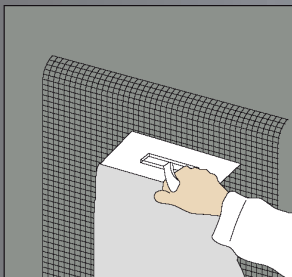
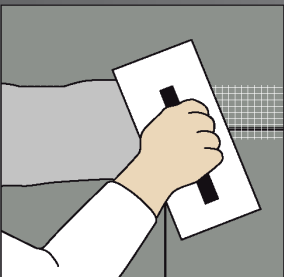
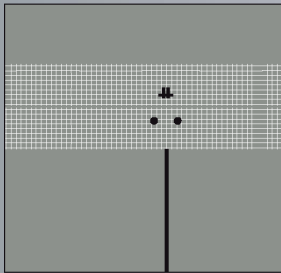
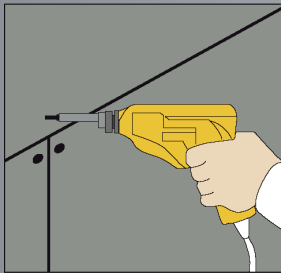
Grouting joints



Leveling

## Installation Solutions

## Ease of processing





## SAFETY IN CASE OF FIRE (BWR 2)

This evaluation report contains the test result/assessments used for assessing the fire protective board: "PLANX Cement Board". Test results are taken from the test/classification reports stated in Cl. 5 of this report. The product was technically characterized according to Cl. 2.2.2.13 and details are deposited at ITC. For the definition and intended use of the product see Cl. 1-2 of the ETA-24/0895.

### 1. REACTION TO FIRE

PLANX Cement Board was tested according to EN ISO 1182 and EN ISO 1716 and meets requirements for Class A1 according to EN 13501-1. Test results – evaluation of reaction to fire testing:

Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[1] STN EN ISO 1182	$\Delta T [^{\circ}\text{C}]$	5	0.9	(-)
	$\Delta m \%$		48.15	(-)
	$t_f$		0	(-)
[2] STN EN ISO 1716	PCS (MJ/kg) PCS (MJ/m <sup>2</sup> )	3	1,339 ± 0,070	(-)

### 2. RESISTANCE TO FIRE

For details of resistance to fire classification see Annex No. A of the ETA 24/0895 and classification of fire resistance report No. FIRES-CR-089-25-AUPE and Test report FIRES-FR-115-25-AUNE.

**Fire resistance classification:**  
**E 120 / EI 90 / EW 120**

Performance criterion		Time till the performance criterion is achieved
Integrity (E)	Sustained flaming	121 minutes no failure
	Gap gauges Ø 6 mm and Ø 25 mm	121 minutes no failure
	Cotton pad	121 minutes no failure
Thermal insulation (I)	Average temperature (140 K)	121 minutes no failure
	Maximal temperature (180 K)	104 minutes
Thermal radiation (W)	15 kW.m <sup>-2</sup>	121 minutes no failure

*Note: The deflection of the specimen exceeded 100 mm after 114 minutes of testing.*

The fire test was terminated in the 122<sup>nd</sup> minute at the request of the test sponsor.



## PROJECTS projects where PLANX cement panels were used





	European Standard	North American Standard	Other Standards	Australian Standards
Standard	EN 12467 EN 13501 -1/2 BS 476	ASTM E 84 CAN/ULC S135 ASTM E9-09 AC 386	CNS 14705 GB 8624 JC 688	AS/NZS 2000 :2908.2 AS 2024 :15301 AS 2004 :4964
Mark	  		/	/
Key content	Reaction to fire: A1 Fire resistance: E120 / EI90 / EW120	WH APPROVED (listed by Intertek)	Qualification	Non-Combustibility Non-Asbestos
Testing Institution	   	 	  	

# PLANX OY

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