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PANDA

佩达 PEIDA Super
CEILING&PARTITION

广州佩达商贸发展有限公司
GUANGZHOU PANDA COMMERCIAL DEVELOPMENT CO.,LTD.

Fiber Cement Board





Guangzhou Panda Commercial Development Co., Ltd. is a professional enterprise producing indoor and outdoor fiber cement board including Fiber Cement Compressed Flat Sheet, Fiber Cement Siding, Wood Grain Fiber Cement Siding, Colored Fiber Cement Board etc.

Our company has been established in 2007, after many years, it has been developed a classic industrial image and excellent reputation in fiber cement board industry. The Guangzhou Panda Commercial Development Co., Ltd. Occupies an area of 50000m^2. Our export building materials do not contain any asbestos. We control the product quality strictly and focus on the environmental protection.

Guangzhou Panda has certified the ISO9001-2000 certification from SGS--an international organization offering certificates up to the standard for the design and manufacture of Non-asbestos Fiber Cement Board. We certified the China Environmental Labeling Product Certificate.

"To perfect the technology to provide fast, accurate and satisfactory service" is our goal.

Company culture:

1)Quality Concept: Honest, Perfect

2)Management Philosophy: Excellent Employees, Model Enterprises

3)Service concept: unremitting pursuit of perfection

4)Marketing Concept: Quality creates brand, manages open market.

5)Competition Concept: A market without competitors is a market without a future. Respecting your opponent is protecting yourself

6)Corporate mission: promote healthy living and build green homes.

7)Corporate purpose: Environmental protection

www.pandamanufacturer.com

佩达 PEIDA Super
CEILING&PARTITION

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Fiber Cement Board





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Production Feature

Fiber Cement Board

BENEFITS OF FC FIBRE CEMENT BOARD

Weather resistant + Immune to water damage + Fire resistant + Moisture resistant and waterproof + Provides sound insulation + Shatter resistant

Low shrinkage + Flexible + High degree of workability + Termite resistant + High Strength + Low Maintainance





MATCHING THE DEMANDS OF MODERN APPLICATIONS

FC board is a non-asbestos fiber-cement product of Portland cement, cellulose fiber and refined sand.

Using a special manufacturing process called autoclave, FC board acquires the strength, durability of cement and easy workability of wood as well as dimensional stability.

A non-combustible multi-purpose application fiber-cement flat board, FC board comes with various thickness which are suitable for various applications, ceiling, wall and floor.

It can be used for both exterior and interior applications. FC boards can perfectly be calibrated and then laminated or coated with other materials, such as eg. wood veneer.

BUILDING MATERIAL CLASS

FC boards are`non-combustible` and correspond to materials in building material class A2-s1, d0(s1=no smoke, d0=no combustible drips), in accordance with EN13501-1

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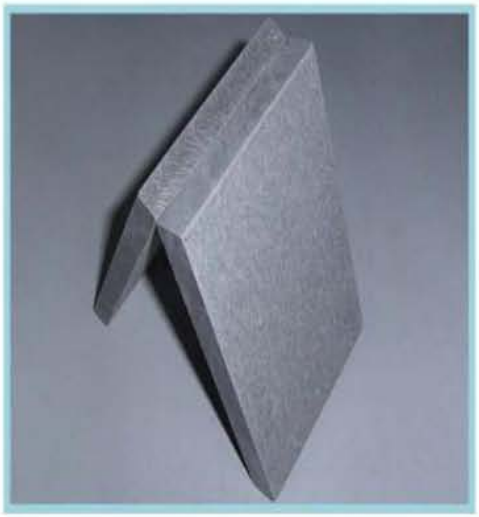
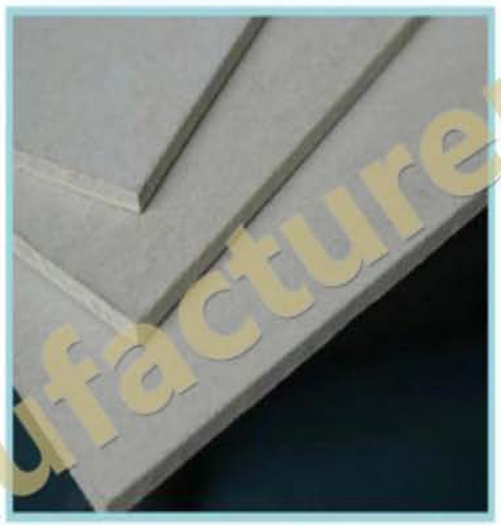
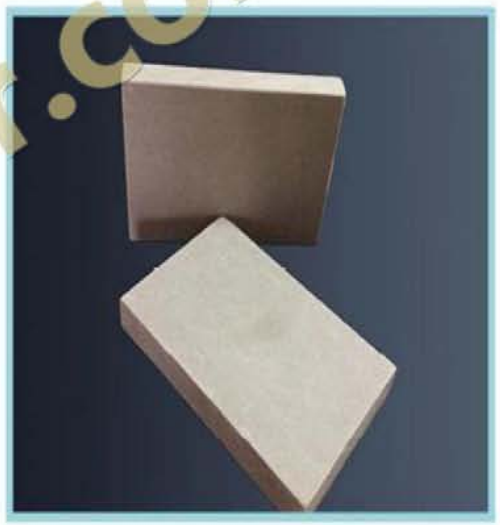
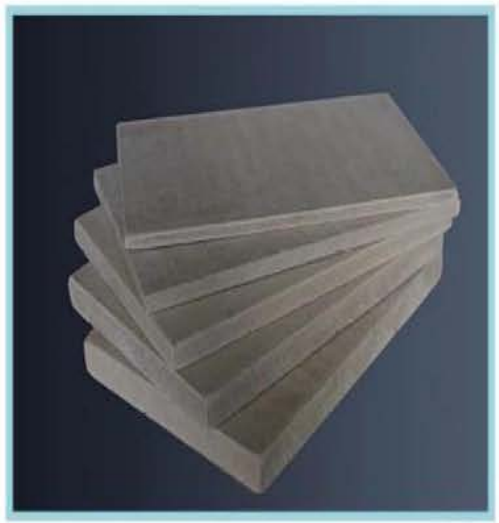
Specification
Fiber Cement Board

FC MIDDLE DENSITY FIBER CEMENT BOARD






FC HIGH DENSITY CELLULOSE FIBER CEMENT COMPRESSED FLAT SHEET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Specification
Fiber Cement Board

Middle Density FC Board Specification

Performance index		Standard index	Test result
Density		1.2 < D ≤ 1.4 g/cm³	1.35 g/cm³
Water absorption		≤ 30%	29%
Wet expansion		≤ 0.23%	0.2%
Incombustibility		Incombustible Class A1	
Water penetration		Back side without water drop after 24 hrs	
Modulus of rupture	Air dried condition	≥ 12 Mpa	15 Mpa
	Saturated condition	≥ 8 Mpa	12 Mpa

Applications

Size (mm)	Thickness (mm)	Edge Profile	Application
Width: 900/1200/1220 Length: 1800/2400/2440/3000	4.5	Square-cut edge	Internal cladding
	6	Square-cut edge/ Recessed edge	Internal External ceiling
	8	Square-cut edge/ Recessed edge	Internal partition External wall cladding Wet area and tile backing Floor underlay
	9,10	Square-cut edge	External wall cladding Wet area and tile backing Floor underlay
	12	Square-cut edge/ Recessed edge	External wall cladding Wet area and tile backing Floor underlay
	15	Square-cut edge	Internal partitions with special requirements Elevated Floor
	18	Square-cut edge	Internal partitions with special requirements Elevated Floor
	20	Square-cut edge	Internal partitions with special requirements Elevated Floor

High Density FC Board Specification

Performance index		Standard index	Test result
Density (g/cm³)		1.4 < D ≤ 1.6	1.54
Water absorption (%)		≤ 25	17.8
Wet expansion (%)		≤ 0.23%	0.15
Incombustibility		Incombustible Class A1	
Water penetration		Back side without water drop after 24 hrs	
Modulus of rupture	Air dried condition	≥ 18 Mpa	20.1 Mpa
	Saturated condition	≥ 14 Mpa	15.0 Mpa
Frost resistance		No layers and no cracks after 25 cycles under freezing and thawing	
Radioactivity		Decorative materials Class A	
Asbestos		100% free of asbestos	

Application And Performance Advantages

Application		Performance advantages
Exterior wall	Exterior decoration panel	Surface flat and smooth, can meet higher requirement for coating
	Integrative facade panel for exterior wall thermal insulation	
Flooring	Loft interlayer	High strength and toughness
	Container house	
	Light steel villa	
Other application	Subway/Tunnel/Baseboard	High strength and toughness, large size, smooth surface, and easy for surface treating
	Outdoor furniture	
	Thinner lining board for Stone	Decorative materials Class A
Interior wall decoration panel		Easy for different surface processing, like UV, Polyester, Inorganic,Marbling etc.

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Specification

Edge	Taper	Beveled	Square
Standard Size	1200 X 2400 mm / 1220 X 2440 mm		
Max. Width	1220 mm		
Max. Length	3050 mm		
Thickness	4.5 mm ~ 24 mm		
Remarks	Different dimension can be made as required.		

Technical Parameter

Item	Unit	Test Value
Raw Materials	/	Cement, Quartz Sand, Fiber
Density	g / cm ³	1.35 ± 0.01 ~ 1.60 ± 0.01
Color	/	Grey / White / Black / Yellow / Light Green / Brick Red
Water Content	/	≤ 10
Water Absorption	/	≤ 28
Fire Resistance	/	Incombustibility A1 Class
Thermal Conductivity	W / m k	Average ≤ 0.20
Bending Strength	N / mm³	Transverse ≥ 11.0
		Vertical ≥ 8.5
Radioactivity	/	Conforming to GB6266-2001 A Class
Asbestos Content	/	100% Asbestos-free
Freeze Resistance	/	25 Times Cycle
Certificate	/	SGS / CE / ISO
Packing	/	Wooden Pallet

Edge Compared:

Taper



Beleved





Square

www.pandamanufacturer.com

佩达·纤维水泥板（中密度）

PANDA · Fibre Cement Board (Middle Density)

产品技术参数 Product Technical specifications

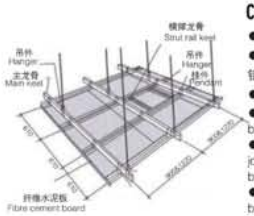
规格与外观 Specifications and Exterior appearance	厚度规格 Thickness	4–22mm	
	标准规格 Specifications	2440 × 1220mm	
	基本误差 Tolerance	长、宽度： ±3mm 厚度： ±0.2mm 边缘平直度：<2mm/m 对角线最大误差：≤5mm Length,width: ±3mm Thickness: ±0.2mm Edge straight: <2mm/m Opposite angle line: ≤5mm	
	外观 Exterior appearance	直角、两边倒角、四边倒角、两边倒45° 角、四边倒45° 角 Right angle,chamfer angle for both sides,chamfer angle for four sides,45° chamfer angle for both sides,45° chamfer angle for four sides	
基本力学性能 Basic mechanical property	密度 Density	不低于1.2g/cm³（在EMS状态下） No less than 1.2g/cm³ (Under EMS statement)	卓越特点 Excellent characteristics：高强防火、降低建筑负荷、增加楼层使用面积、安装方便 Ultra-fireproofing,Reduce the load of building, Increase the net area of each floor,Easy installation
	抗折强度 Bending strength	纵向10.5MPa Portrait 10.5Mpa 横向12MPa Landscape orientation 12MPa	
	湿胀胀率 Moisture movement	≤0.25%	
	螺钉拔出力 Pullout force of Screw	>70N/mm²	
	含水率 Typical moisture content	≤10%（在EMS状态下） ≤10% (Under EMS statement)	
	不燃性能 Noncombustible performance	按GB8624–1997判定，燃烧性能达到不燃A1级的要求 According to GB8624–1997, Combustibility is A1 Class.	

产品应用示范 The lead of product applications

（一） 纤维水泥板应用于吊顶 Fiber Cement Board for ceiling

纤维水泥板可与多种类型的龙骨配套使用，形成多种不同的吊顶系统，由于具有简单易装、组合灵活、功能优异等特点，能满足多样化建筑创意和美学的技术要求。实践证明，长期应用在潮湿的环境中仍不会变形和下坠。特别在防潮、防霉、不开裂、使用寿命等方面明显优于石膏板和夹板。

Fiber Cement boards can be matched with many types of keels to make lots of different ceiling systems. They can satisfy the creative and aesthetical diversity of technical requirements for many buildings, due to characteristics such as simple and easy installation, adaptability in usage and excellent material strength.Practical tests done have proven that Fiber cement boards don't deform and fall when they were used in humid environments over a long period of time. Fiber cement boards are better than gypsum board and plywood in aspects such as moisture resistance, mold resistance, cracking resistance and useful life.



C60/C50吊顶系统 C60 / C50 ceiling system

- 在C60/C50吊顶安装时，龙骨的末端与墙体之间留10mm的空隙；
- 安装大面积吊顶时，当主龙骨需加长，主龙骨与主龙骨之间接驳处必须交错排列，龙骨必须向同一方向排列；
- 板材必须垂直于次龙骨铺设，并使板材宽度方向为交错式接缝。
- When the C60/C50 ceiling system is installed, there should be 10mm gap left between the end of the keel and the wall.
- The main keel should be lengthened when you install large acreage ceiling.The joint between the two main keels should be staggered form and the keels must be arranged in the same direction.
- Boards must be arranged perpendicularly to the sub keel and the wide side of boards must be staggered joint.



T型龙骨吊顶系统 T keel ceiling system

- –重量轻、强度高；
- –不变形、不褪色；
- –不燃、防潮、吸音；
- –遇火灾时不会产生有毒气体；
- –图案精美，色泽多样；
- –不会产生冷凝水珠，耐久性好
- –直接使用安装快捷。

- –Light weight and hard strength;
- –Not deformed and matted;
- –Noncombustible,moistureproof,sound absorption;
- –No poisonous gas when there is a fire;
- –Beautifully designed,Diversity of colour choices;
- –No condensational bead, good durability;
- –Use directly and fast installation.



Middle-density
Fiber Cement Board

自撑式吊顶系统

该系统是将隔墙系统应用于吊顶上的形式，主要使用于窄小房间或走廊吊顶，从而充分体现出以下优点：

- 吊顶不受楼底变化的影响；
- 无需使用吊挂件、安装更为快捷；
- 为管道的安装提供了一个完全畅通的空间
- 吊顶可以无限接近楼底，充分利用空间；
- 防火、防尘、隔热等效果更好；



Self-supporting ceiling system

This system is a form as partation system applicable to ceiling system,mainly used in narrow and small room or corridor ceiling,so as to embody the following advantages:

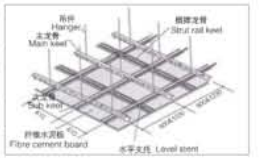
- The ceiling is not affected from the changeable of the floor bottom;
- No need to use hanging pendant,quicker and more convenient installation;
- Provide a completely unimpeded space for pipeline installation;
- Ceiling can be unlimitedly closed to the bottom of floor and make full use of the space;
- Better Fireproof,dustproof and thermal insulation;

直卡式槽型龙骨吊顶系统

Aligning channeled keel Ceiling System

- 龙骨系统结构为直卡组合而成，无需使用龙骨吊件、挂件等配件；
- 主龙骨所设的准确等距卡口，使次龙骨迅速的与主龙骨组合，所以该系统安装简单、快捷、提高工作效率。
- 次龙骨间距可随意调配，满足特殊场所的要求
- 自重轻、整体抗震性好、平整度高，适用于大面积吊顶；
- 不变形、防火、保温，不会产生冷凝水水珠；
- 可充分利用建筑层高，楼层与吊顶的最小净高为100mm。

- The structure of keel system is made up by direct-stuck groups.And it is not necessary to use keel hanger and other accessories.
- The Bayonet of the key keel is equidistant.Joins the sub keel and key keel fast.This system is easy and fast to install, which increases the work efficiency.
- To satify the requests of special occasions, you can adust the intervals of the sub keel.
- Light-weight, good earthquake resistance,High flatness and is suitable for largeacreage ceiling system.
- Non-deforming,fireproof, heat-retaining,no condensational bead.
- Can be made full use of building story height,and the minimal clear height between the floor bottom and the ceiling is 100mm.



（二） 纤维水泥板应用于隔墙

The application of fiber cement borad on partition

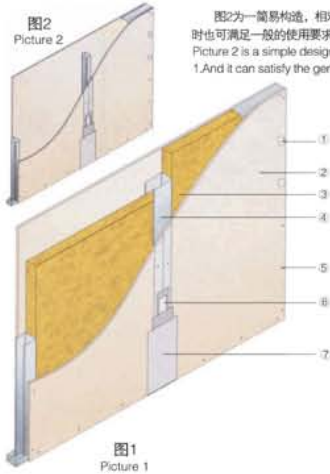
纤维水泥板可与不同类型的龙骨配合使用，可构成标准隔墙、隔声墙等。

Fiber cement board can be matched with all kinds of keels together and consisted of standard partition, soundproof partition and so on.

图2 Picture 2

图2为一简易构造，相对于图1做法，其成本较低，同时也可满足一般的使用要求。

Picture 2 is a simple design,which cost is less than picture 1.And it can satisfy the general using requirements.



① 钉头修补
② 纤维水泥板
③ 岩棉填充物
④ 轻钢龙骨
⑤ 自攻螺钉
⑥ 穿孔纸带
⑦ 填缝料

① Nail head patch
② Fiber cement board
③ Packed rock wool
④ Lightgage steel keel
⑤ Tapping screw
⑥ Perforated paper tape
⑦ Joint material

图1 Picture 1

图1为一普通隔墙示意图，隔墙由纤维水泥板、轻钢龙骨、填充岩棉和其它配件组成。此构造可满足各类不同的要求，如防火、隔音、保温要求较高的墙体。

Picture 1 is a normal partation system,wich is made up by fiber cement board, lightgage steel keel,packed rock wool and other accessories.This design can satisfy different demanding of wall,such as fire proofing, sound proofing,thermal and etc.







图3 Picture 3

图3为一贴面墙应用，用轻钢龙骨将板材固定于旧的墙体之上，用于墙体表面的翻新或隔声防火要求较高的隔墙。

Picture 3 is an application of furring wall. Fix the board on the old wall with the lightgage steel keel to retread the old wall or the partation which is demanding on soundproof and fireproof request.

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佩达纤维水泥板（高密度）

PANDA · Fibre Cement Board (High Density)

产品技术参数 Product Technical specifications

规格与外观 Specifications and Exterior appearance	厚度规格 Thickness	4-22mm
	标准规格 Specifications	2440 × 1220mm
	基本误差 Tolerance	长、宽度：±/3mm 厚度：±/0.2mm 边缘平直度：<2mm/m 对角线最大误差：≤5mm Length,width: ±/3mm Thickness: ±/0.2mm Edge straight: < 2mm/m Opposite angle line: ≤5mm
	外观 Exterior appearance	直角、两边倒角、四边倒角、两边倒45°角、四边倒45°角 Right angle,chamfer angle for both sides,chamfer angle for four sides,45° chamfer angle for both sides,45° chamfer angle for four sides

基本力学性能 Basic mechanical property	密度 Density	不低于1.3g/cm³(在EMS状态下) No less than 1.3g/cm³ (Under EMS statement)	卓越特点 Excellent characteristics	高强防火、 降低建筑负荷、 增加楼层使用面积、 安装方便 Ultra-fireproofing,Reduce the load of building, Increase the net area of each floor,Easy installation
	抗折强度 Bending strength	纵向12MPa Portrait 12Mpa　横向14MPa Landscape orientation 14MPa		
	湿胀胀率 Moisture movement	≤0.20%		
	螺钉拔出力 Pullout force of Screw	>70N/mm²		
	含水率 Typical moisture content	≤10%（在EMS状态下） ≤10% (Under EMS statement)		
	不燃性能 Noncombustible performance	按GB8624-1997判定，燃烧性能达到不燃A1级的要求 According to GB8624-1997, Combustibility is A1 Class.		

产品应用示范 The lead of product applications

（一） 纤维水泥板应用于外墙 Fiber Cement board for Exterior wall system

外墙系统特性 Characteristics of Exterior wall system



保护建筑物的主体结构 Protect the major structure of building



减少室内外的热交换 Reduce the indoor and outdoor heat exchange



防止冷凝水 Resist to condensation tread



降低太阳的辐射热 Reduce the radiant heat from the sun

图1为一普通外墙示意图，纤维水泥板安装于外墙高强度镀锌轻钢龙骨上，骨架通过调节支座与建筑结构相连，在系统的空腔中可以直译保温材料，保温材料与板背面有一不小于30mm的流动空气层。

纤维水泥板外墙系统适用于多层建筑物的外墙装修或外墙改造翻新，建筑物的外墙外保温，建筑物的轻质加层外墙保温装饰等，同时在一些特殊的建筑外部也可应用。

Picture 1 is a normal exterior wall system.Fiber cement board is installed on the high strength galvanization lightgage steel keel.Framework connects with the building structure by regulating support. You can fill heat insulating material in the gap of the system and there should be a 30mm gap left for air flow.

Exterior wall system of fiber cement board can be used for refurbishment or decoration of the wall on the building with many floors,outer thermal insulation of the exterior wall on the building,thermal insulation or decoration of the light weight storey on the building. It can be used on the external part of some special building as well.

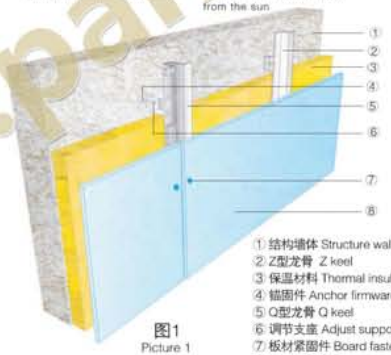

图1
Picture 1

① 结构墙体 Structure wall
② Z型龙骨 Z keel
③ 保温材料 Thermal insulation material
④ 锚固件 Anchor firmware
⑤ Q型龙骨 Q keel
⑥ 调节支座 Adjust support
⑦ 板材紧固件 Board fastener
⑧ 纤维水泥板 Fiber cement board

（二） 纤维水泥板应用于隔墙 The application of fiber cement board on partition

纤维水泥板可与不同类型的龙骨配合使用，如C型轻钢龙骨、木龙骨等。
Fiber cement board can be matched with all kinds of keels together,such as C type lightgage steel and wooden keel etc.



① 钉头修补
② 纤维水泥板
③ 岩棉填充物
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① Nail head patch
② Fiber cement board
③ Packed rock wool
④ Lightgage steel keel
⑤ Tapping screw
⑥ Perforated paper tape
⑦ Joint material

图2
Picture 2

图2为一普通隔墙示意图，隔墙由纤维水泥板、轻钢龙骨、填充岩棉和其它配件组成。此构造可满足各类不同的要求，如防火、隔音、保温要求较高的墙体。

Picture 2 is a normal partation system,wich is made up by fiber cement board, lightgage steel keel,packed rock wool and other accessories.This design can satisfy different demanding of wall,such as fire proofing, sound proofing,thermal and etc.





图3
Picture 3

图3为一简易构造，相对于图2做法，其成本较低，同时也可满足一般的使用要求。

Picture 3 is a simple design,which cost is less than picture 1.And it can satisfy the general using requirements.



图4
Picture 4

图4为一贴面墙应用，用轻钢龙骨将板材固定于旧的墙体之上，用于墙体表面的翻新或隔声防火要求较高的隔墙。

Picture 4 is an application of furring wall. Fix the board on the old wall with the lightgage steel keel to retread the old wall or the partation which is demanding on soundproof and fireproof request.

（三） 纤维水泥板应用于洗手间隔墙 The application of Fiber cement boards on Washroom partition

纤维水泥板经高温蒸压养护，在长期潮湿的环境下可保持稳定，不会发生变形，发霉或强度损失。是浴室、卫生间、洗衣房等潮湿区域且强面需贴瓷砖的实用基层。

瓷砖可通过瓷砖胶直接粘贴于高密度纤维水泥板上。板材与轻钢龙骨组成隔墙的基材，如图5为一隔墙组成简图。

纤维水泥板隔墙的构造与普通的轻钢龙骨隔墙不同，面砖的重量较大时墙体需加强。

Because of the special craftsmanship of fiber cement board, it is stable, nondeformable, mildewproof and it will not loss sthengh when it is used in a moist environment for a long time. Therefore, it becomes the ideal product of bathroom,washroom and laundry room which needs to fix the ceremic tile on the wall. Ceramic tile can be fixed on the hight density fiber cement board through glue for tile. Base material of this partation is made up with board and lightgage steel keel. Picture 5 is a sketch plan of partition. special building external can also be used.

Partition of fiber cement board is different from normal lightgage steel keel partition.Wall should be strengthened when the front brick is too heavy.



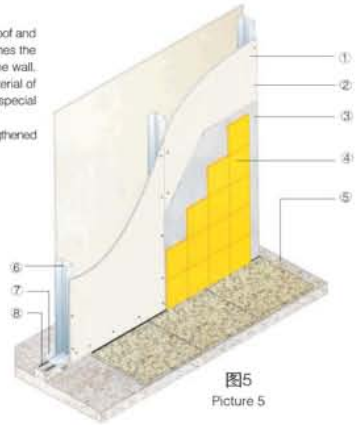

图5
Picture 5

① 纤维水泥板 ② 板材紧固件 ③ 瓷砖胶 ④ 瓷砖
⑤ 地面 ⑥ 竖龙骨 ⑦ 天地龙骨 ⑧ 防水条
① Fiber cement board ② Board fastener ③ Glue for tile
④ Ceramic tile ⑤ Ground ⑥ vertical keel
⑦ Heaven and earth keel ⑧ Waterproof strip

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Colored
Fiber Cement Board



Normal Grey



Black & White



Colored



Wood Grain





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Colored
Fiber Cement Board

佩达·锦壁板
PANDA·Kimbeck External Board

纤维水泥压力挂板

Fiber cement pressure hanging board

经高温蒸压处理，板材的颜色表里如一，具有优越的性能和外观。

With high temperature and high pressure treatmentjthe colour of the board,each outside and inside is in the same way.There are excellent performances and exterior appearances.

产品技术参数 Product Technical specifications

规格与外观 Specifications and Exterior appearance	厚度规格 Thickness	9、12mm
	标准规格 Specifications	2440 × 1220mm
	基本误差 Tolerance	长、宽度：±/3mm 厚度：±/0.2mm 边缘平直度：<2mm/m 对角线最大误差：≤5mm Length,width: ±/3mm Thickness: ±/0.2mm Edge straight: < 2mm/m Opposite angle line:≤5mm
	外观 Exterior appearance	精磨 Fine grinding

基本力学性能 Basic mechanical property	密度 Density	不低于1.45g/cm³(在EMS状态下) No less than 1.45g/cm³ (Under EMS statement)	卓越特点 Excellent characteristics	高强防火、防水，颜色表里如一，降低建筑负荷，安装方便 High strength fireproof, waterproof,and the colour of each outside and inside is in the same way,reduce the load of building and easy installation.
	抗折强度 Bending strength	纵向12MPa Portrait 12Mpa　横向14MPa Landscape orientation 14MPa		
	湿膨胀率 Moisture movement	≤0.20%		
	螺钉拔出力 Pullout force of Screw	>70N/mm²		
	含水率 Typical moisture content	≤10%（在EMS状态下） ≤10% (Under EMS statement)		
	不燃性能 Noncombustible performance	按GB8624-1997判定，燃烧性能达到不燃A1级的要求 According to GB8624-1997, Combustibility is A1 Class.		

产品特点介绍 Product features introduction

锦壁板是经高温蒸压处理的纤维水泥压力板材，板材的主要原材料为波特兰水泥、石英粉、植物纤维、天然矿物颜料、防水材料和天然矿物质，板材100%不含石棉或其它有害物质。板材的颜色表里如一，在恶劣的环境中使用时性能稳定。

Kimbeck External Board is fiber cement pressure board with high temperature and high pressure process, which is made up by portland cement, quartz powder, plant fiber, natural mineral pigment, waterproof materials and natural mineral materials. It is a new type environmental construction material with 100% asbestos-free or any other harmful substances.The colour of the board,each outside and inside is in the same way. Their performances are stable when using in bad environment.



锦壁板系统的优势
The advantages of Kimbeck External Board

- 采用天然的矿物颜料，颜色表里如一，在室外或恶劣的环境中颜色稳定不褪色。不需要维护，板材颜色历史长新；
- 环保，板材100%不含石棉，无有害物质；
- 防水，板材的表面使用了特殊的防水处理；
- 抗冻融，抗霜冻；
- 防火，强度高，耐冲击，可抵抗强风压或其它冲击。

- It is made up by natural mineral pigment.The colour of the board, each outside and inside is in the same way. Its colour is stable and fastness when using in outdoor or in the bad environment.With no maintenance,the colour of the board will be new all the time.
- It is a new type environmental construction material with 100% asbestos-free and no toxic substances.
- Waterproof,the surface of the board is used a special waterproofing treatment.
- Freezing-thawing resistance, Frost resistance.
- Fireproof,High strength,Impact resistance,can resist to strong wind pressure or any other impacts.

表面水滴效果
The effect of water droplets on the surface

锦壁板的表面使用了特殊的防水处理，雨水或液体在板材的表面会呈水珠状，当使用在建筑室外时，水份可以迅速流走，这样可以减少板面被污染的可能性。



The surface of Kimbeck External Board is used a special waterproofing treatment.The rain or liquid is like droplet on the board's surface. When using for the outdoor building, moisture will flow away quickly.So it will reduce the possibility of surface pollution.

产品的应用 product application

锦壁板可以广泛地应用于各类商业建筑、住宅或工业建筑物的外墙装饰、外墙翻新、外墙节能系统等。锦壁板也可使用在室内的装饰，如墙面、地下室、地铁或潮湿区域等。

Kimbeck External Board is applicable to the decoration,renovation and energy-saving system of exterior walls in commercial buildings, residential buildings industrial buildings.Kimbeck External Board is also used for the indoor decoration of the wall,basement,subway or damp areas and so on.













重要说明：由于印刷或照片拍摄的原因，锦壁板板材的颜色与实际可能存在差别，在工程中选用时，板材颜色请以实际的样板为准。

Important instructions:Due to the reason on print and photograph,there may be a few differences compare to the actual colour of Kimbeck External Board. Please take the actual colour as the standard when using in the projects.

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Wall Installation Guide

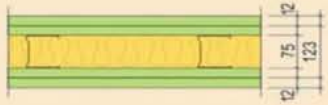
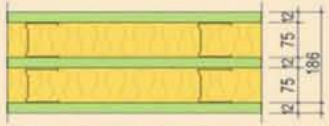
Fiber Cement Board

Acoustic Performance

Building Category	Partition Areas	Rw (dB)			
		Extra Grade	Grade A	Grade B	Grade C
Dwelling Houses and Schools	Separating Walls, Floor Slab		≥50	≥45	≥40
	Partition Wall, Floor Slab		≥50	≥45	≥40
Hospitals	Wards		≥45	≥40	≥35
	Wards / Nosy Rooms		≥50	≥50	≥45
	Wards / Operating Rooms		≥50	≥45	≥40
	Operating Rooms / Nosy Rooms		≥50	≥50	≥45
	Exterior Protected Construction for Listening Rooms		≥50	≥50	≥50
Hotels	Guest Rooms	≥50	≥45	≥40	≥40
	Guest Rooms / Corridor (including door)	≥40	≥40	≥35	≥30
	External Walls of Guest Rooms (including windows)	≥40	≥35	≥25	≥20



Acoustic Performance of Internal Walls

Systems Structure	Rw (dB)	Structure Description
	47dB	 1. Two side, single layer, 8mm TITAN board 2. Q75 light steel channel, at center 610mm 3. 75mm, 100kg/m3 rock wool infill
	51dB	 1. Two side, single layer, 12mm TITAN board 2. Q100 light steel channel, at center 610mm 3. 100mm, 100kg/m3 rock wool infill
	55dB	 1. Two side, single layer, 12mm TITAN board 2. Q175 light steel channel, at center 610mm 3. 75mm, 100kg/m3 rock wool infill
	55dB	 1. Three side, single layer, 12mm TITAN board 2. Q50/Q75 light steel channel, at center 610mm 3. 75mm, 100kg/m3 rock wool infill

1. **PANDA** Fiber Cement Board
2. Light Steel Channel
3. Rock Wool

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Wall Installation Guide

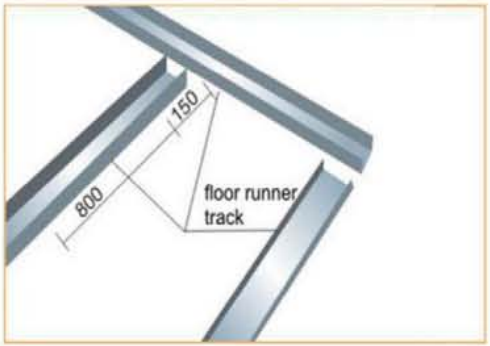
Fiber Cement Board

Installation for Light Steel Channel Frame

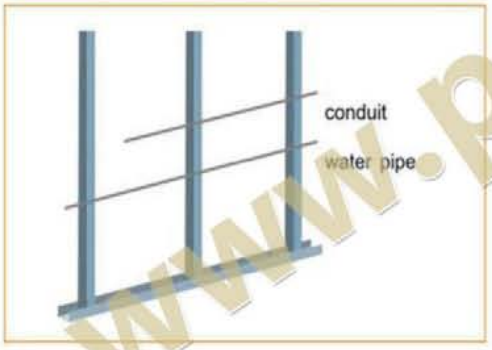
1. Clean the areas for channel installation;
2. Marks the lines for channel installation, doors and windows opening and services embedment;
3. Cutting channels in accordance with application requirement;
4. Install runner tracks, 150mm max fastener edge distance, at center 800mm max;
5. Install frame channels, 150mm max fastener edge distance, at center 800mm max;
6. Install furring channels between runner tracks, at center 610mm;
7. Install transverse bracings;
8. Channels are fixed by rivets or keel clamps;
9. Concealed services are embedded;
10. Install **PANDA** board

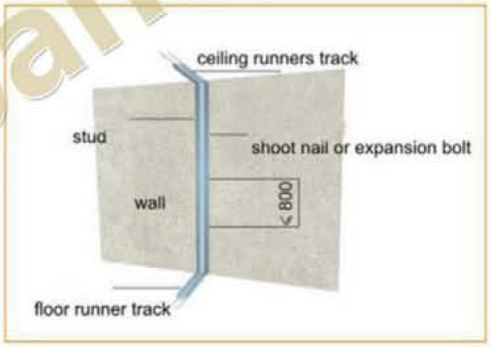


1 Stud
2 Track

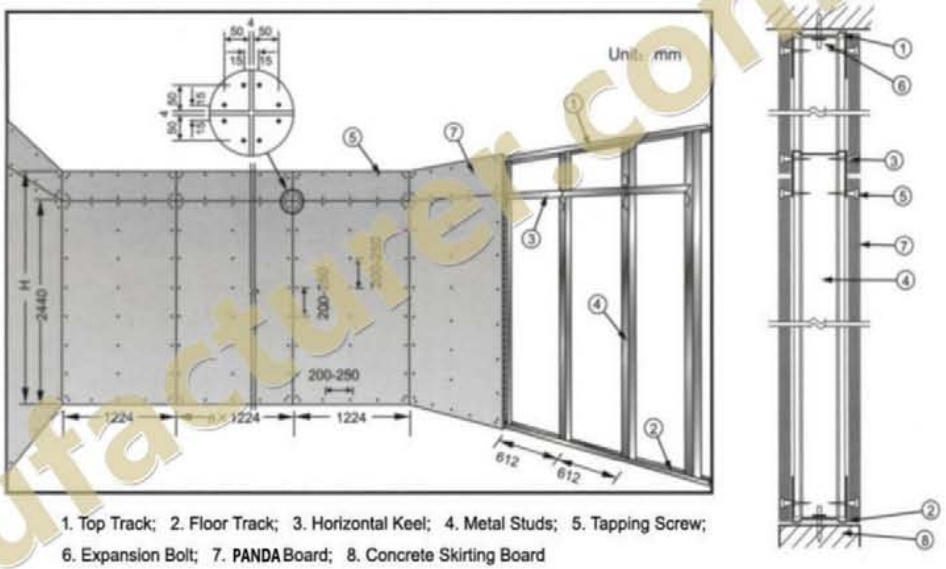




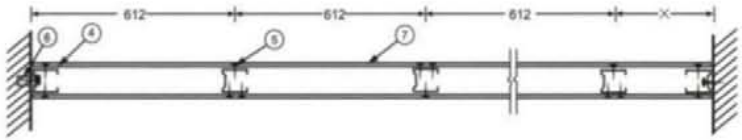




Installation for Drywall systems



1. Top Track; 2. Floor Track; 3. Horizontal Keel; 4. Metal Studs; 5. Tapping Screw; 6. Expansion Bolt; 7. **PANDA** Board; 8. Concrete Skirting Board



1. Cutting the sheet and hole to the appropriate size in accordance with requirement;
2. Marks the center of the holes on the sheet, prd-drill a hole for self-tapping screw;
3. Using the hole as a guide, fix the board on the channels with 15mm fastener edge distance and 50mm corner distance at center 200-250mm;
4. Sheets are fixed by self-tapping screws, laying sheets across framing is preferred, countersink hole to a depth of 1mm.



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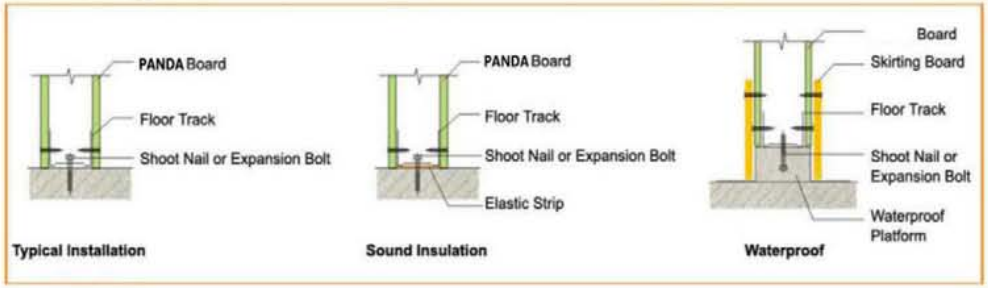
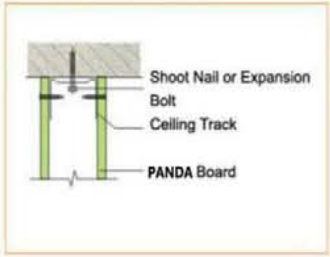
Wall Installation Guide

Fiber Cement Board

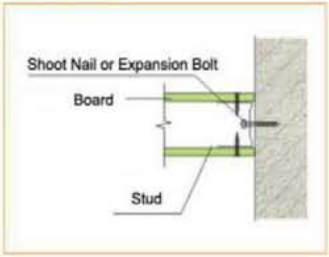
Ground Fixing Details



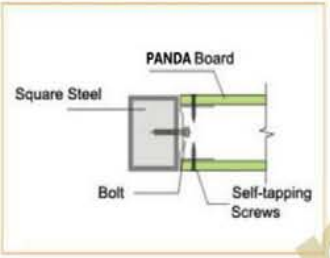
Head Fixing Details



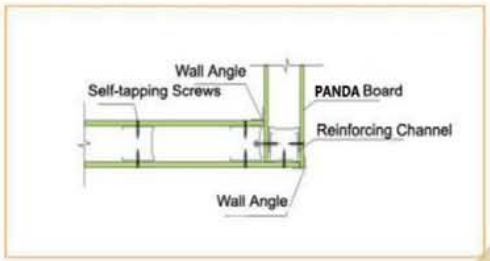
T Wall Joint



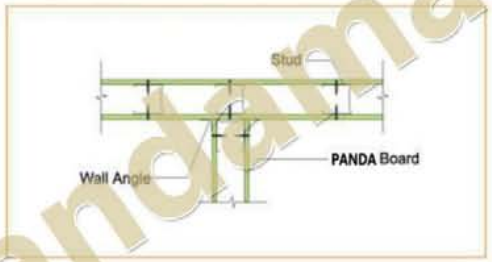
Steel Fixing Details



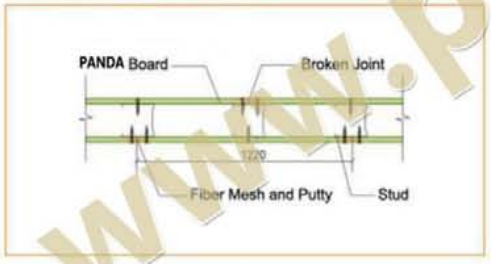
L Wall Joint



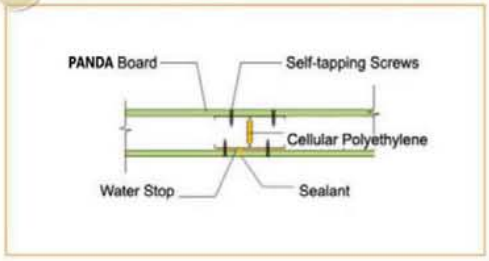
T Wall Joint



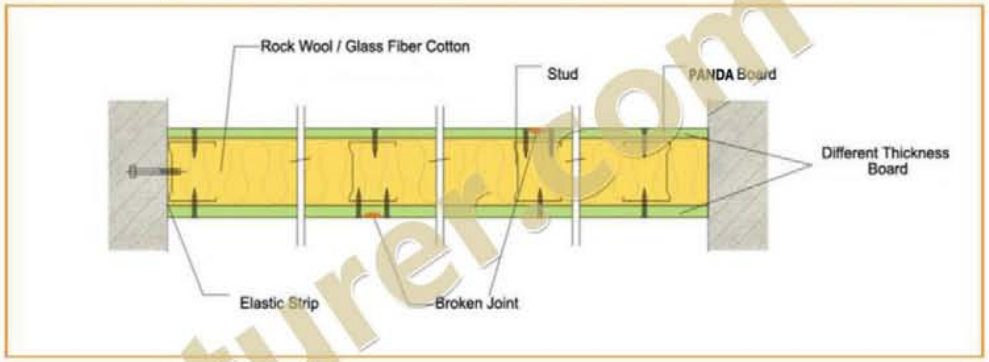
Joint Handling



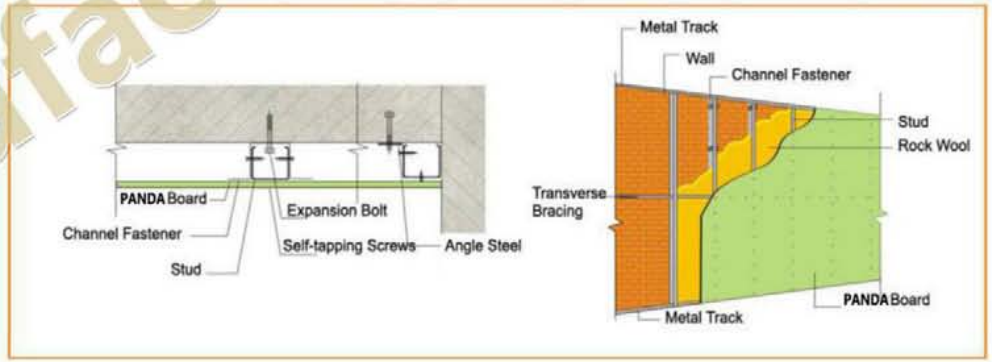
Wall Expansion Joint



Acoustic Wall Systems



Veneer Wall Systems



Window and door frame installation

1. When frame for window width ≤1500mm, two sides of the window frame need extra reinforcing bracing channels;
2. When frame for door width ≤3000mm and slide window width ≤5000mm, two sides of the window or door frame need extra reinforcing bracing channels;
3. When door opening ≥3000mm, window opening ≥5000mm, door and window frame will be made with steel structure.



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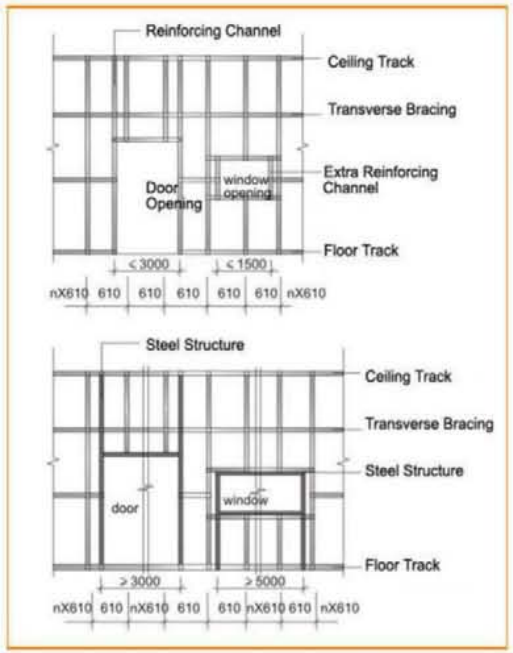
Ceiling Installation Guide

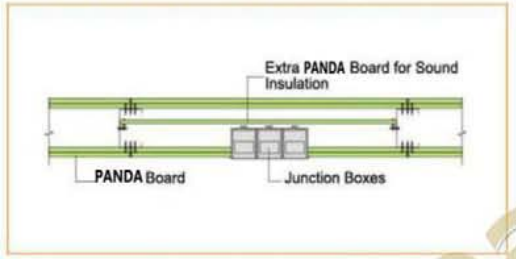
Fiber Cement Board







Services and Junction Boxes Installation





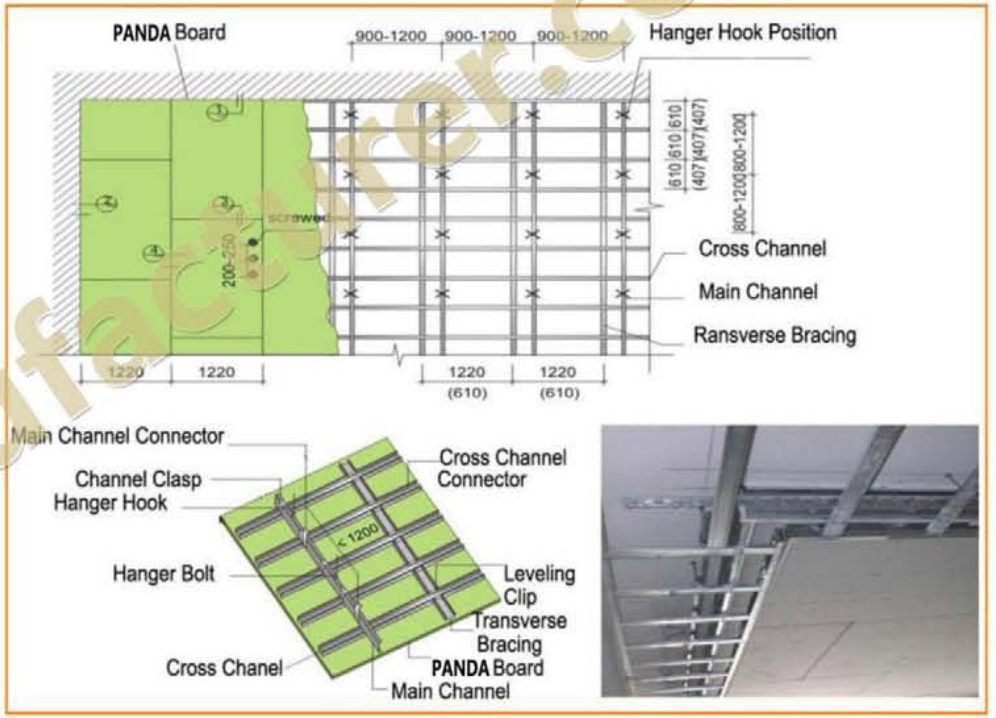




C Type of Ceiling Systems

PANDA Board can be fixed to C channel or T grid frame to make different ceiling systems for wet and dry areas.

PANDA Board ceiling systems are east to install, strong and beautiful.







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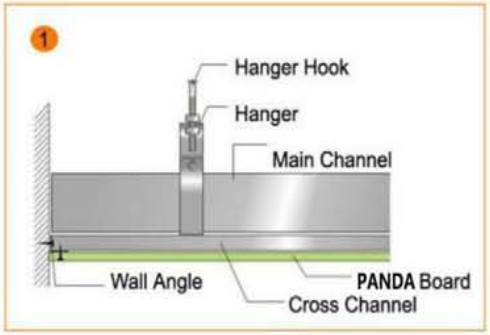
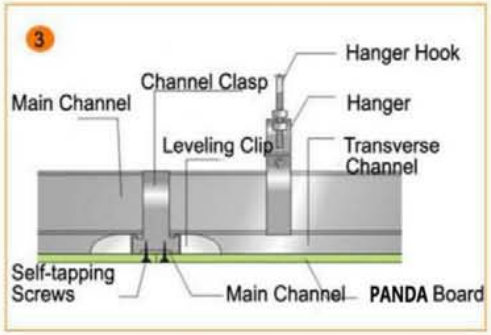
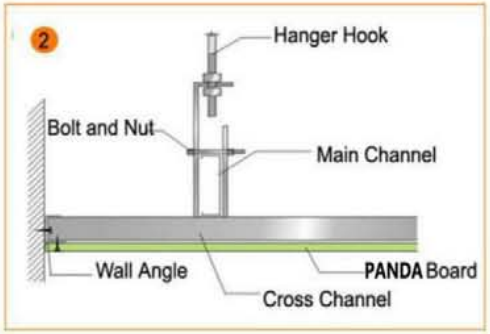
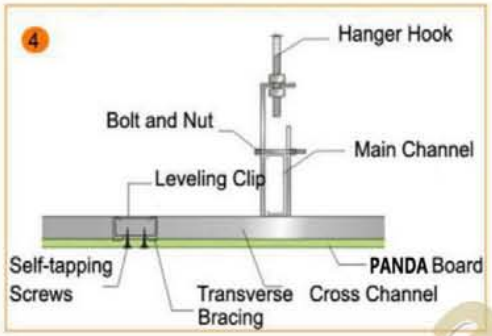
Ceiling Installation Guide

Fiber Cement Board









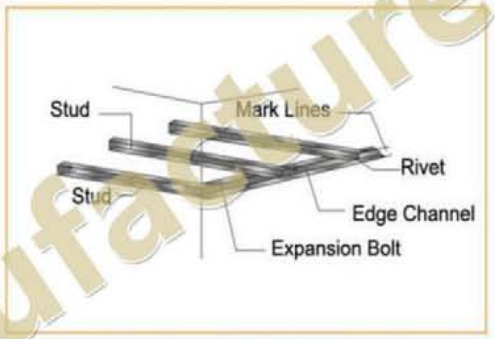


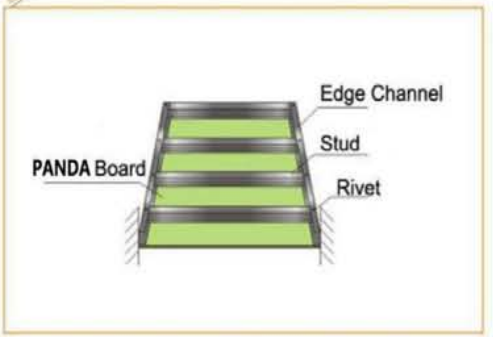


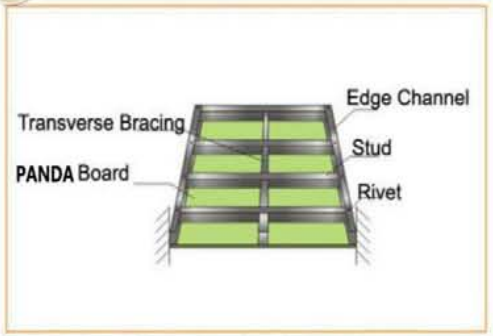
Installation for Self Supporting Ceiling

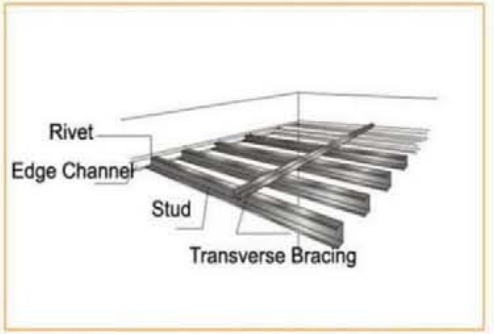
Self Supporting Ceiling Systems commonly can be used iin areas as belows:
1. A distance between concrete slab and ceiling is 300mm max.;
2. A ceiling with too many services, difficult to install;
3. A space with a span ≤3500mm

PANDA Board Self Supporting Ceiling can be installed quickly, hanger hook and bolt are not necessary, easy for services embedment. It is an excellent system that provides a fire proofing, water proofing, dust resistance, heat and sound insulation experience.













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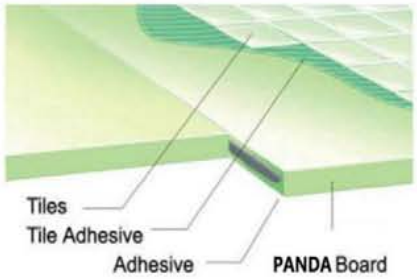
Floor Installation Guide

Fiber Cement Board

Flooring Systems

PANDA Board is a compressed fiber cement sheet. It is an alternative product to timber, particle or plywood flooring and an excellent substrate for ceramic tiles in wet and dry areas.
PANDA Board flooring is better than the concrete flooring with struture not accept the load of concrete. As a durable, strong, fire proofing, moisture resistance and easy to install flooring substrate, Board are widely used in dry and especially wet areas.
PANDA Board is commonly fixed to stell structure. The steel thickness must be in the range 0.75mm-1.6mm. The steel framing must have the appropriate level of durability required to bear weight and prevent corrosion.



Requirements for flooring systems

PANDA Board Density: 1300kg/m3 (± 50kg/m3)
Standard Size: 2440mm ×1220mm × 18mm-24mm







1 Load Requirements

The selection of the floor sheet thickness, density and steel span and joist spacing depends on the magnitude of the concentrated load and uniformly distributed loads.

Table 1, Max. Allowable Concentrated Loads (kN)

Sheet Thickness (mm)	Span / Joist Spacing (mm)
	300-610mm
18	2.6
20	3.5
24	5.2

Note:
18mm sheet caters for loads up to 2.6kN figure of the standard
20mm sheet caters for loads up to 3.5kN figure of the standard
24mm sheet is required where the 3.5-5.2kN or greater loads are needed.
The code specified higher loads in areas subject to crowd loading, storage of materials and heavy wheel loads. Any additional imposed loads must be considered. Where load requirements are greater, then all sheet edges must be supported.

2 Distributed Live Loads

Table 2, Max. Allowable Uniformly Distributed Live Loads (kPa)

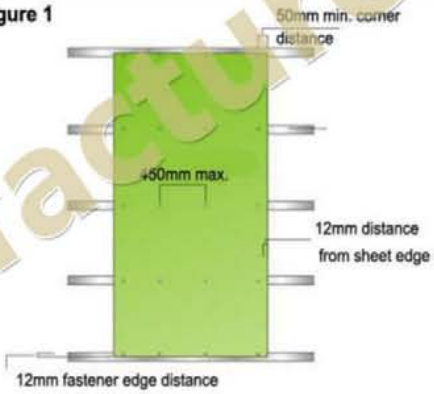
Board Thickness (mm)	Span / Joist Spacing (mm)					
Board Density: 1400kg/m³	300	350	400	450	500	610
18	37.4	27	21	16.5	13.1	8.6
20	47.4	37.5	31.2	23.5	18.3	12.8
24	68	50.3	39.3	30	24.1	16.5

Note: all figures above governed by bending strength. Table 2 sets out the max. distributed load for joist spacings between 300mm and 610mm, with sheet supported on all edges.

Installation for Flooring Systems

Step 1: Measure floor joist centers, ensure that correct thickness is used. Laying **PANDA** Board across framing is preferred, as fewer trimmers are needed. Joist should be spaced at maximum 500mm centers for 18mm **PANDA** Board and maximum 610 centers for 20mm or 24mm **PANDA** Board. For space fixings and sheet edges and sheet corners fixing, please refer to Figure 1.

Figure 1



Step 2: Drill clearance holes into **PANDA** Board with countersink hole to a depth of 1mm

Figure 2



Step 3: Install first **PANDA** Board with selp-tapping screws on the floor joists.



Figure 3

Step 4: Clean throughly sheet edges with brush, then prepare adhesive for sheet edges.

Figure 4





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Floor Installation Guide

Fiber Cement Board

Flooring Systems

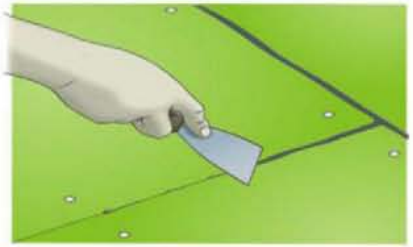
Step 5: Butter the edges of both the installed Board and the next sheet with adhesive.

Figure 5



Step 6: Installed next **PANDA** Board. Remove excess adhesive with spatula.

Figure 6



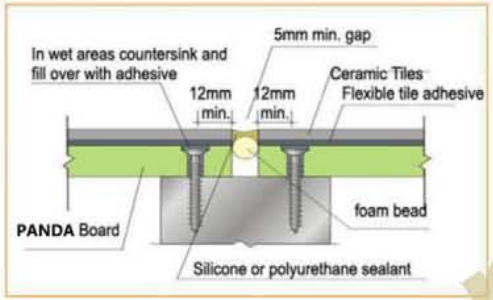
Step 7: Install all board, apply adhesive to countersunk screws, then clean sheet surface with damp cloth. At last, install tiles or other surface finish.

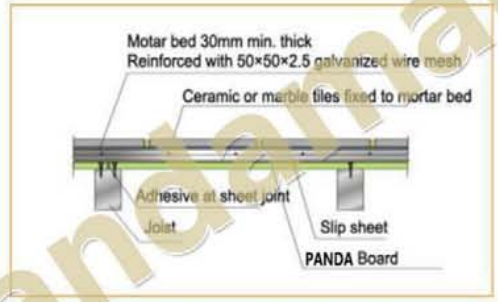
Figure 7

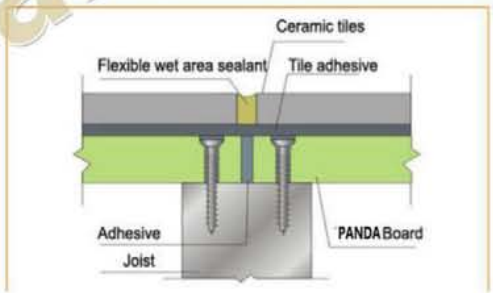


Joint Handling

Before installing ceramic tiles or other flooring decorative materials, the fixed and cleaned **PANDA** Board surface should be applied over flexible tile adhesive, sealant, cement mortar or other adhesive materials. A movement joint mst be provided through both the floor sheeting and the tiles or other materials for finish, spaced at not greater distance than 5m. The movement joint should be 5mm wide and filled with a polyurethane sealant over a foam backing rod. Movement joint must also be placed where **PANDA** Board adjoins another flooring substate such as timber flooring or a concrete slab.







Combined House Applications

PANDA Board are durable, lightweight but strong, impact resistance, fire resistance, sound insulation, insects or mouses resistance, weather resistance, environmental friendly, seismic resistance, waterproofing and easy to work, which are an ideal substrate for combined house dry walls, flooring, ceiling and wet areas.







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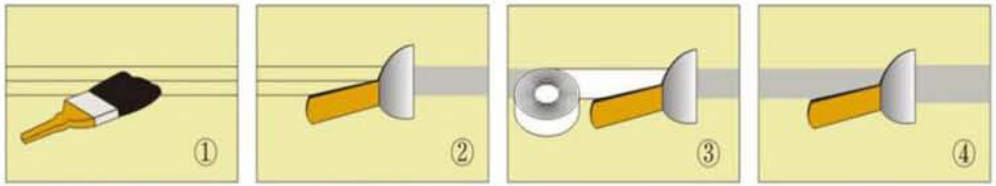
Installation Finish

Fiber Cement Board

Joint Handing

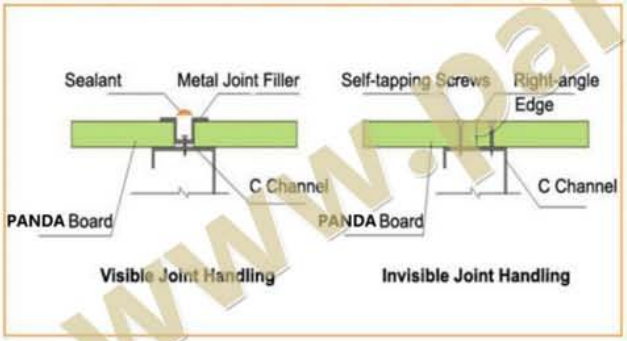
The joint handing steps for both **PANDA** Board visible joint and invisible joint are as follows:

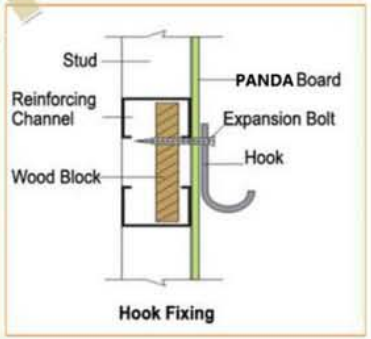
1. Clean sheet joint thoroughly, then apply white emulsion adhesive on the joint with brush;
2. Fill the joint thoroughly with putty by spatula;
3. Apply the fiber mush on the putty, when fiber mesh thoroughly stick to the putty, apply a thin layer putty on the fiber mesh;
4. When the putty is dried (about 6 hours, in wet condition, it must be longer), apply one more thin layer putty on the fiber mesh. After the thin layer putty is thoroughly dried, then polish and san the joint with sand paper, marking the joint surface smoothly for decoration.







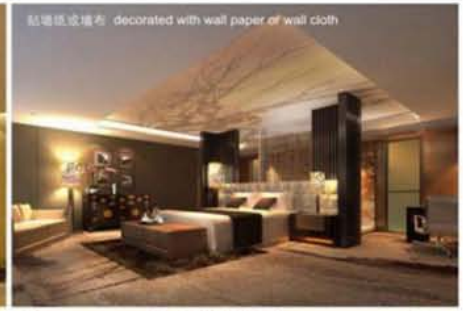




PANDA Board Finish

1. Tiles, tiles can be fixed directly to the sheet surface with tile adhesive;
2. Paint, acrylic and epoxy paint are recommended. The whole sheet surface needs to be plastered, and after plastering, then sand the plastered surface before painting;
3. Wall papers and wall cloth, both can be fixed on the sheet surface by white emulsion adhesive or polythene;
4. Veneers, including aluminum-plastic panels, fire boards and PVC boards, all can be fixed by white emulsion adhesive, all-purpose adhesive, silicon sealant, structural adhesive or marble glue;
5. Marbles, can be fixed on sheet surface with marble glue, silicon sealant or dry-hang system.











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FC Siding Board Specification

Fiber Cement Board









PANDA Cement Siding Board is manufacturered from a combination of Portland Cement, natural mineral materials and organic fibers, 100% asbestos free and no other hazardous materials. With considerable strength materials, PANDA Cement Siding Board are strong and durable. Cement Siding Board look like wood but work like cement, making them an ideal and unparalleled material for internal and external wall cladding. PANDA Cement Siding Board can be used in a wide variety of building applications. From facades for upmarket commercial complexed to the external skin of timber framed dwellings, PANDA Cement Siding Board provide a perfect solution.

Advantages

We applied proprietary wall paint coating system to make PANDA Fiber Cement Siding suitable for use in both internal and external applications. PANDA Fiber Cement Siding coated with wall paint offers a broad range of decorative finish to meet unique architectural requirements for every project. PANDA Fiber Cement Siding is an aesthetic and cost effective choice for use in institutional, commercial and residential structures, especially for a new development or refurbishment project.

- Heat preservation, energy-saving
- A wide spectrum of color
- Light weight, saft and reliable, non-combustible
- Wide applications, suitable for a new development or refurbishment project
- Compared with other traditional external wall decoration systems
- The cost for PANDA siding coated with wall paint reduces 20-50% durable, economical and dimensional stability
- Corrosion resistance, rot proof, anti-bacterial, good chemical resistance
- Impact resistance, frost resistance and no lamination

Colors Design



S-01



S-02



S-03



S-04



S-05



S-06



S-07



S-08



S-09



S-10



S-11



S-12

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FC Siding Board Specification

Fiber Cement Board

Specification

Length (mm)	Width (mm)	Thickness (mm)
3660	150 / 210	8
Coating	All-round bottom paint + color paint + color paint (two tone) + antiaging varnish application	Crylicacid paint for exterior
Color	Coffee, brown, white, grey & two tone	Customized according to requirements

Tolerance Dimension

Item		Requirement
Length (mm)	3660mm	± 3 mm
Width (mm)	150mm	± 3 mm
	210mm	± 3 mm
Thickness (mm)	8 mm	± 0.8 mm

Physical Properties

Item			Unit	Requirement	Results
Density			g / cm3	0.95<D≤1.20	1.18
Thermal Conductivity			W / (m · k)	≤0.25	0.246
Water Absorption			%	≤40	38
Moisture Movement			%	≤0.25	0.19
Non-Combusibility			---	Gb8624-2006	Class A
Bending Strength	Oven Dry	Cross	Mpa	≥10	12
		Vertical	Mpa	≥6	8

Applications

- External wall decoration or renovation
- Eaves lining
- Internal wall or ceiling soffit lining
- Wainscot decoration
- Cornice edge decoration
- Decorative curved wall



Design Criterion

Weather Conditions

The information in this catalogue is relevant for wind loading normally encountered. In strong wind areas, we can provide advice on specific fixing recommendations. When walls are exposed to a high degree of wind and rain, the water can be drawn upwards. Therefor a durable waterproofing membrane should be fully backed in sheet form and fixed between the building planks and the vertical studs.



Supporting Structure

To ensure PANDA Siding a high standard of finish, the supporting structure should be accurate and straight. The poor quality structure will reflect in the final appearance of PANDA Siding, please use qualified supporting structure.

The distance between vertical studs should not exceed 600mm. PANDA Siding should be lapped by a minimum of 25mm.



Ventilation of Cavity

When PANDA Siding are used for timber framed housing or for cladding of masonry walls, the cavity formed should be ventilated. In this type of construction, various types of foil are used to make a moisture barrier or an insulator.

The ventilating cavity can evaporate the condensate collected on the insulation material, ensuring a safe and high efficiency systems.

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FC Siding Board Installation

Fiber Cement Board

Installation

PANDA Fiber Cement Siding Boards can be used for villa, low-rise building or interior decoration. The shadow part of the boards shows a sense of beauty. Boards can be installed vertically between each other, and are fixed on a smooth keel which is connected to a building. The boards can be painted with different colors, which meets the need of individuationin.

Weather Conditions

When moving PANDA Siding Boards, two people must stand at each side of the panel with a distance of 50 to the edge. Single person carrying the boards is not allowed.



Storage

Edges and corners must be protected when carrying the boards. Distance between the supports of pallet must be 50cm and the stack height should be less than 1 meter. The ground must be smooth and dry. Please keep the place and the goods dry.



Tools and Accessories



Ventilation of Cavity

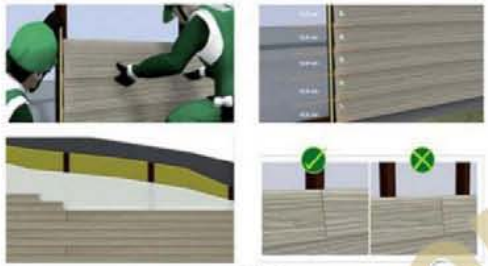
1. Check the walls if the surface is smooth.
2. Find out the base of the walls and draw lines as marks for the installation of keels.
3. Arrange the keels and fix them. Either 50# light weight steel or 3.5×3cm wood log can be used as keels. Fix the keels on the walls in distance of 60cm by nails or anchor bolt. For wood keels the processing of anticorrosion is necessary, and round doors and windows reinforced keels must be added.



4. Install the first board from bottom with a nail or 3.5mm long self-tapping acrew and fix it on keels. Note: If using self-tapping screws it is necessary to drill holes in advance with a drill. The head of nails or screws can be sunk into the board by 0.5 to 1mm. The heads should have preservative treatment and be covered by putty. Distance between drill holes and long edges must be more than 1.2cm, normally 1.5cm. Distance between drill holes and short edge must be 2cm.



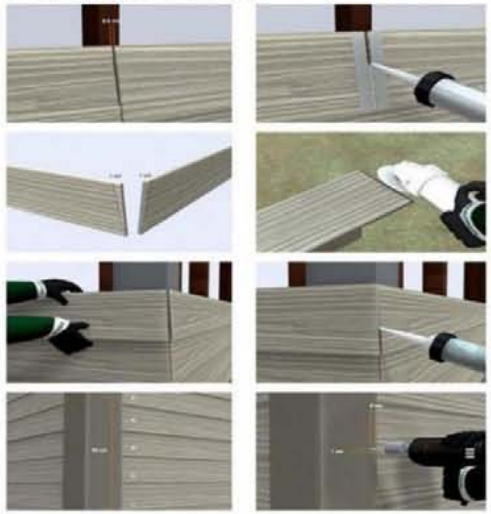
5. Use the same way to install the second board, with one edge of the second board stacking 3.5cm on edge of the first board. Then in stall other ones with the same way. Attention, if walls are wider than boards, joints of two boards on the same level should be right on top of keels, instead of suspending.



6. Keep the gaps between two PANDA Siding boards about 3-5mm wide. After fixing all boards, use PU adhesive (PU25) or ceramic adhesive to fill the gaps. The connecting of boards and corners should be natural and covered with above mentioned adhesives. When the last board is installed on the top, remember to cover the joint and gap as well as to keep water away.

7. Boards should be cut to suit the size and shape of doors and windows. Do not make straight joints and remember to cover gaps and joint so as to prevent water leakage.

8. At corners of two walls, PANDA Siding boards must be treated to make the conjunction smooth and beautiful. There are two ways of doing this. One is to make a 45 degree chamfering of two boards and combine them together. Then seal it with tapes. And the other way is to put one board vertically on the other one then seal the joint with tapes.



9. When the installation is finished, use brushes or towels to clean dust on the boards before painting. It is better to use acrylic paint and the painting can be three times (one base paint and two times



Direct Installation on Walls

1. Make the walls even and smooth.
2. Draw horizontal lines and arrange boards.
3. Draw lines of all boards and then install them.
4. Before installation, put a board on a wall and check if the size and corner are suitable, and cut it if necessary (in 45 degree chamfering so as to combine them easily).
5. When comes to installation, first use strip nails to fix them, and then use anchor bolt to fasten them.
6. Clean and polish nails and screws that may cause scratches.



Notices:

1. The width of boards is about 20cm. When drawing lines, please keep 17-18cm distance between two boards and that would make the interval look nice. You may use ink or lines to mark the distance.
2. After drawing lines of all boards, check again if the size, wood texture pattern and quantity of the boards are suitable. The Length of board is 3 meters, so getting a general idea of the whole project can save materials during installation.
3. When fixing the boards, first use strip nails and then anchor bolts Holes must be drilled in advance for anchor bolts. If there is any part not being nailed when the installation is finished, it is because of the smoothness of walls. Use strip nails to fix it.
4. Use small writing brush and roller for painting.
5. If there is any pollution on walls, it is better clean it up before installing boards.



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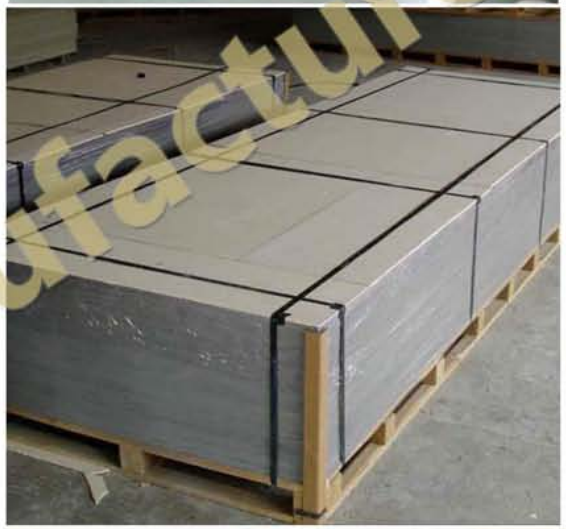
Factory Overview

Fiber Cement Board







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