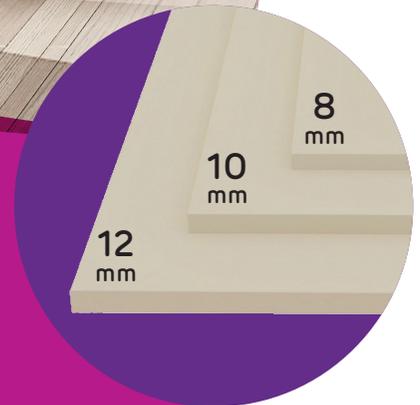




**BEAUTY COMES FROM INSIDE.  
AND FROM OUTSIDE**

## **CEMENTEX**

Fiber-cement board for  
interior and exterior use



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## Cementex boards characteristics

Developed as an alternative to already existing interior and exterior boards, the Cementex fiber cement board has exceptional strength and durability and it can be used in almost any environment.

### What is Cementex board?

Cementex boards are manufactured using Hatscheck technology followed by autoclaving, a process that provides optimal mechanical strength and dimensional stability.

The Cementex boards are made of a combination of cement, cellulose fiber, silica, additives and water.

### STANDARD SIZES OF CEMENTEX BOARDS

Thickness (mm)	Width (mm)	Length (mm)	Weight	
			(kg/m <sup>2</sup> )	(kg/board)
8	1200	2400	11.68	33.64
10	1200	2400	14.60	42.05
12	1200	2400	17.52	50.46



THE PRODUCT HAS STRAIGHT EDGES, JOINT TREATMENT NOT BEING REQUIRED, ONLY ON THE SURFACE, THUS REDUCING THE SYSTEM INSTALLATION TIME.

Cementex 8mm



Cementex 10mm

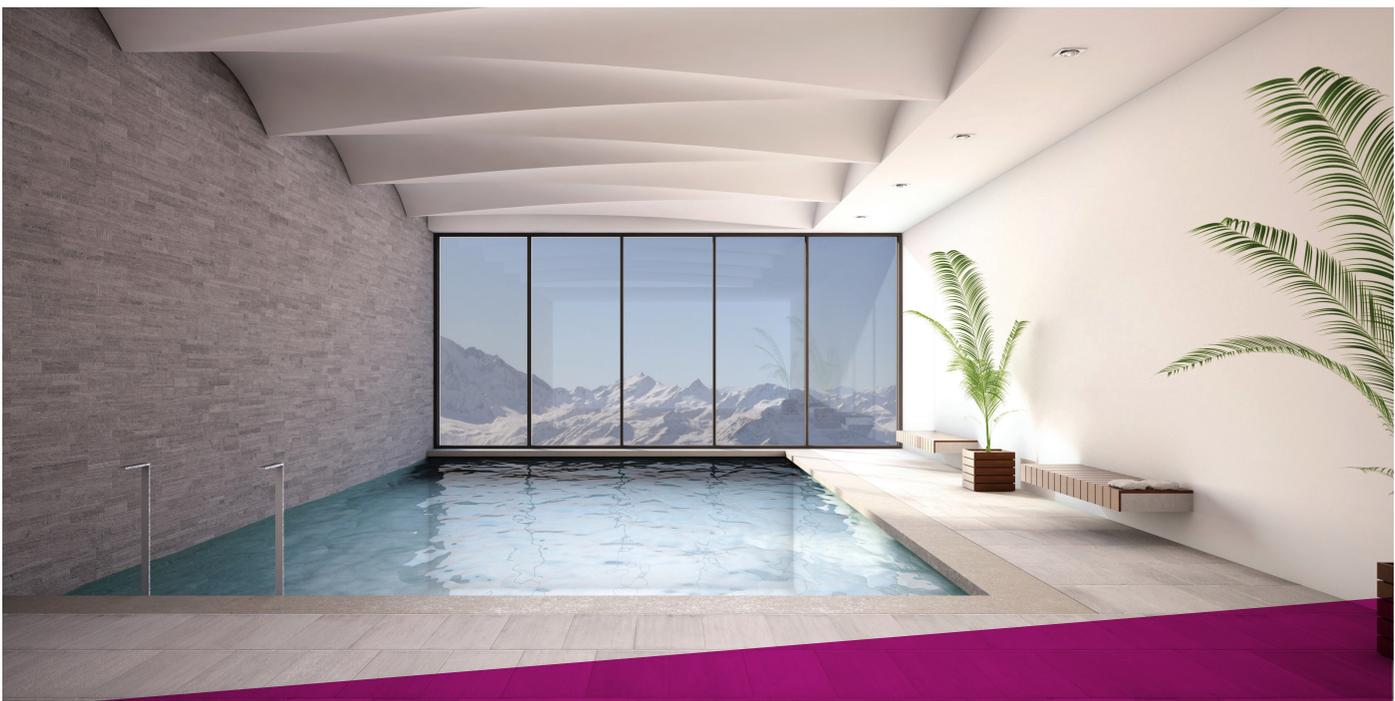
Cementex 12mm

# Advantages of Cementex boards

The combination of chemical products and the manufacturing process has led to the achievement of a board with excellent performances:

- > **Interior and exterior use**
- > **Special architectural shapes**, Cementex boards are included in various systems (soffits, linings, multilayered partitions, facade frames)
- > **Cost optimization**, given the range of available thicknesses of the boards, which can be used differently within the same project
- > **Easy installation**, thanks to the straight edge of the boards, in most situations, joint treatment is not required
- > **Durability**: product tested in accordance with EN 12467:2012+A1:2016 for freeze-thaw cycles (RL $\geq$ 0.75 after 100 cycles), rain-heat (no visible defects after 50 cycles), hot water (RL $\geq$ 0.7), immersion-drying (RL $\geq$ 0.75) etc.
- > **Mechanical resistance** and point load resistance (Class 2, minimum tensile strength in humidity conditions > 7 MPa)
- > **Non-combustible** product, class A1 for 8, 10 and 12 mm thickness, according to EN13501-1

\* RL = Resistance assessed by decreasing the compressive strength of fiber cement boards by the number of freeze-thaw / hot water / immersion-drying cycles in relation to the compressive strength of the control samples.



## Cementex 8 mm



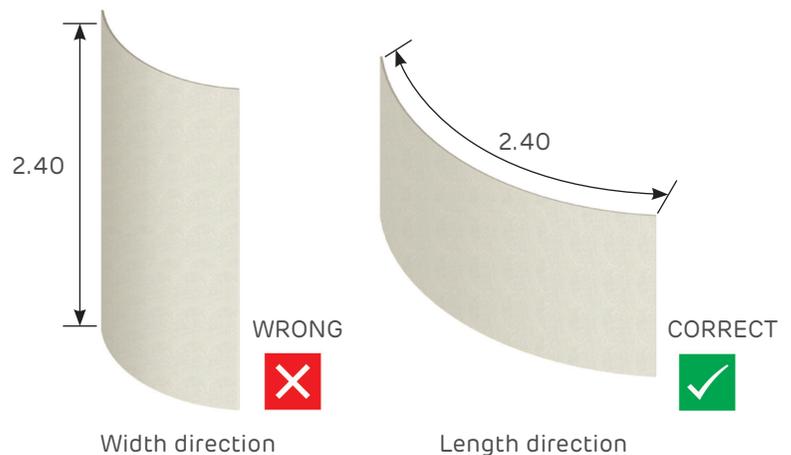
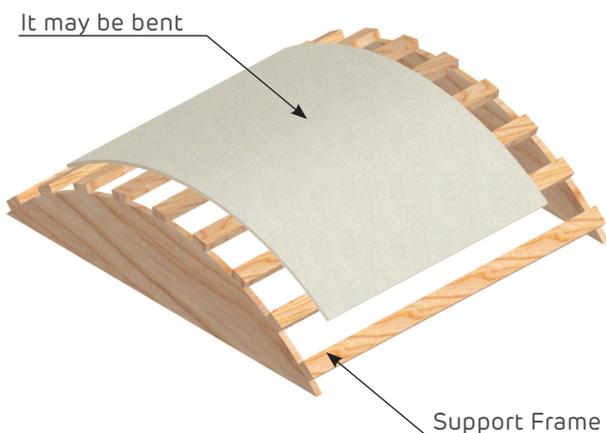
### Areas of use

#### Exterior applications

- > **support for decorative finishing** in systems not directly exposed to exterior weather conditions (suspended ceilings, eaves, soffits...)

#### Interior applications

- > **suspended ceilings**
- > **finishing systems** located in areas with average relative humidity (bathrooms, kitchens, basements, production areas, warehouses, public laundries...)



The 8 mm thick Cementex board gives the possibility to produce curved surfaces with a minimum radius of curvature of 8 m on the long direction of the slab. To obtain such a curve, the board should be well moistened, with a constant load applied on a support frame.

# Cementex 10 mm



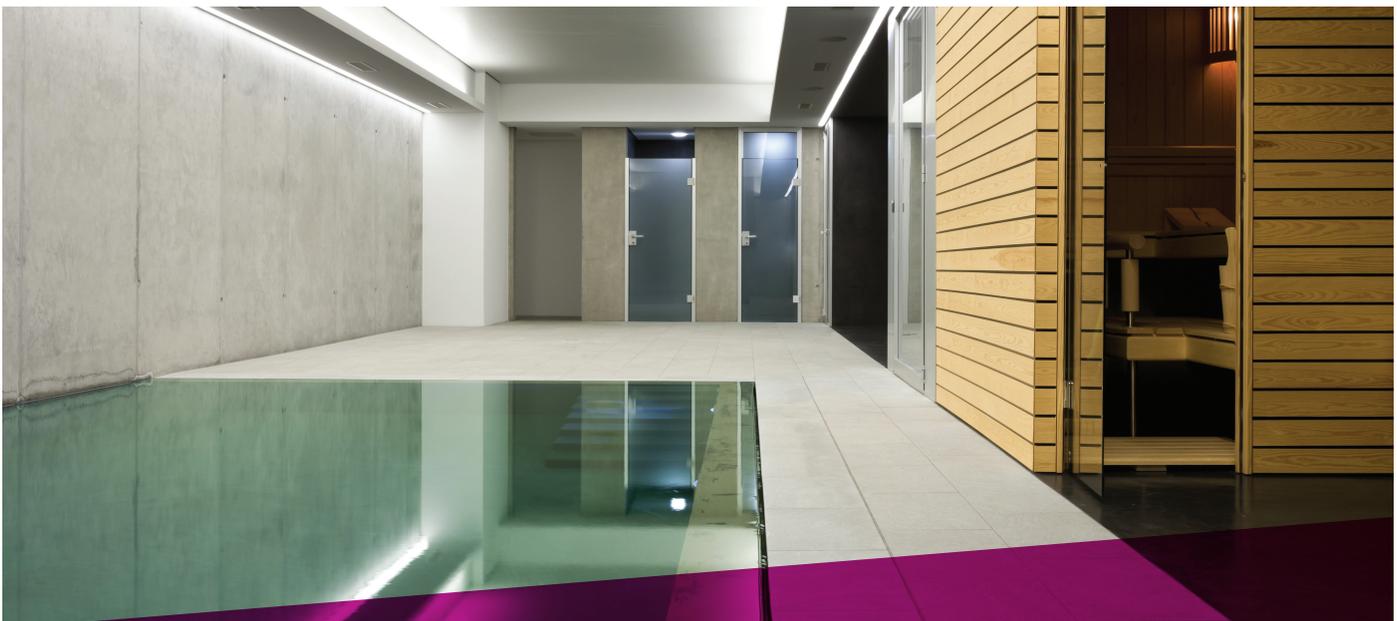
## Areas of use

### Exterior applications

- > **small and average size works** for structural elements, balcony partitions, decorative systems
- > **support for thermoinsulation** in multilayered system for exterior walls
- > **support for decorative finishing** in systems not directly exposed to exterior weather conditions (suspended ceilings, eaves, soffits...)

### Interior applications

- > **finishing systems** located in areas with average and high relative humidity
- > **support for ceramic lining** (swimming pools, spa, car wash, bathrooms, kitchens, unheated basements, parking lots, production areas, warehouses)



## Cementex 12 mm



### Areas of use

#### Exterior applications

- > **support for decorative finishing** in multilayered system for exterior walls
- > **ventilated cladding**
- > **support for thermoinsulation**
- > **structural elements lining**
- > **partitions for balconies, decorative elements**

#### Interior applications

- > **finishing systems** located in areas with average and high relative humidity, impact resistant
- > **support for ceramic lining** (swimming pools, spa, car wash, bathrooms, kitchens, unheated basements, parking lots, production areas, warehouses)



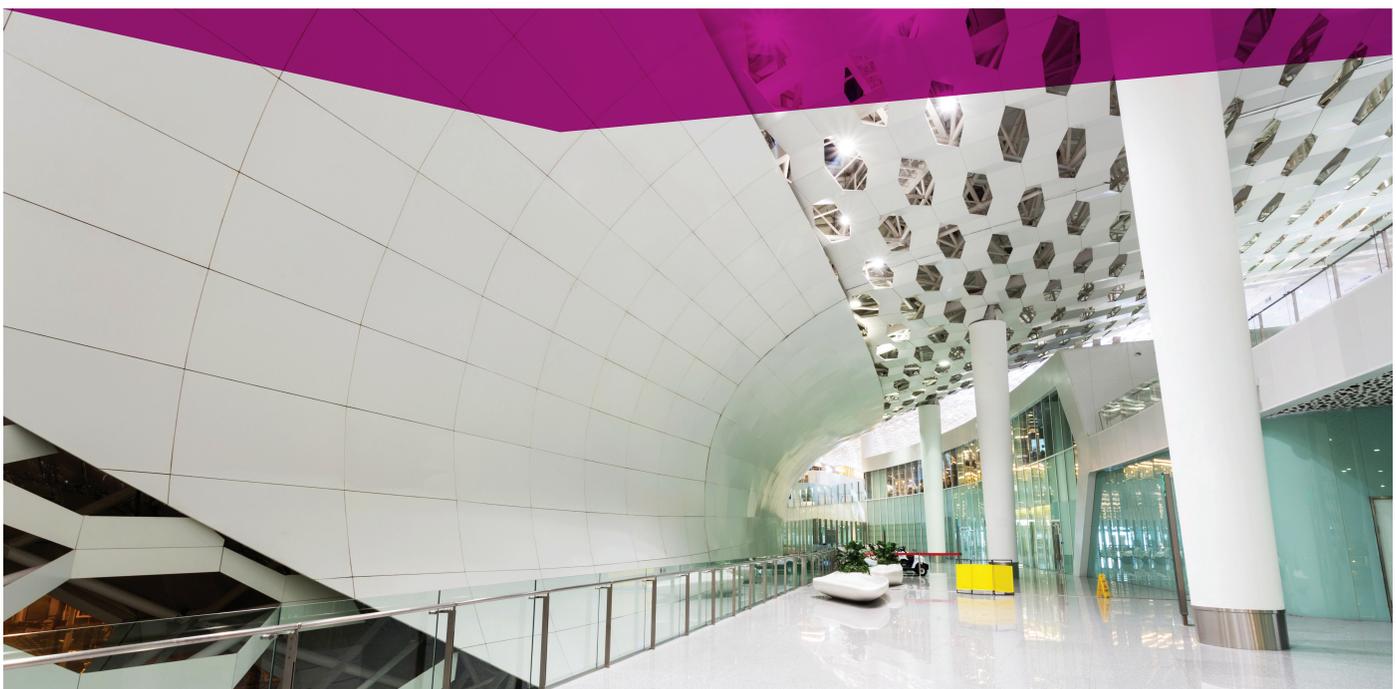
## ■ Cementex fiber cement boards - Installation details

### ■ Cementex - for exterior use

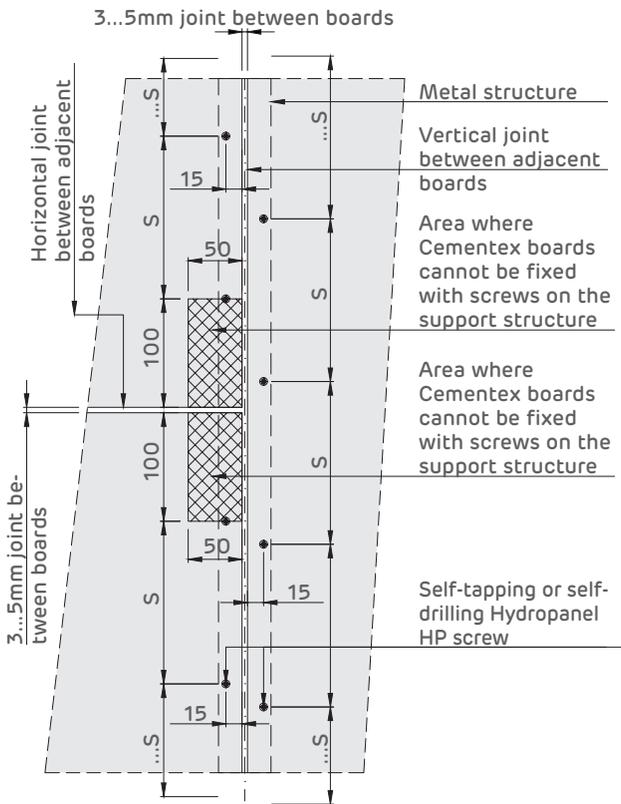
- > Exterior finishing systems made with Cementex fiber cement boards as a support element for decorative finishing
  - Ventilated cladding
  - Multilayer facade walls
  - Partitions
  - Suspended ceilings
  - Soffits
- > Exterior finishing systems made with Cementex fiber cement boards as a support element for mineral wool panels
  - Multilayer facade walls
- > Exterior finishing systems made with Cementex fiber cement boards as support for EPS, XPS polystyrene panels
  - Multilayer facade walls
- > Exterior finishing systems made with Cementex fiber cement boards as a support element for mineral wool mats, behind ventilated architectural cladding
  - Ventilated cladding

### ■ Cementex - for interior use

- > Support for ceramic tiles



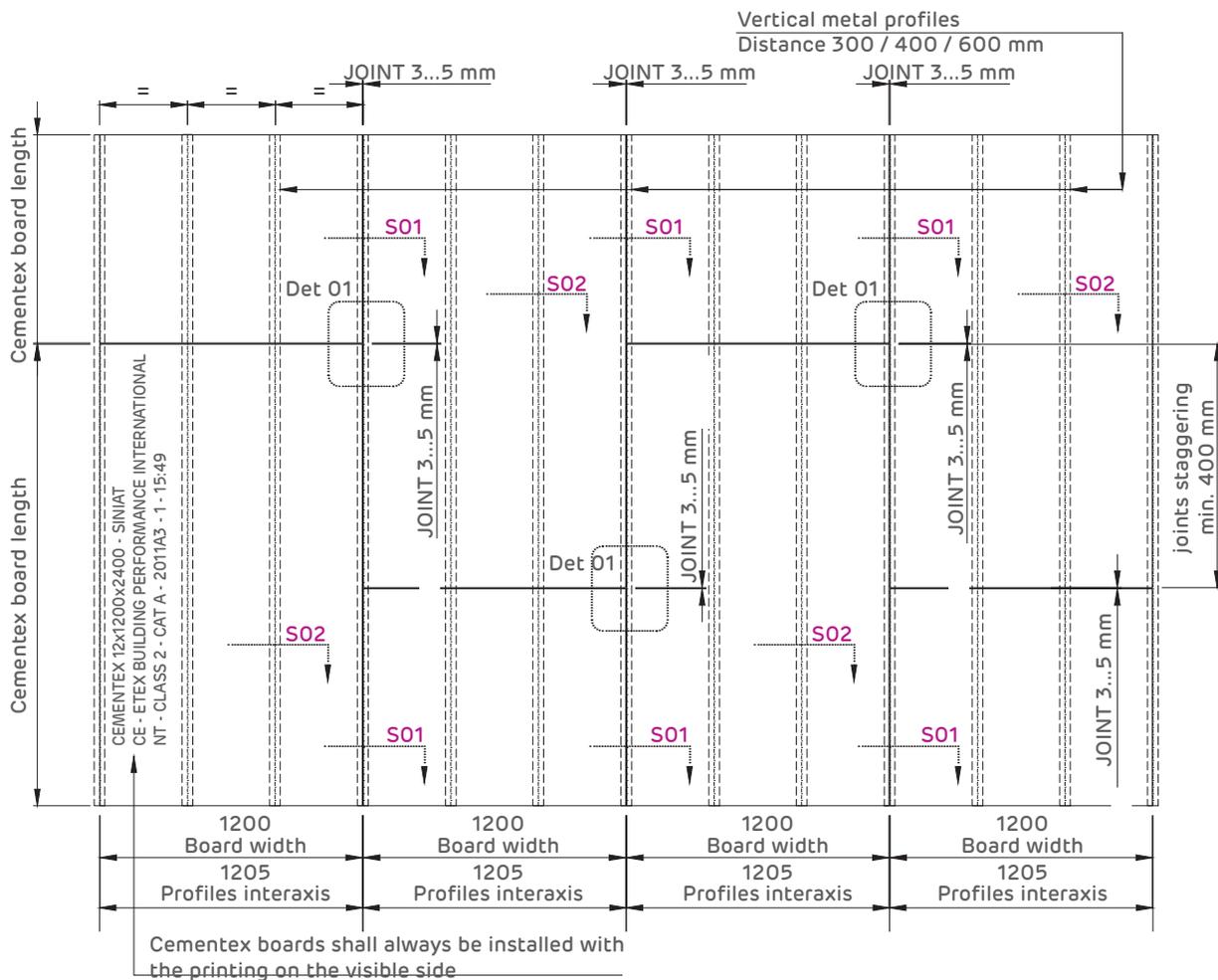
# Installation details



- > The boards are mounted with horizontal and vertical joints of 3 ... 5 mm
- > The profiles interax to the vertical joints is **1205 mm!!!**
- > The boards are installed with the printing on the visible side
- > The joints are staggered vertically by minimum 400 mm
- > The first coating treatments on the surface of the boards (primer) shall be applied at least 24 hours after the installation of the boards on the metal structure, allowing the system to acclimate to the final working conditions
- > The boards are fixed to the metal structure with HP Hydropanel screws, observing the minimum distances from the edges of the boards, i.e. 15 mm

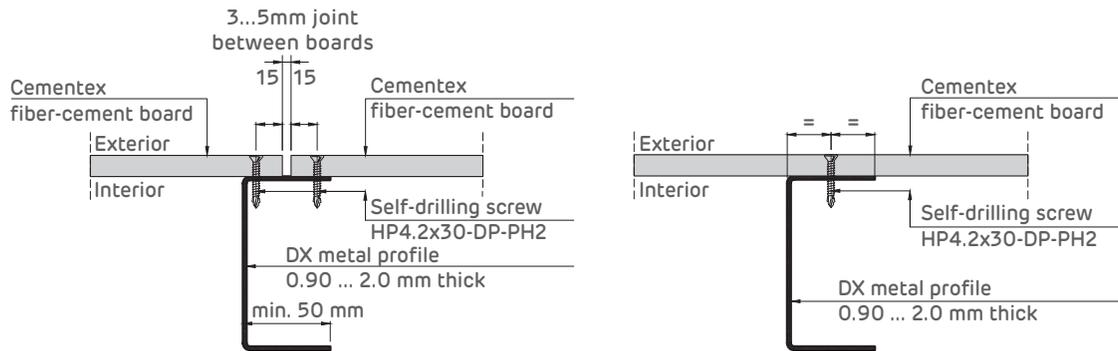
S - the distance between Cementex boards fixing screws on the support structure In the absence of other technical specifications on the project, S = maximum 300 mm

## LOCAL ELEVATION



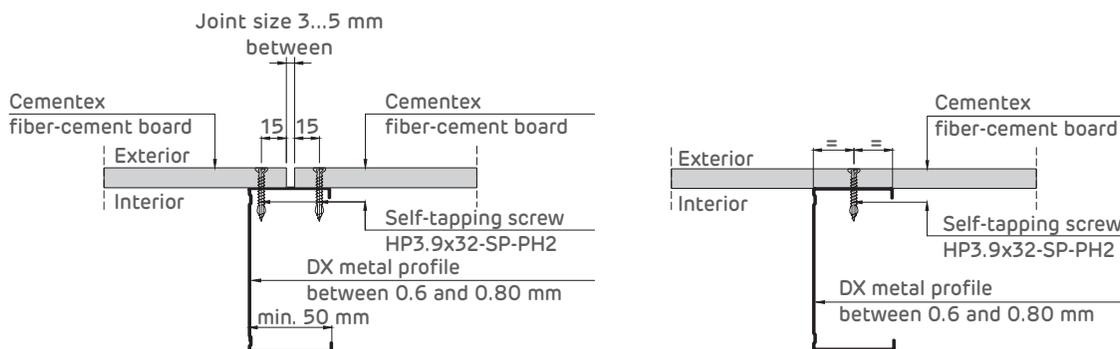
## ■ Boards fixing on metal structure 0.90 mm - 2.0 mm thick Hydropanel HP4.2x30-DP-PH2 self-drilling screws

HORIZONTAL SECTION S01

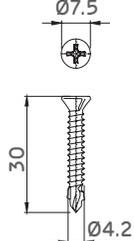


## ■ Boards fixing on metal structure 0.60 mm - 0.80 mm thick Hydropanel HP3.9x32-SP-PH2 self-tapping screws

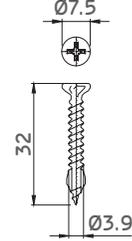
HORIZONTAL SECTION S02



Self-drilling screw  
HP 4.2 x 30-DP-PH2  
(200 pieces/box)



Self-tapping HP screw  
HP 3.9 x 32-SP-PH2  
(500 pieces/box)



### The main features of HP Hydropanel screws for Cementex are:

1. Material: Galvanized steel alloy
2. Additional zinc degree tested for 500 hours in salt water. C3/C5 corrosion resistance class, according to ISO 12944-2, suitable for use in average and high humidity environments, both indoors and outdoors.
3. Installation BIT type PH2

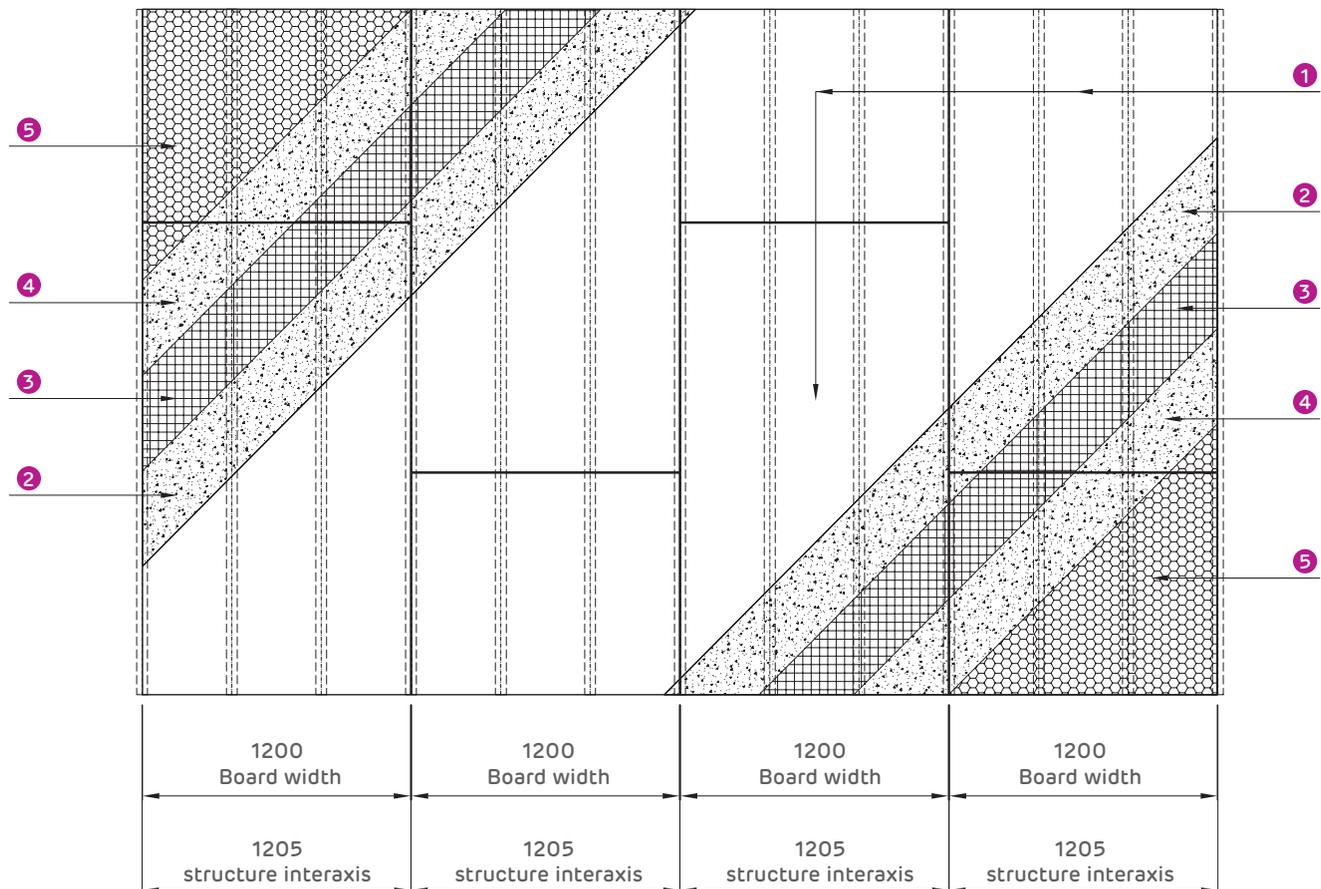
## Cementex - for exterior use

### ■ Exterior finishing systems made with Cementex fiber cement boards as a support element for decorative finish

The main steps in the coating execution are:

1. Primer applied on the entire surface of the boards, including the joints
2. The first layer of base coat 2mm thick. It shall be applied including in the joints between Cementex boards (joint sizes 3...5 mm)
3. Fiber glass mesh (min. 160 g/m<sup>2</sup>) which remains embedded in the base coat.
4. The last layer of base coat 2mm thick
5. Decorative finishing coating system
  - a. Base coat primer
  - b. Decorative plaster

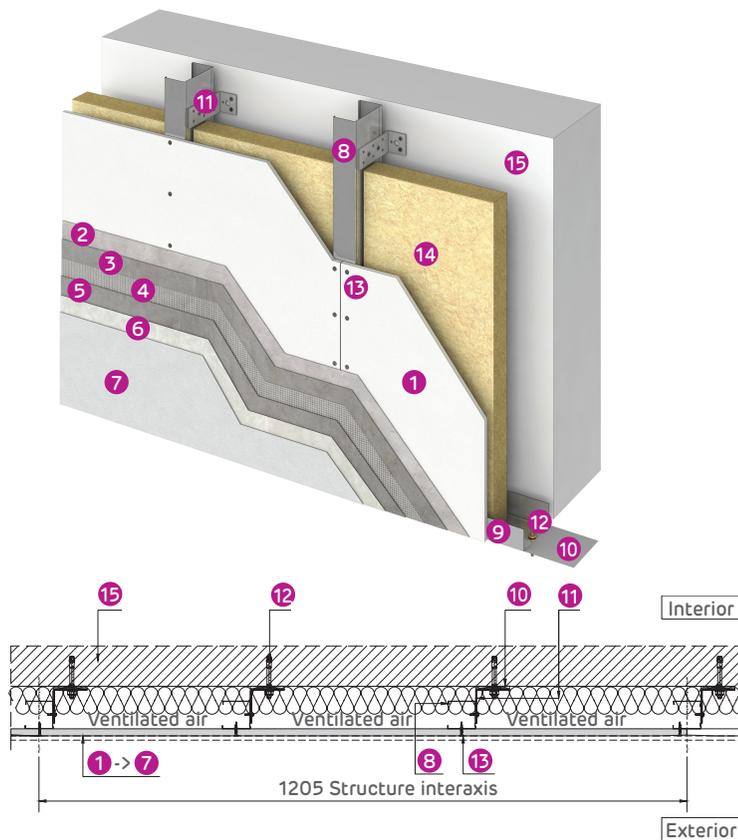
Local elevation



The application of further detailed finishing systems will be carried out at least 24 hours after the installation of the Cementex boards on the structure. This is the period the boards are acclimatized to the final working conditions.

**Very important:** For the waterproofing of the system at the bottom (system intersection with the concrete slab or other support element) use the waterproofing membrane which will be continuously disposed on the Cementex board and the bottom support element) and liquid waterproofing which is applied using a brush.

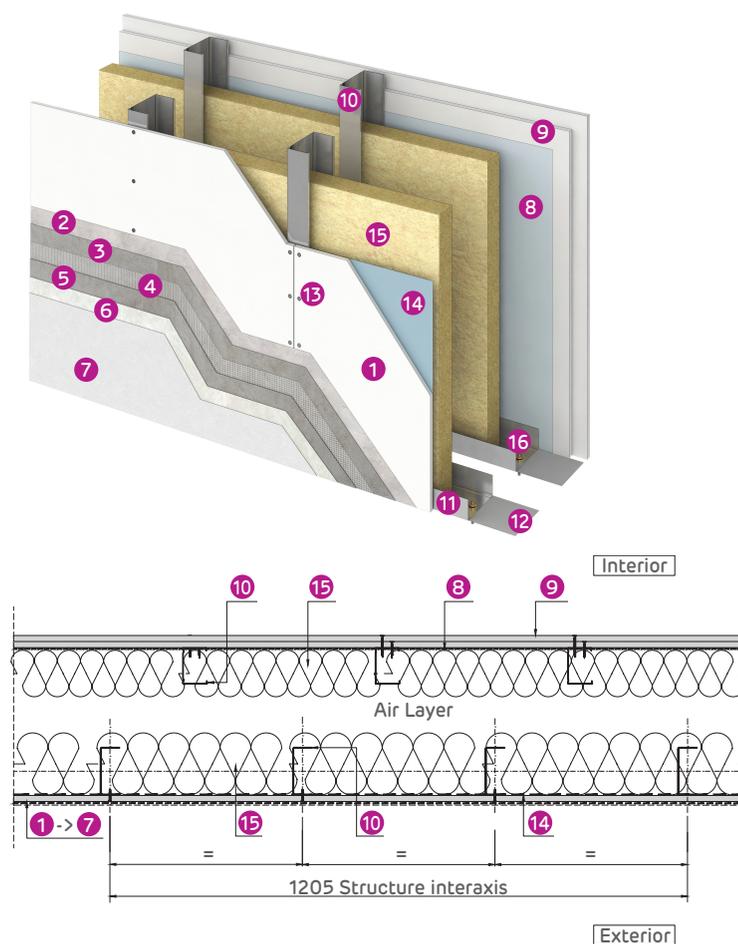
## Ventilated cladding



Horizontal section

- 1 Cementex fiber-cement board
- 2 Primer
- 3 Base coat
- 4 Fiber glass reinforcing tape
- 5 Base coat
- 6 Primer
- 7 Decorative paint / plaster
- 8 NIDA Metal stud profile
- 9 NIDA Metal track profile
- 10 Monoadhesive insulating tape
- 11 Metal corner 200x40x40 2 mm thickness
- 12 Mechanical fastening - 1 piece / fixation
- 13 HP self-drilling screw
- 14 Thermo-insulating panel made of mineral wool for ventilated facades
- 15 Fixed support (reinforced concrete, masonry, AAC...)

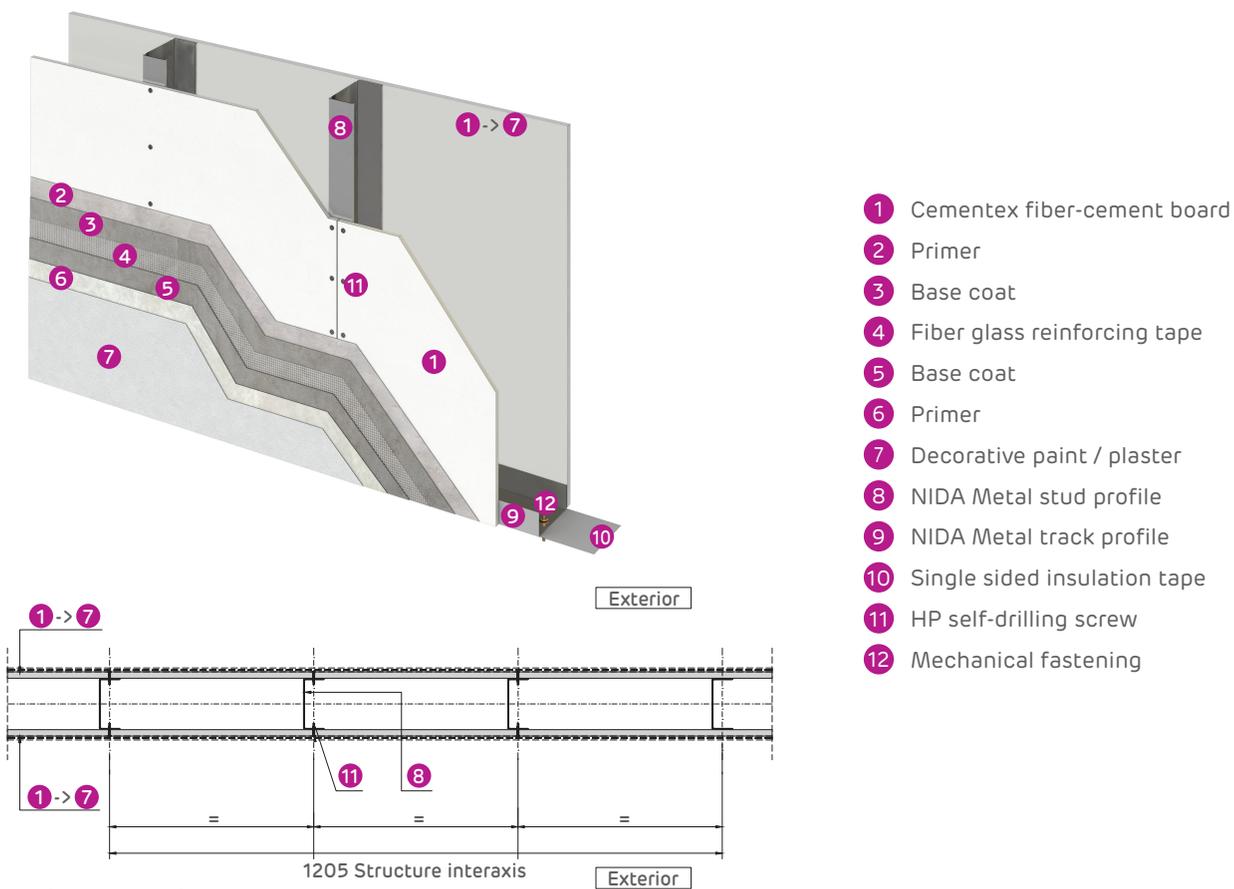
## Multilayer facade walls



Horizontal section

- 1 Cementex fiber-cement board
- 2 Primer
- 3 Base coat
- 4 Fiber glass reinforcing tape
- 5 Base coat
- 6 Primer
- 7 Decorative paint / plaster
- 8 Vapor barrier
- 9 Interior finishing system
- 10 NIDA Metal stud profile
- 11 NIDA Metal track profile
- 12 Monoadhesive insulating tape
- 13 HP self-drilling screw
- 14 Diffusion foil
- 15 Thermo-insulating panel made of mineral wool
- 16 Mechanical fastening

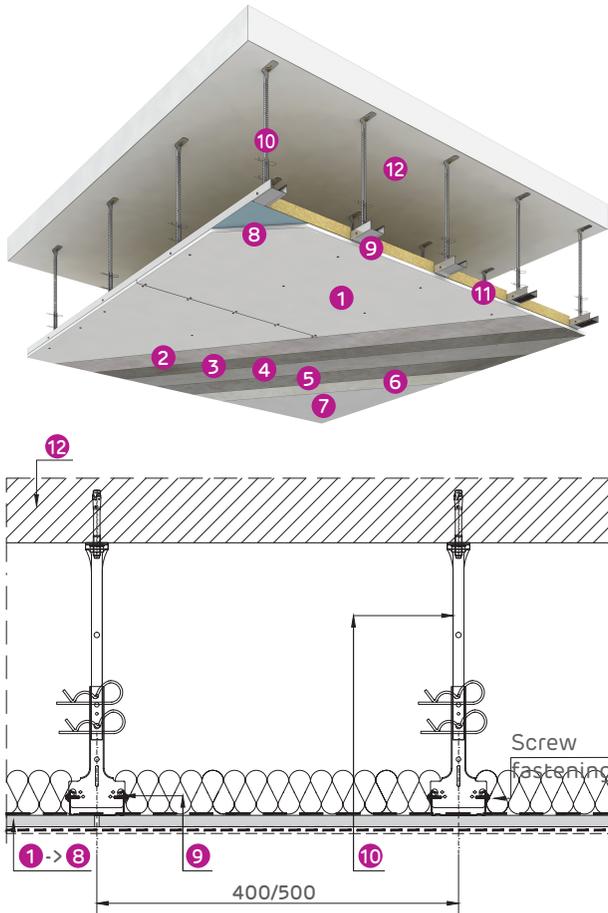
## Partitions (external enclosures)



Horizontal section



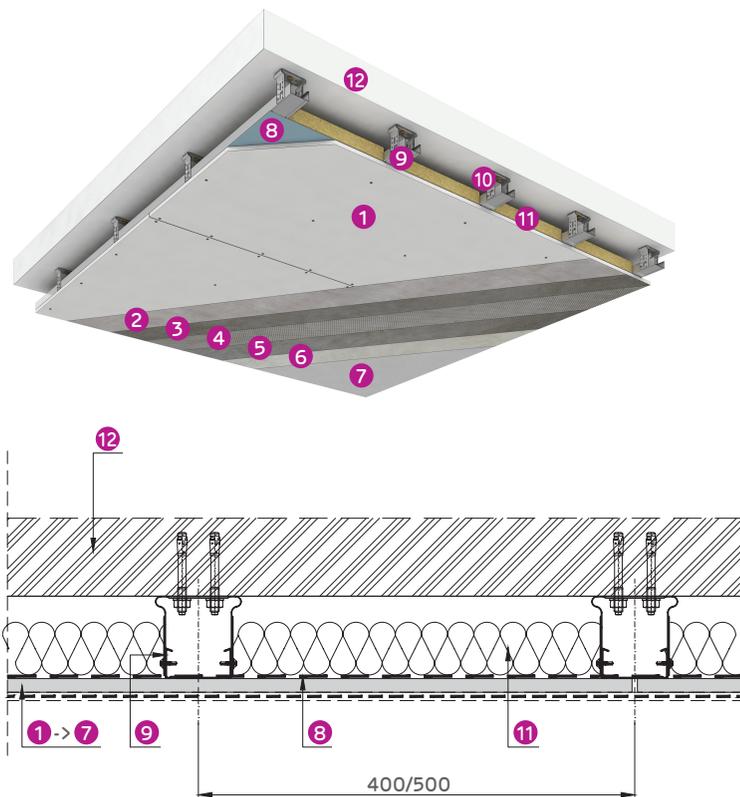
## Ceiling suspended on the CD60 ZN275 structure and Nonius hanger assembly.



Vertical section

- 1 Cementex fiber-cement board
- 2 Primer
- 3 Base coat
- 4 Fiber glass reinforcing tape
- 5 Base coat
- 6 Primer
- 7 Decorative paint / plaster
- 8 Diffusion foil
- 9 NIDA Metal CD60 ZN275 profile
- 10 Adjustable Nonius hanger Assembly
- 11 Mineral wool
- 12 Support surface (reinforced concrete, metal structure ...)

## Soffit made on a simple CD60 / UD30 ZN275 structure and adjustable brackets assembly for mounting.



Vertical section

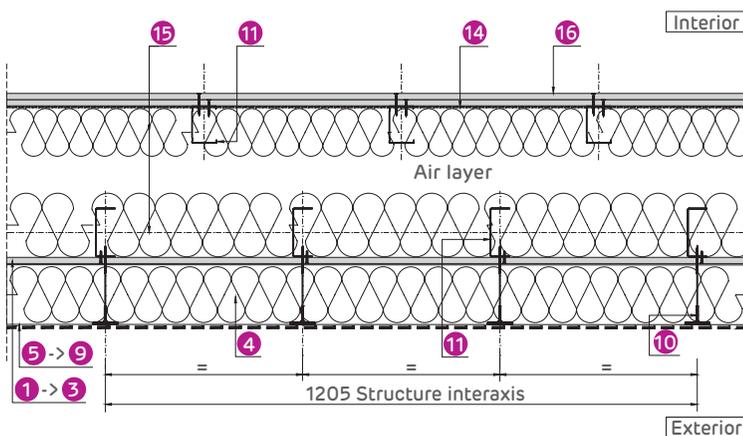
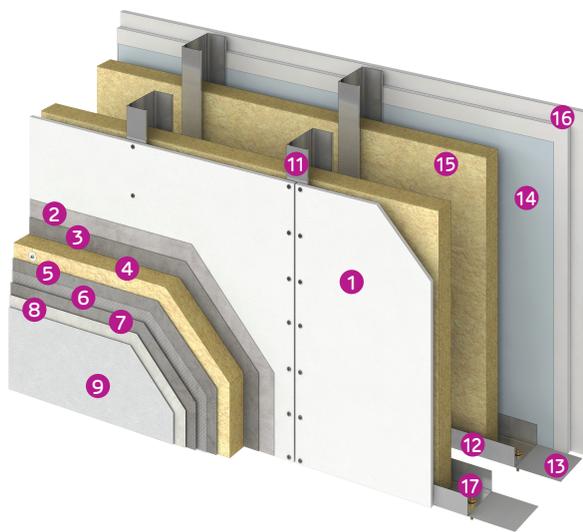
- 1 Cementex fiber-cement board
- 2 Primer
- 3 Base coat
- 4 Fiber glass reinforcing tape
- 5 Base coat
- 6 Primer
- 7 Decorative paint / plaster
- 8 Diffusion foil
- 9 NIDA Metal CD60 ZN275 profile
- 10 Adjustable brackets assembly for mounting
- 11 Mineral wool
- 12 Support surface (reinforced concrete, metal structure ...)

## ■ Exterior finishing systems made with Cemtex fiber cement boards as a support element for mineral wool panels

The main steps in the coating execution are:

1. Primer applied on the surface of the boards, including boards joints area
2. Adhesive applied in continuous bed. It shall be applied including in the joints between Cemtex boards (joint sizes 3...5 mm)
3. Thermo- insulating panel made of mineral wool. They will also be attached to the support structure by means of mechanical fixings adapted to the type of support structure
4. Base coat reinforced with glass fiber mesh
5. Decorative finishing coating system:
  - a. Base coat primer
  - b. Decorative plaster

## Applications in multilayer facade walls systems



Horizontal section

Multilayer facade walls made with Cemtex fiber cement boards, as a support element for mineral wool thermal insulation panels (EIFS system)

**The application of further detailed finishing systems will be carried out at least 24 hours after the installation of the Cemtex boards on the structure. This is the period the boards are acclimatized to the final working conditions.**

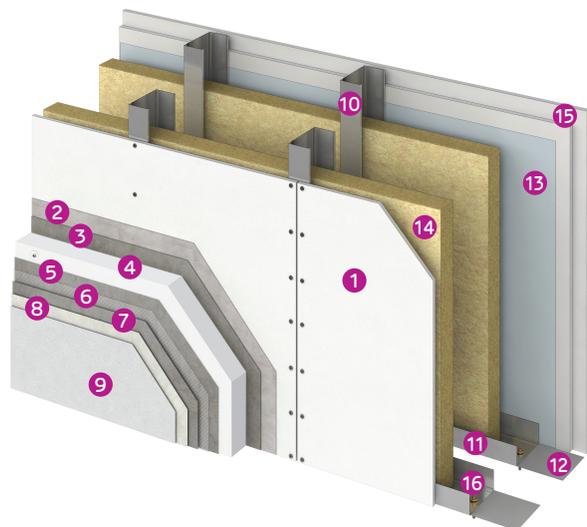
- 1 Cementex fiber-cement board
- 2 Primer
- 3 Adhesive for mineral wool
- 4 Thermo-insulating panel made of mineral wool
- 5 Base coat
- 6 Fiber glass reinforcing tape
- 7 Base coat
- 8 Primer
- 9 Decorative paint / plaster
- 10 Mineral wool anchors dowels
- 11 NIDA Metal stud profile
- 12 NIDA Metal track profile
- 13 Monoadhesive insulating tape
- 14 Vapor barrier
- 15 Thermo-insulating panel made of mineral wool
- 16 Interior finishing system
- 17 Mechanical fastening

## ■ Exterior finishing systems made with Cementex fiber cement boards, as a support element for mineral wool panels

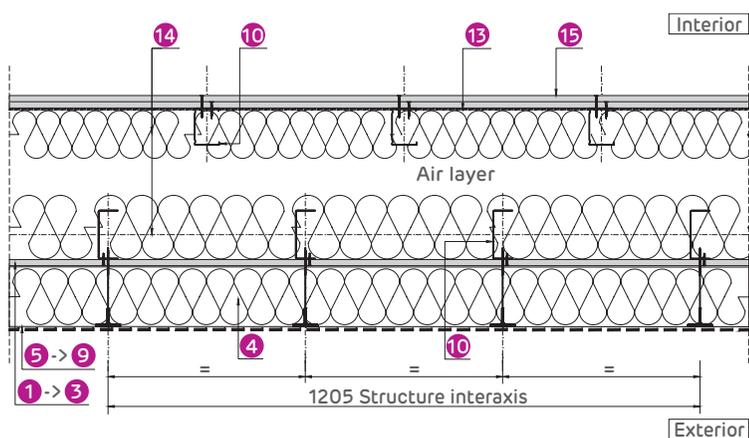
The main steps in the coating execution are:

1. Primer applied on the surface of the boards, including boards joints area
2. Adhesive for polystyrene applied in continuous bed. It shall be applied including in the joints between Cementex boards (joint sizes 3...5 mm)
3. Thermo- insulating panel made of XPS polystyrene. They will also be attached to the support structure by means of mechanical fixings adapted to the type of support structure
4. Base coat for polystyrene, reinforced with glass fiber mesh.
5. Decorative finishing coating system
  - a. Base coat primer
  - b. Decorative plaster

## Applications in multilayer facade walls systems



- 1 Cementex fiber-cement board
- 2 Primer
- 3 Adhesive for polystyrene
- 4 Thermo- insulating panel made of EPS, XPS polystyrene
- 5 Base coat
- 6 Fiber glass reinforcing tape
- 7 Base coat
- 8 Primer
- 9 Decorative paint / plaster
- 10 NIDA Metal stud profile
- 11 NIDA Metal track profile
- 12 Monoadhesive insulating tape
- 13 Vapor barrier
- 14 Thermo-insulating panel made of mineral wool
- 15 Interior finishing system
- 16 Mechanical fastening



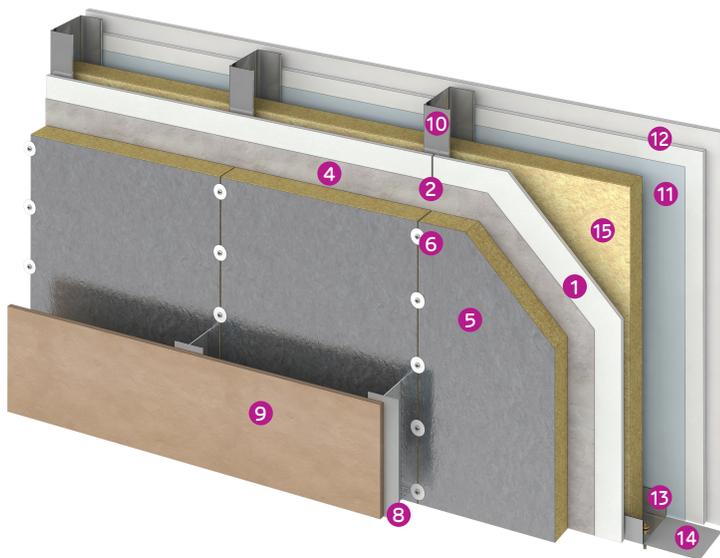
Horizontal section

The application of further detailed finishing systems will be carried out at least 24 hours after the installation of the Cementex boards on the structure. This is the period the boards are acclimatized to the final working conditions.

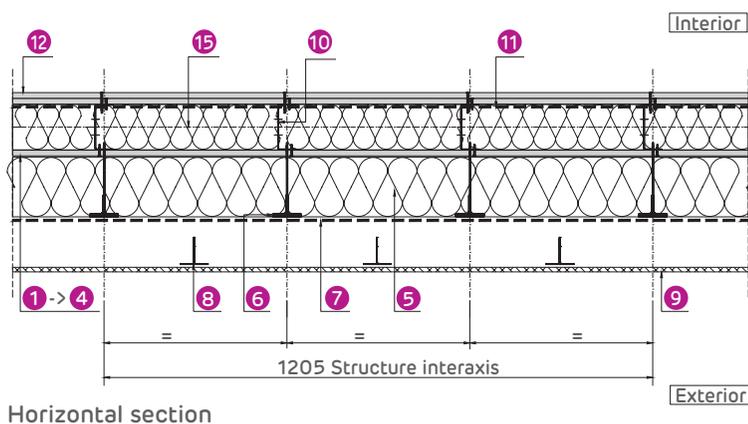
## ■ Exterior finishing systems made with Cementex fiber cement boards as a support element for mineral wool mats, behind ventilated architectural cladding

The main steps in joints coating are:

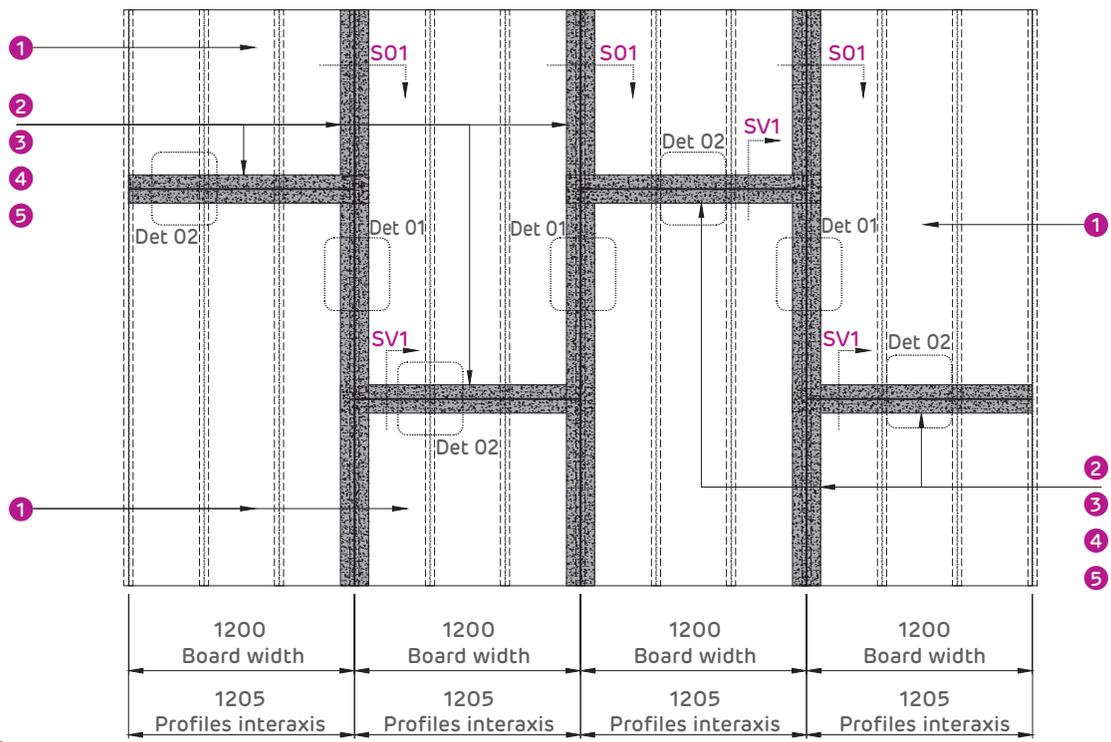
1. Primer applied on the entire surface of Cementex boards
2. The first layer of base coat 2mm thick. It shall also be applied in the joints between Cementex boards (joint sizes 3...5 mm). Width 125...150 mm
3. Fiberglass tape (min 160 grams / m<sup>2</sup>) 100 mm width, which remains embedded in the base coat
4. The last layer of base coat 2mm thick Application width 125...150 mm



- 1 Cementex fiber-cement board
- 2 Joint treatment
- 3 Hydrophobic mineral wool, laminated
- 4 Dowel screw with metal rosette
- 5 Waterproofing membrane
- 6 T-section profile for ventilated cladding
- 7 Facade board
- 8 Metal structure
- 9 Vapor barrier
- 10 Interior finishing system
- 11 NIDA Metal track profile
- 12 Monoadhesive insulating tape
- 13 Mineral wool
- 14 Monoadhesive insulating tape
- 15 Thermo-insulating panel made of mineral wool



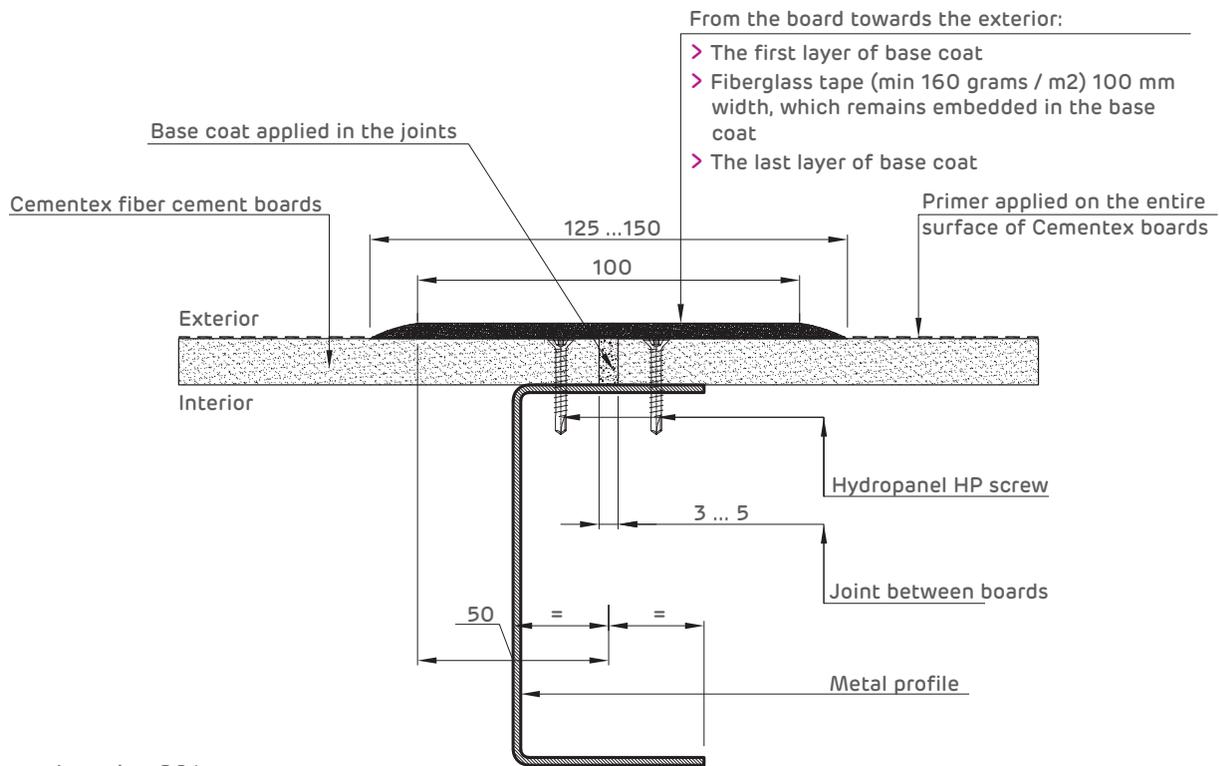
## Joint treatment



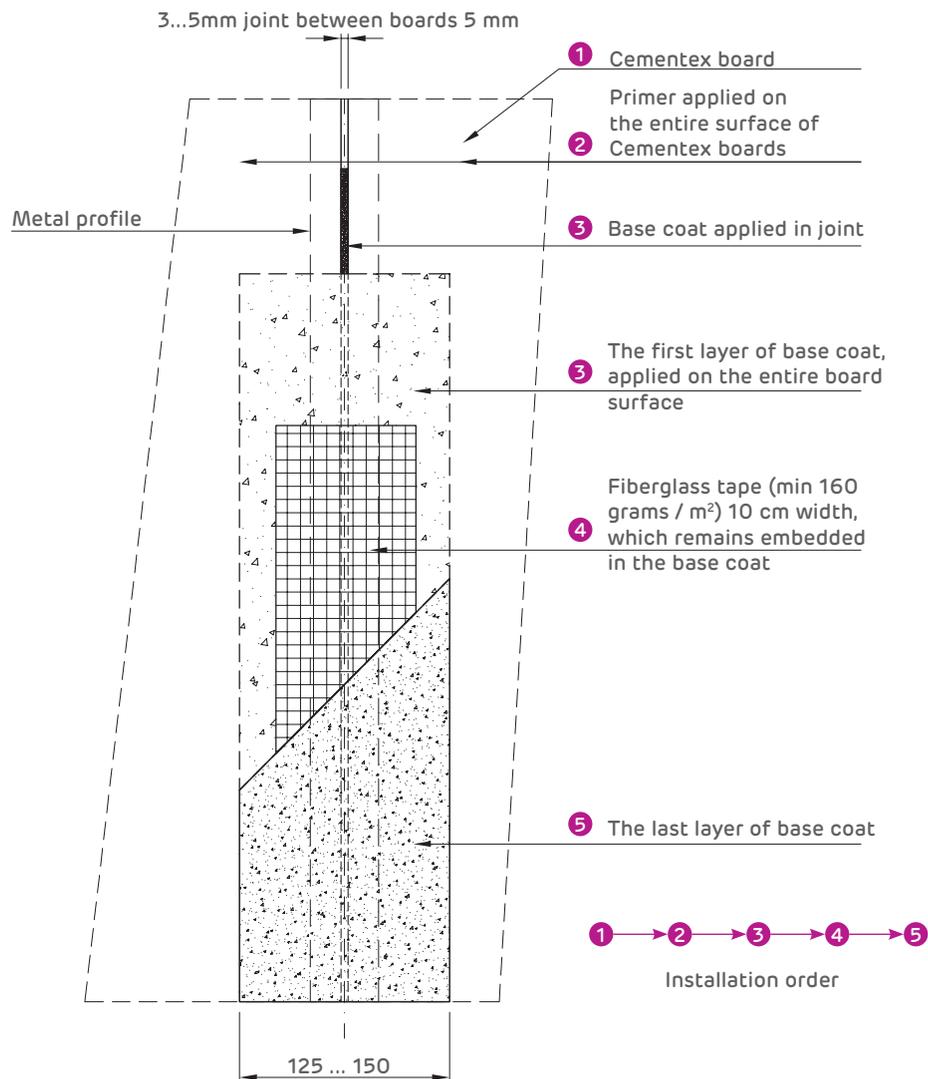
## Local elevation



### Sealing details of vertical joints between Cementex boards

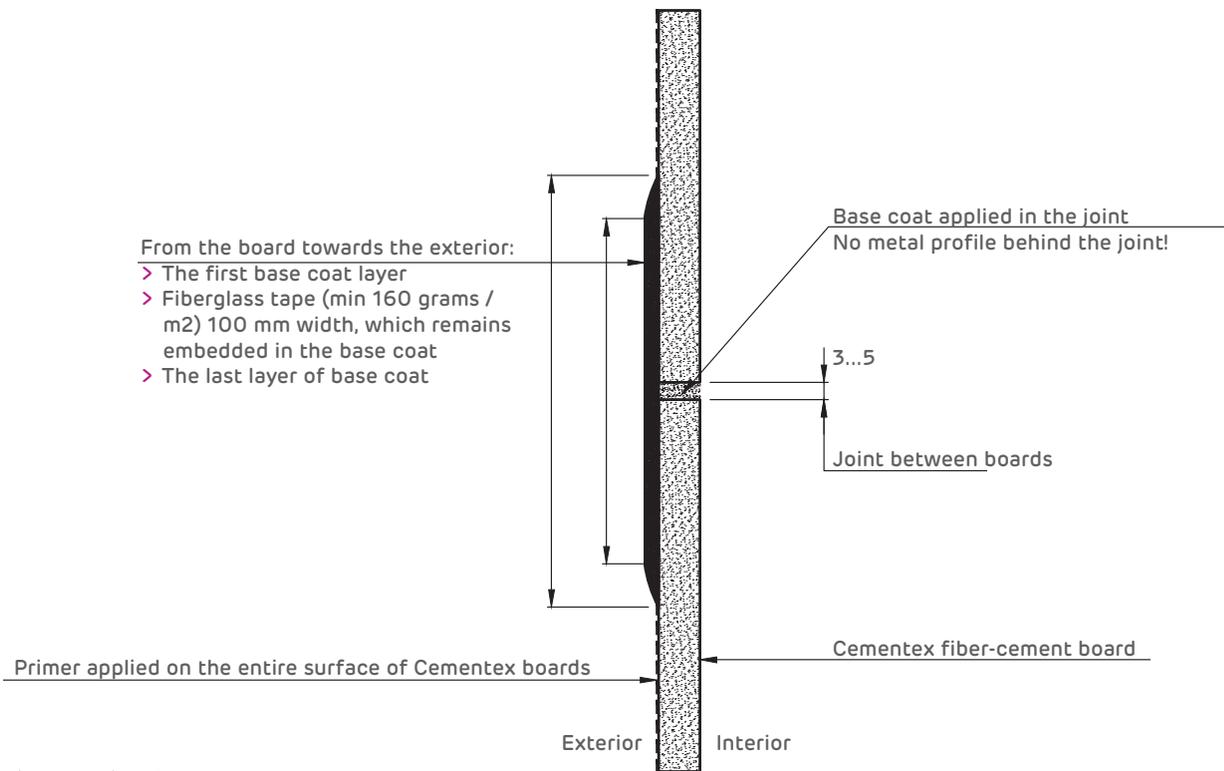


Horizontal section S01

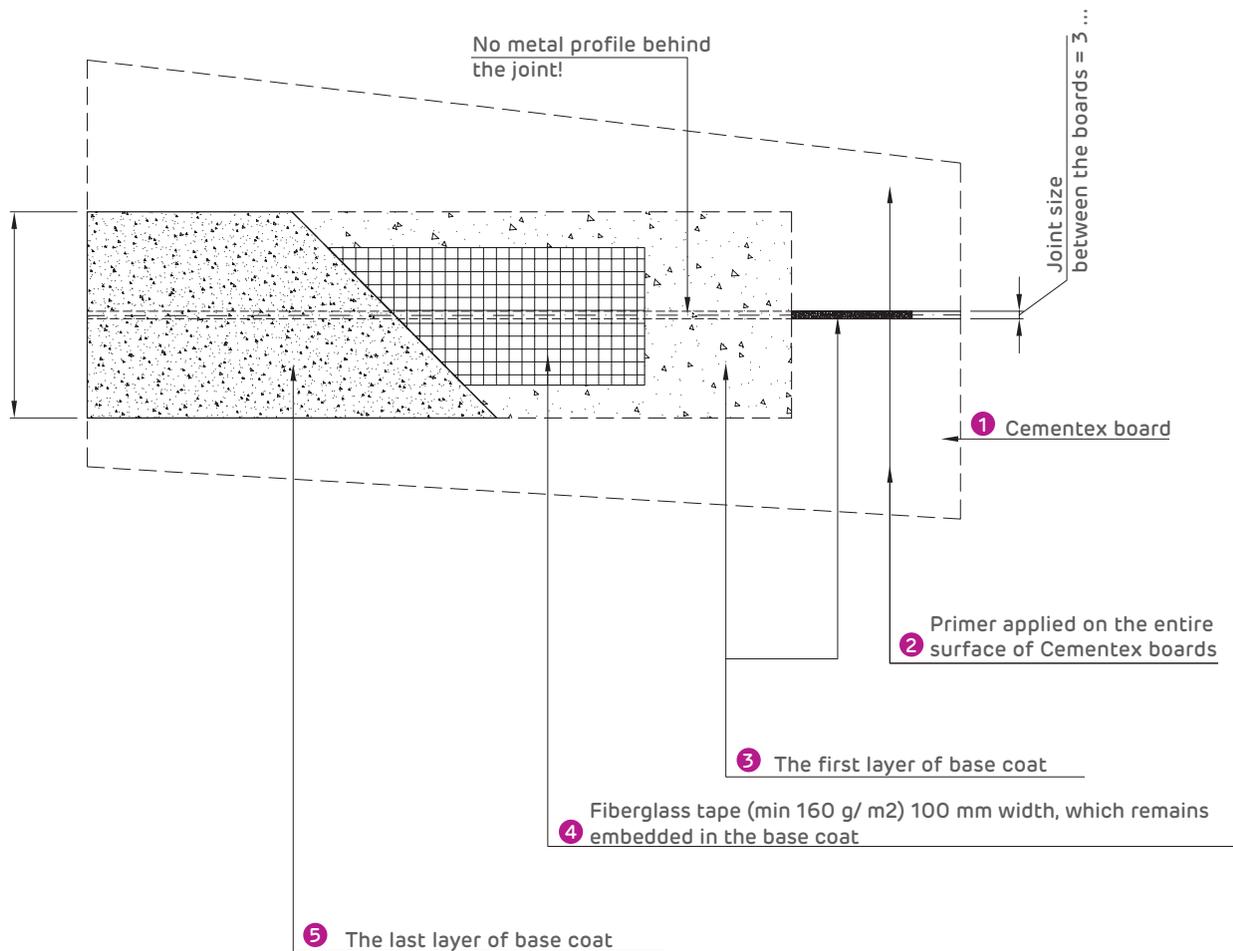


Detail D1. Local elevation

## Sealing details of horizontal joints between Cementex boards



Vertical section SV1



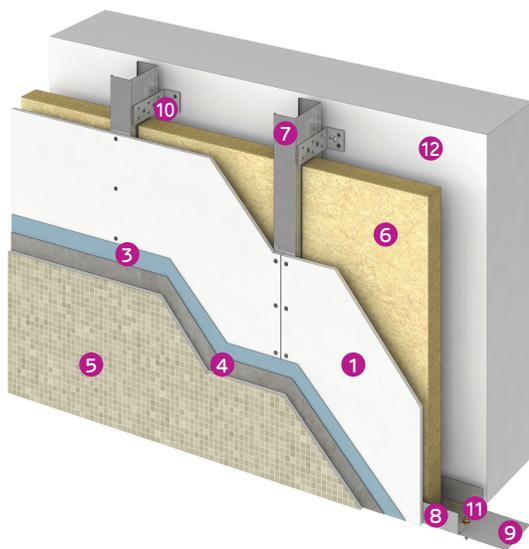
Detail D2. Local elevation

## Cementex- for interior use

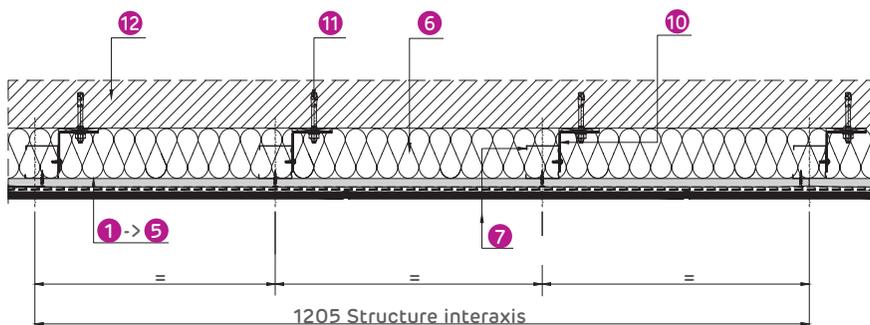
### ■ Finishing systems made with Cementex fiber cement boards as a support element for ceramic lining

The main steps in surface finish of the finishing system are:

1. Primer applied on the entire surface of Cementex boards
2. Flexible waterproofing - recommended product only in areas prone to contact with liquid water
3. Super flexible adhesive, applied also in the joints between Cementex boards
4. Ceramic lining with putty for joints



- 1 Cementex fiber-cement board
- 2 Primer
- 3 Flexible waterproofing
- 4 Super flexible adhesive for ceramic tiles
- 5 Ceramic lining with putty for joints
- 6 Thermo-insulating panel made of mineral wool
- 7 NIDA Metal stud profile
- 8 NIDA Metal track profile
- 9 Monoadhesive insulating tape
- 10 Metallic consoles
- 11 Mechanical fastening
- 12 Support surface (reinforced concrete, masonry, AAC...)



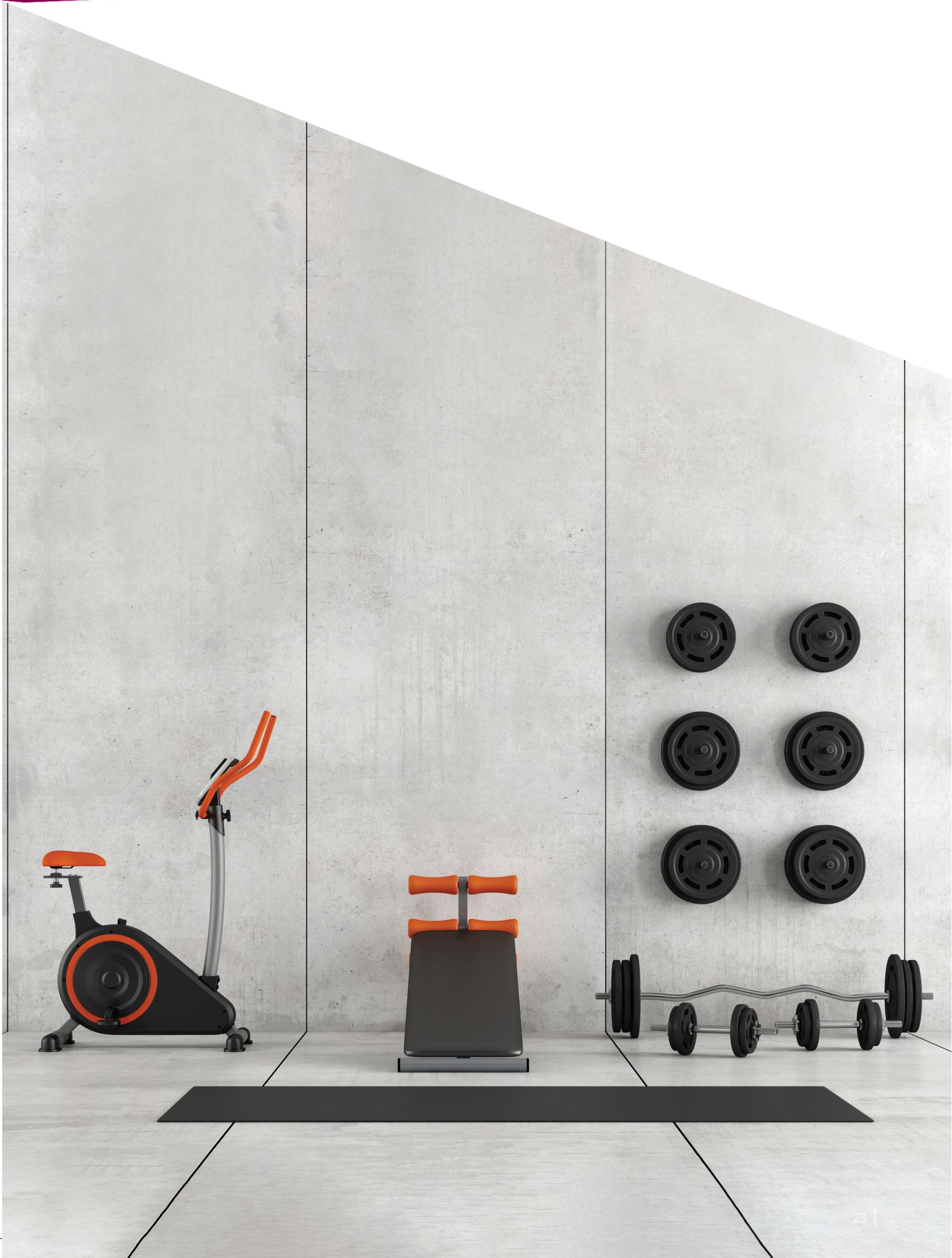
Horizontal section

The products used to make Cementex boards are part of the Ceresit portfolio, namely:

- > Deep penetrating primer, solvent free, CT 17
- > Adhesive mortar and base coat, CT 190
- > Glass fiber mesh Ceresit CT 325
- > Base coat priming paint, CT 16
- > Decorative plasters, CT 174 and CT 175
- > Universal adhesive mortar, ThermoUniversal
- > Flexible waterproofing CL 50
- > Adhesives for ceramic tiles and natural stone, CM 17 and CM 25

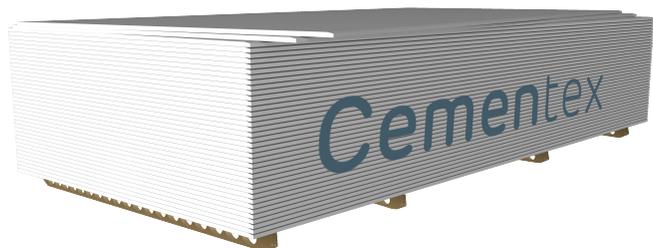
These products may be replaced by other equivalent products having at least the same characteristics as specified by the manufacturer.

More information on the installation technology and the working conditions specific to each individual product can be found in the manufacturer's technical datasheets.



# Cementex 8 mm

## Fiber-cement board



### DESCRIPTION:

Cementex is a flat fiber cement board, suitable for exterior and interior applications. The boards are manufactured using Hatscheck technology followed by autoclaving, a process that provides optimal mechanical strength and dimensional stability. The main elements the boards are made of are: cement, organic cellulose fibers silica, additives and water.

### PERFORMANCES

Thickness	8 mm
Width	1200 mm
Length	2400 mm
Apparent density	≈ 1460 kg/m <sup>3</sup>
Board weight	≈ 11.68 kg/m <sup>2</sup>
Longitudinal and transversal profile edges	Straight (SE)
Classification according to EN 12467:2012+A1:2016	Category A: Boards designed for applications where heat, high moisture and severe freezing may occur.
Shape and nominal sizes tolerances	Level II
Mechanical resistance	Class 2, minimum tensile strength in humidity conditions > 7 MPa
Fire reaction class, according to EN 13501-1	A1
Water proof	Without water droplets on the unexposed side of the board
Freeze-thaw durability	RL ≥ 0.75, after 100 cycles
Hot water durability	RL ≥ 0.75
Heat-rain durability	No visible defects after 50 cycles
Immersion-drying durability	RL ≥ 0.75, after 50 cycles
Expansion due to variation in relative humidity	< 0.04% 0.40 mm/m
Emission of hazardous substances	NPD
Systems of attestation of conformity	System 3: Fire reaction SYSTEM 4 Other requirements
Minimum radius of curvature longitudinally	8.0 m
Resistance to airborne sound	Calculated for each system
Packaging	67 boards/ pallet. Pallet weight 2243 kg SAP Code: 146387
	109 boards / pallet. Pallet weight 3617 kg SAP Code: 146388

### AREAS OF USE

#### Interior applications

- ▶ Suspended ceilings and finishing systems located in areas with average relative humidity (bathrooms, kitchens, basements, production areas, warehouses, public laundries...)

#### Exterior applications

- ▶ Support for decorative finishing in systems not directly exposed to exterior weather conditions (suspended ceilings, eaves, soffits...)





Resistance to



Technical performance



Durability

## RECOMMENDATIONS FOR STORAGE AND TRANSPORT

- ▶ The boards should always be handled by two persons, and transported vertically
- ▶ The transport of the boards on pallets shall be made with appropriate transport means (cart, fork lift, truck ...)
- ▶ Maximum 4 (four) pallets should be stored in a stack
- ▶ When storing the boards, the loadbearing capacity of the supporting floor element shall be taken into account
- ▶ The boards shall be stored in pallets or stacks with spacers every 600mm. The pallets and the stacks shall be stored on dry, smooth and horizontal surfaces. This type of storage allows ventilation and prevents deformation or tearing of the boards
- ▶ When stored outdoors, the boards should always be protected with a plastic film or a tarpaulin
- ▶ If the boards are exposed to water during the storage period, remove the protective film and allow the boards to dry thoroughly before use.
- ▶ The boards should be stored in the final location (installation area) at least 24 hours before starting the installation, for "acclimation".
- ▶ The boards should be dry before applying different treatments on their surface (base coat, adhesive ...). For example, it is not recommended to apply any coating immediately after rain
- ▶ The boards should be mounted in the temperature range of 5 - 40° C
- ▶ The long term storage for long periods in direct sun light is not recommended

## SAFETY MEASURES:

- ▶ The 1.2 m x 2.4 m x 8 mm Cementex board weights 34 kg
- ▶ The above mentioned weight includes a possible 15% moisture absorption, if the boards were stored in humid places
- ▶ It is recommended that the dust from Cementex boards cutting and drilling operations to be absorbed and collected using an efficient vacuum cleaner.
- ▶ During handling, cutting and drilling operations, the operator / installer should use appropriate tools and wear personal protection equipment: helmet, glasses, gloves, boots, FFP2 dust mask or more effective according to EN 149: 2001
- ▶ The boards should be cut and drilled in dry and ventilated areas
- ▶ The boards can be cut with an electric or manual saw
- ▶ To prevent the formation of permanent stains on the surface of the board, it is recommended that the dust from cutting and drilling operations is immediately removed, using a dry microfiber towel or by aspiration with efficient dust extraction and collection equipment (vacuum cleaner)
- ▶ To prevent boards vibration during cutting and drilling operations, they should be placed and fixed on a smooth and stable support



Fire reaction: A1

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# Cementex 10 mm

## Fiber-cement board



### DESCRIPTION:

Cementex is a flat fiber cement board, suitable for exterior and interior applications.

The boards are manufactured using Hatscheck technology followed by autoclaving, a process that provides optimal mechanical strength and dimensional stability.

The main elements the boards are made of are: cement, organic cellulose fibers, silica, additives and water.

### PERFORMANCES

Thickness	10 mm
Width	1200 mm
Length	2400 mm
Apparent density	≈ 1460 kg/m <sup>3</sup>
Board weight	≈ 14.60 kg/m <sup>2</sup>
Longitudinal and transversal profile edges	Straight (SE)
Classification according to EN 12467:2012+A1:2016	Category A: Boards designed for applications where heat, high moisture and severe freezing may occur.
Shape and nominal sizes tolerances	Level II
Mechanical resistance	Class 2, minimum tensile strength in humidity conditions > 7 MPa
Fire reaction class, according to EN 13501-1	A1
Water proof	Without water droplets on the unexposed side of the board
Freeze-thaw durability	RL ≥ 0.75, after 100 cycles
Hot water durability	RL ≥ 0.75
Heat-rain durability	No visible defects after 50 cycles
Immersion-drying durability	RL ≥ 0.75, after 50 cycles
Expansion due to variation in relative humidity	< 0.04% 0.40 mm/m
Emission of hazardous substances	NPD
Systems of attestation of conformity	System 3: Fire reaction SYSTEM 4 Other requirements
Resistance to airborne sound	Calculated for each system
Packaging	54 boards/ pallet. Pallet weight 2259 kg SAP Code: 146389 84 boards / pallet. Pallet weight 3486 kg SAP code 146391

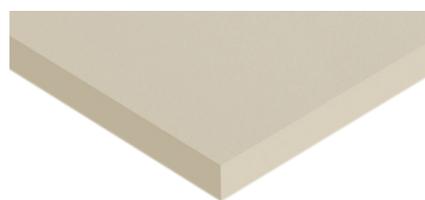
### AREAS OF USE

#### Interior applications

- ▶ Finishing systems placed in Medium and high relative humidity spaces, and support for ceramic tiles (swimming pools, spa, car washes, bathrooms, kitchens, unheated basements, parking lots, production areas, warehouses, public laundries)

#### Exterior applications

- ▶ Support for exterior walls multilayered thermal insulation, small and medium sized works for structural elements lining, balcony partitions, decorative elements, support for decorative finishing in systems that are not directly exposed to exterior weather conditions (suspended ceilings, soffits, eaves...)





Resistance to water



Technical performance



Durability

## RECOMMENDATIONS FOR STORAGE AND TRANSPORT:

- ▶ The boards should always be handled by two persons, and transported vertically
- ▶ The transport of pallets shall be made by appropriate means of transport (cart, fork lift, truck ...)
- ▶ Maximum 4 (four) pallets should be stored in a stack
- ▶ When storing the boards, the loadbearing capacity of the supporting floor element shall be taken into account
- ▶ The boards shall be stored in pallets or stacks with spacers every 600mm. The pallets and the stacks will be stored on dry, smooth and horizontal surfaces. This type of storage allows ventilation and prevents deformation or tearing of the tiles
- ▶ When stored outdoors, the boards should always be protected with a plastic film or a tarpaulin. If the boards are exposed to water during the storage period, remove the protective film and allow the boards to dry thoroughly before use
- ▶ The boards should be stored in the final location (installation area) at least 24 hours before starting the installation, for "acclimation".
- ▶ The boards should be dry before applying different treatments on their surface (base coat, adhesive ...). For example, it is not recommended to apply any coating immediately after rain
- ▶ The boards should be mounted in the temperature range of 5 - 40° C
- ▶ The long term storage for long periods in direct sun light is not recommended.

## SAFETY MEASURES:

- ▶ The 1.2 m x 2.4 m x 10 mm Cementex board weights 42 kg
- ▶ The above mentioned weight includes a possible 15% moisture absorption, if the boards were stored in humid places
- ▶ It is recommended that the dust from Cementex boards cutting and drilling operations to be absorbed and collected using an efficient vacuum cleaner.
- ▶ During handling, cutting and drilling operations, the operator / installer should use appropriate tools and wear personal protection equipment: helmet, glasses, gloves, boots, FFP2 dust mask or more effective according to EN 149: 2001
- ▶ The boards should be cut and drilled in dry and ventilated areas
- ▶ The boards can be cut with an electric or manual saw
- ▶ To prevent the formation of permanent stains on the surface of the board, it is recommended that the dust from cutting and drilling operations is immediately removed, using a dry microfiber towel or by aspiration with efficient dust extraction and collection equipment (vacuum cleaner)
- ▶ To prevent boards vibration during cutting and drilling operations, they should be placed and fixed on a smooth and stable support



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# Cementex 12 mm

## Fiber-cement board



### DESCRIPTION:

Cementex is a flat fiber cement board, suitable for exterior and interior applications.

The boards are manufactured using Hatscheck technology followed by autoclaving, a process that provides optimal mechanical strength and dimensional stability.

The main elements the boards are made of are: cement, organic cellulose fibers, silica, additives and water.

### PERFORMANCES

Thickness	12 mm
Width	1200 mm
Length	2400 mm
Apparent density	≈ 1460 kg/m <sup>3</sup>
Board weight	≈ 17.52 kg/m <sup>2</sup>
Longitudinal and transversal profile edges	Straight (SE)
Classification according to EN 12467:2012+A1:2016	Category A: Boards designed for applications where heat, high moisture and severe freezing may occur.
Shape and nominal sizes tolerances	Level II
Mechanical resistance	Class 2, minimum tensile strength in humidity conditions > 7 MPa
Fire reaction class, according to EN 13501-1	A1
Water proof	Without water droplets on the unexposed side of the board
Freeze-thaw durability	RL ≥ 0.75, after 100 cycles
Hot water durability	RL ≥ 0.75
Heat-rain durability	No visible defects after 50 cycles
Immersion-drying durability	RL ≥ 0.75, after 50 cycles
Expansion due to variation in relative humidity	< 0.04% 0.40 mm/m
Emission of hazardous substances	NPD
Systems of attestation of conformity	System 3: Fire reaction SYSTEM 4 Other requirements
Resistance to airborne sound	Calculated for each system
Packaging	47 boards/ pallet. Pallet weight 2357 kg SAP Code: 146392 73 boards/ pallet. Pallet weight 3633 kg SAP code 146393

### AREAS OF USE

#### Interior applications

- ▶ Finishing systems placed in Medium and high relative humidity spaces, impact resistant and support for ceramic tiles (swimming pools, spa, car washes, bathrooms, kitchens, unheated basements, parking lots, production areas, warehouse, public laundries...)

#### Exterior applications

- ▶ Support for decorative finishing in exterior walls multilayered thermal insulation, ventilated cladding, support for thermoinsulation, structural elements lining, balcony partitions, decorative elements ...





Resistance to water



Technical performance



Durability

## RECOMMENDATIONS FOR STORAGE AND TRANSPORT:

- ▶ The boards should always be handled by two persons, and transported vertically
- ▶ The transport of pallets shall be made by appropriate means of transport (cart, fork lift, truck ...)
- ▶ Maximum 4 (four) pallets should be stored in a stack
- ▶ When storing the boards, the loadbearing capacity of the supporting floor element shall be taken into account
- ▶ The boards shall be stored in pallets or stacks with spacers every 600mm. The pallets and the stacks will be stored on dry, smooth and horizontal surfaces. This type of storage allows ventilation and prevents deformation or tearing of the tiles
- ▶ When stored outdoors, the boards should always be protected with a plastic film or a tarpaulin
- ▶ If the boards are exposed to water during the storage period, remove the protective film and allow the boards to dry thoroughly before use
- ▶ The boards should be stored in the final location (installation area) at least 24 hours before starting the installation, for "acclimation".
- ▶ The boards should be dry before applying different treatments on their surface (base coat, adhesive ...). For example, it is not recommended to apply any coating immediately after rain
- ▶ The boards should be mounted in the temperature range of 5 - 40° C
- ▶ The long term storage for long periods in direct sun light is not recommended.

## SAFETY MEASURES:

- ▶ The 1.2 m x 2.4 m x 12 mm Cementex board weights 51 kg
- ▶ The above mentioned weight includes a possible 15% moisture absorption, if the boards were stored in humid places
- ▶ It is recommended that the dust from Cementex boards cutting and drilling operations to be absorbed and collected using an efficient vacuum cleaner.
- ▶ During handling, cutting and drilling operations, the operator / installer should use appropriate tools and wear personal protection equipment: helmet, glasses, gloves, boots, FFP2 dust mask or more effective according to EN 149: 2001
- ▶ The boards should be cut and drilled in dry and ventilated areas
- ▶ The boards can be cut with an electric or manual saw
- ▶ To prevent the formation of permanent stains on the surface of the board, it is recommended that the dust from cutting and drilling operations is immediately removed, using a dry microfiber towel or by aspiration with efficient dust extraction and collection equipment (vacuum cleaner)
- ▶ To prevent boards vibration during cutting and drilling operations, they should be placed and fixed on a smooth and stable support



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# System Components

▲ Cementex boards are installed using products from Siniat range:

Hydropanel HP self-drilling screws



FlatHead 4.2x13mm AP screws, C4 class



NIDA Metal UA Profile



NIDA Metal CD ZN275 Profile



NIDA Metal UD30 ZN275 Profile



Nonius ZN 275 accessories



Fiber glass reinforcing tape



Single sided adhesive tape



# AREAS OF USE:

## INTERIOR

### ■ Cementex 8 mm

- > Suspended ceilings and finishing systems located in areas with average relative humidity (bathrooms, kitchens, basements, production areas, warehouses, public laundries...)

### ■ Cementex 10 mm

- > Finishing systems located in areas with average and high relative humidity, substrate for ceramic linings (swimming pools, spa, car wash, bathrooms, kitchens, unheated basements, parking lots, production areas, warehouses, public laundries ...)

### ■ Cementex 12 mm

- > Finishing systems located in areas with average and high relative humidity, impact resistant and substrate for ceramic linings (swimming pools, spa, car wash, bathrooms, kitchens, unheated basements, parking lots, production areas, warehouses, public laundries ...)

## EXTERIOR

### ■ Cementex 8 mm

- > support for decorative finishing in systems not directly exposed to exterior weather conditions (suspended ceilings, eaves, soffits...)

### ■ Cementex 10 mm

- > support for exterior multilayered walls with thermal insulation, small and medium sized works for structural elements lining, balcony partitions, decorative elements, support for decorative finishing in systems that are not directly exposed to exterior weather conditions (suspended ceilings, soffits, eaves...)

### ■ Cementex 12 mm

- > support for decorative finishing in exterior multilayered walls thermal insulation, ventilated cladding, support for thermoinsulation, structural elements lining, balcony partitions, decorative elements...



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