



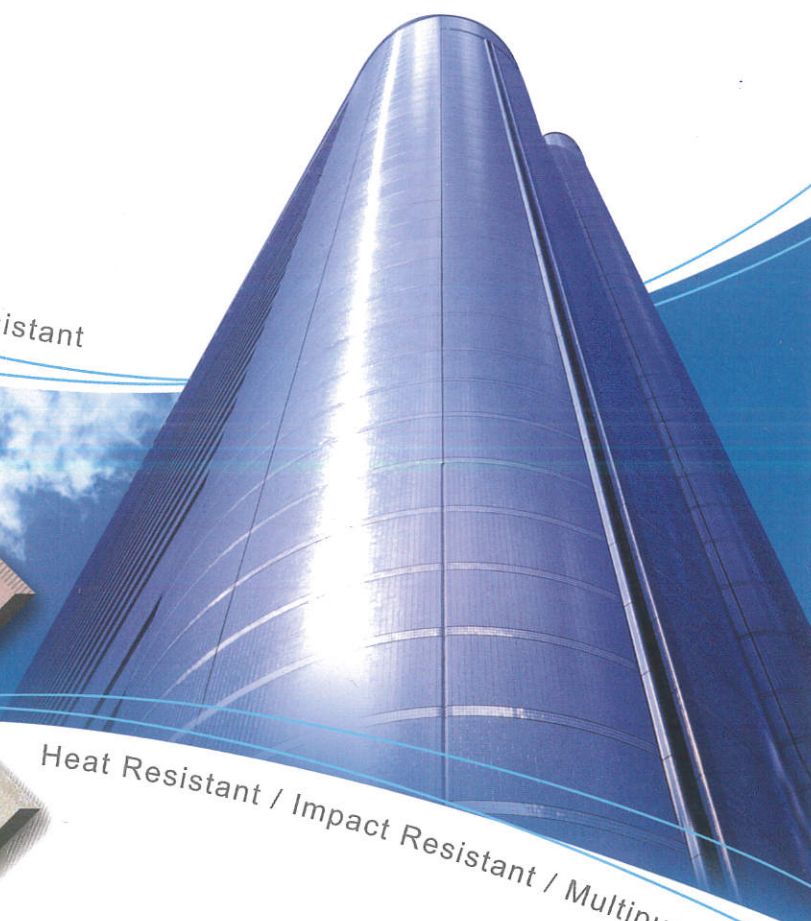
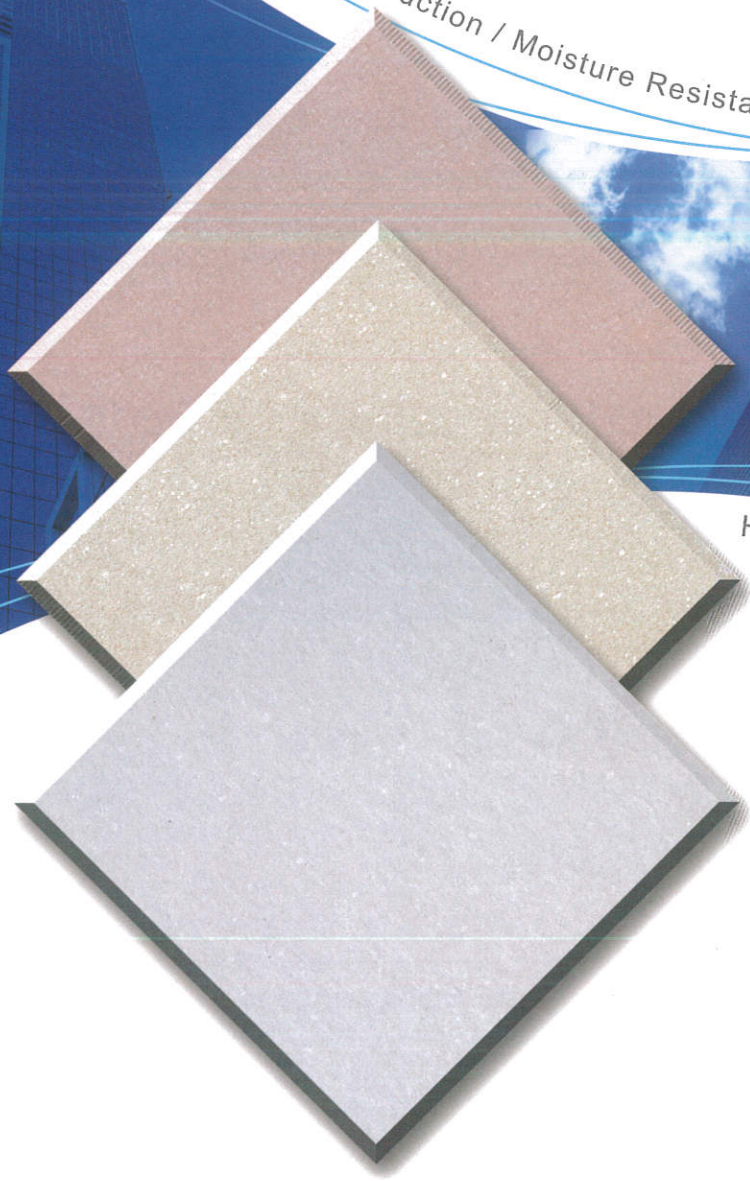
HOFMANN

矽酸鈣板 · 纖維水泥板

CALCIUM SILICATE BOARD
FIBRE CEMENT BOARD

Incombustibility / Noise Reduction / Moisture Resistant

Heat Resistant / Impact Resistant / Multipurpose



(98)GBM00196

矽酸鈣板 Preface

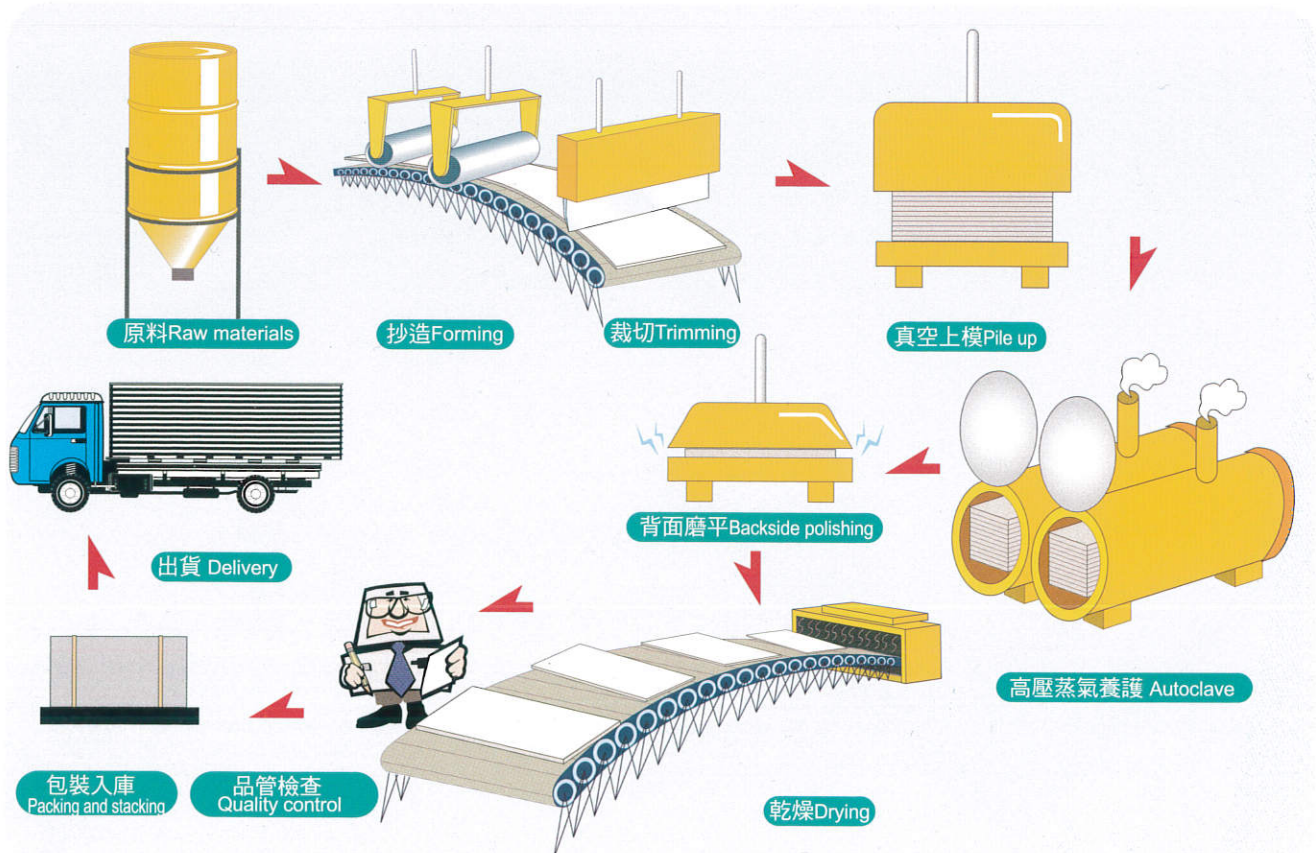
矽酸鈣板是以矽藻土及水泥、石灰和補強纖維(紙漿纖維)等，經過製漿、成形、蒸氣養護、砂磨等工法製成的防火輕質板材，其中原料配比和蒸氣養護是生產優質矽酸鈣板的關鍵技術，應用於海島型氣候的台灣，在防潮耐候、隔熱防火及板材穩定性，都表現出品質的優異性

輕質矽酸鈣板的製作採用高強度木纖維，100%不含石棉致癌物質，品質穩定，由於重量輕，利於減少建築物的載重，並通過防霉抗菌測試。板面裝飾無論油漆、貼壁紙、磁磚或美耐板均可適用

Hofmann Calcium Silicate is a stable, fire-resistant building material. It is composed of several raw materials including silica, cement, lime, and enhanced cellulose. By processing these materials with pulping, forming, autoclaving, as well as backside polishing, a light board substrate is synthesized.

Hofmann Calcium Silicate board is a non-asbestos product; we adopt natural high-strength cellulose as the main fiber, because its light weight reduces the load on a building. Moreover, the properties of fungus resistance have already passed the preliminary tests. Our product is capable of being universally applied to other finishing, such as paint, wallpaper, tile, and laminates.

製作流程 Manufacturing Process of Calcium Silicate Board



特性 Properties of Calcium Silicate Board



防火 Fire Resistance

防火: 矽酸鈣板具有優良防火性, 能阻緩火勢蔓延, 讓建築物室內空間有防火區隔, 有效保障生命財產安全。

Hofmann products are classified as class 1 of CNS 6532; Non-combustible of BS 476: part 4.



輕質 Lightweight

輕質: 產品質量輕, 可以減少建築物的承重。

The lightweight product is capable of reducing the load on a building.



抗菌 Fungus Resistance

通過抗菌測試。

The product meets the fungus resistance test.



隔音 Sound Insulation

隔音: 板材具優越隔音性。隔間系統再配合岩棉填塞, 更可提高噪音阻隔能力。

Base on the combination of different boards and insulation, noise can be effectively insulated.



隔熱 Thermal Resistance

隔熱: 矽酸鈣板熱傳導率低, 使產品具有隔熱的優良性能, 可有效節省空調費用。

The low thermal conductivity of the product makes it excellent in thermal resistance performance.



尺寸穩定 Dimensional Stability

尺寸穩定: 板材穩定性高, 不因環境溫差、濕度變化而產生變形。

The length change of our autoclave made product, after 24 hours soaking was < 0.15%



易施工 Workability

易施工: 矽酸鈣板質輕容易安裝, 使用美工刀或木工電鋸切割, 可用螺絲釘固定於輕鋼架或使用上膠、風槍釘方式固定於木構架, 施工快速。

The product can be cut, drilled, sanded and worked with normal hand tools and machinery; a 6 mm thickness can be cut easily on site with a Stanley knife.

適用範圍 Application

適用於辦公室、住宅、商場、學校、醫院、食品廠...等。在廚房、浴廁等潮濕場所更能顯示其優秀的性能。

The material can be used in hospitals, food factories, markets, gyms, offices, apartments, laboratories, etc.

Also, it can be installed in damp areas, such as kitchens, bathrooms, lavatories, dressing rooms, and so on.

性能表 Mechanical Properties

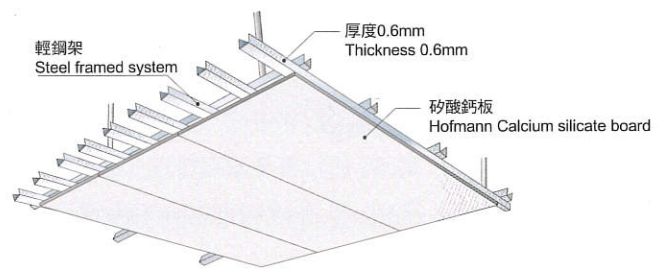
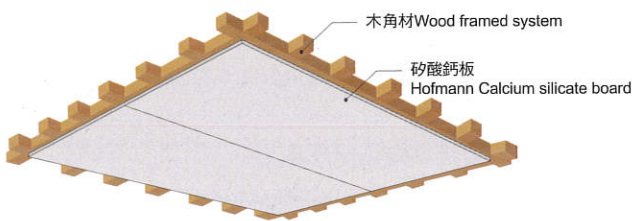
種類 Product	厚度 Thickness mm	容積密度 Bulk Density kg/cm ³	抗彎強度 Flexural Strength kgf/cm ²	吸水長度變化率 Length Change After Water Absorption %	熱傳導率 Thermal Conductivity (w/m.k)	耐燃性 Fire Resistance CNS6532
0.8矽酸鈣板 Calcium Silicate	6~12	0.85	> 100	0.15 <	0.24 <	耐燃一級 Class 1
1.0矽酸鈣板 Calcium Silicate	6~12	1.0	> 130	0.15 <	0.24 <	耐燃一級 Class 1

天花板 Ceiling

適用於辦公室、會議室、賓館、廠房、商場及各式大型吊頂工程，可增加室內的亮度與美觀度，天花板安裝時，須與建築結構體及各式牆面適當留縫間隔，避免去承受結構體的震動位移。

It is recommended for ceiling work in offices, meeting rooms, hotels, factories and malls, etc. to increase indoor brightness and beauty.

When installing the board as ceilings, you should leave appropriate space between the structure of the building and the walls; this can prevent the ceiling panel from extruding by structural vibration.



輕隔間 Drywall partitions / Steel Framed or Wood Framed

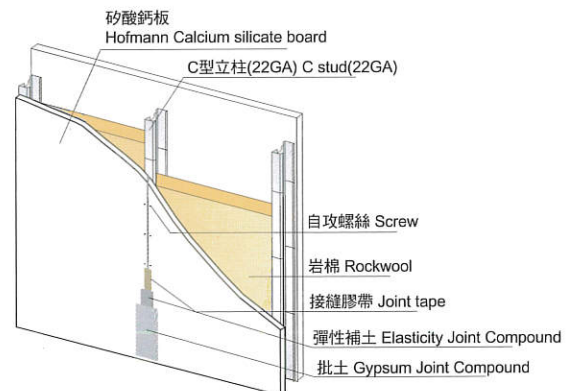
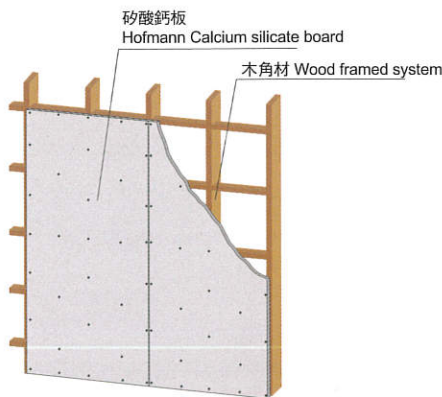
輕隔間並非載重牆，安裝時須與結構體留縫間隔；在牆上釘吊掛物件，應依物件重量選用螺絲釘固定或獨立支撐固定。

隔間牆由矽酸鈣板、輕鋼架或木角材、填充岩棉和其他配件構成，可達到防火、隔音、保溫等功能。

Fabrication of different Hofmann Calcium Silicate Board, Framing Systems, Insulation and Accessories meet different fire ratings, thermal insulation and sound insulation partition requirements.

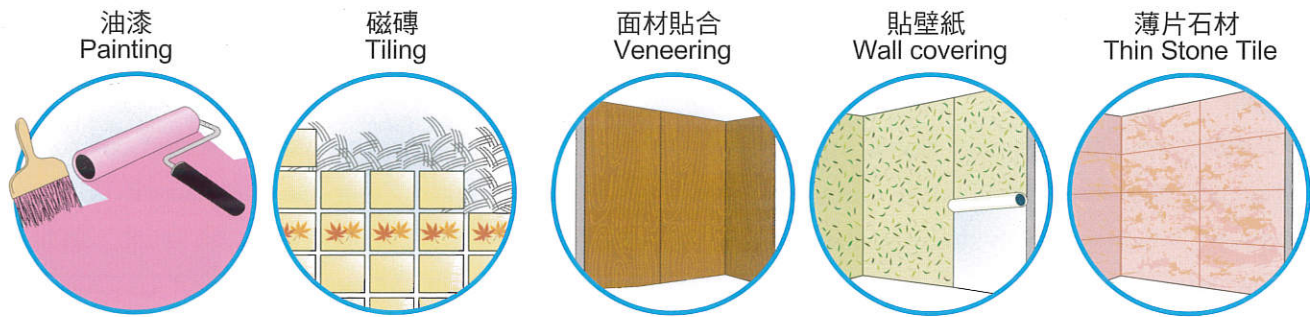
Partitions are non-load bearing systems; partitions, ceiling abuts and structural elements (except floors) or dissimilar walls or ceilings should have a 9mm space.

Fixture attachments and lightweight fixtures should be installed with screws or toggle bolts inserted in the panel and, preferably, also through the stud. Wood or metal mounting strips for cabinets and shelving should be bolted to the stud framing.



矽酸鈣板表面裝飾

Finishing



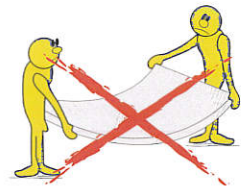
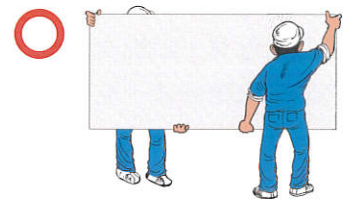
矽酸鈣板運輸及保管 Transportation and storage

在搬運及儲存過程中，必須正確掌握搬運和存放的方法。

It is required to follow the standard rules during transporting and preservation.

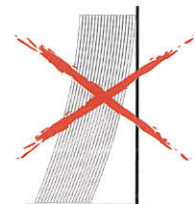
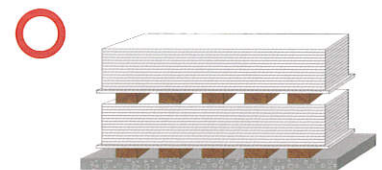
搬運方式：Transporting approach

1. 單片搬運須小心謹慎，注意邊角保護。
 2. 搬運時須由側邊將板材抬起，雙手托起板材的長邊，防止板材過度彎曲。
 3. 厚度低於8mm時，建議每次兩片重疊搬運。
1. Individual boards should be handled carefully. Beware of the edge protection.
 2. The panel should be lifted from a stack by sliding it sideways and lifting it by the long edges with arms spread apart to give even support and prevent excessive flexing of the board.
 3. When the thickness of the board is less than 8mm, it suggests moving two boards at the same time.



存放方式：Storage Method

1. 保持底部平整，每疊高度小於1000mm，儲放高度小於2500mm。
 2. 不能零散地直立放置，應按規格、種類整齊堆放。
 3. 儲存必須保持乾燥，無漏水、滲水現象，才能保持產品優越的性能。
1. Keep the stack level. Each stack should be less than 1000mm in height; a preservation less than 2500mm height.
 2. For manual stacking, the board should be placed on top of battens/ supports which are laid and equally spaced at not more than 400mm centers on solid level ground.
 3. The storage space should be dry and clean. When boards are stored in the open, always ensure the stacks are fully covered and protected from rain and the elements.



纖維水泥板 Fiber Cement Board

纖維水泥板原料為水泥、矽砂及高強度長纖維，經過高壓蒸氣養護 (Autoclave)，品質堅固尺寸穩定，並保證100%不含石棉致癌物質，非常合適應用於室內或室外的潮濕空間，通過CNS 6532耐燃一級及BS476 Part4不燃材料標準。

Hofmann Fiber Cement Board manufactured by modern technology, cement, silica and cellulose fiber are the main formulated materials. Every piece of Hofmann Fiber Cement Board is fully autoclaved, ensuring a high strength, stability and 100% NON-ASBESTOS quality products, which can be used in interior and exterior areas that may be subject to high moisture/humidity conditions. Noncombustible tests meet CNS 6532 class 1 and BS 476 part 4 standards.

纖維水泥板之特性 Properties of Fiber Cement Board

質輕，施工快速。Lightweight, Easy installation。

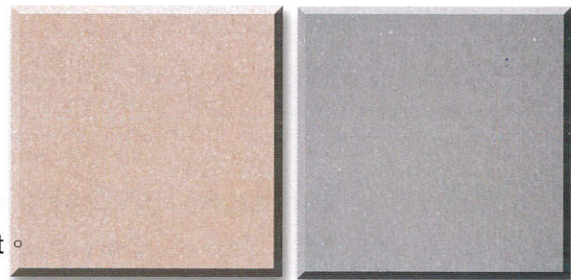
耐燃，不怕水，隔音效果佳。

Non-combustible, water damage-resistant, excellent sound insulation.

堅固，紮實，耐衝擊性優良。Solid, High-strength, Shock resistant。

表面可直接油漆，貼磁磚或大理石。Directly applied paint or tile or laminated marble as finishing。

降低基礎、結構以及整體工程成本。Light-weight wall system can reduce construction cost。



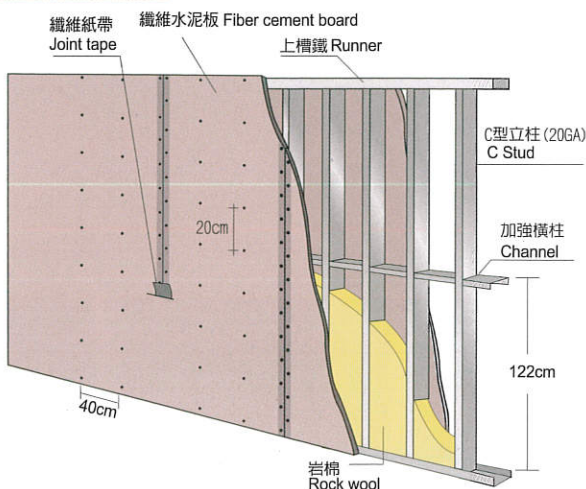
纖維水泥板之性能表 Mechanical Properties

種類 Product	厚度 Thickness mm	容積密度 Bulk Density kg/cm ³	抗彎強度 Flexural Strength kgf/cm ²	彎曲破壞載重 kg f	吸水長度變化率 Length Change After Water Absorption %	熱傳導率 Thermal Conductivity (w/m.k)	耐燃性 Fire Resistance CNS 6532
1.0纖維水泥板 Fiber cement board	6 8 9 10 12	>1.0	>100	>20	0.16<	0.24<	耐燃一級 Class 1

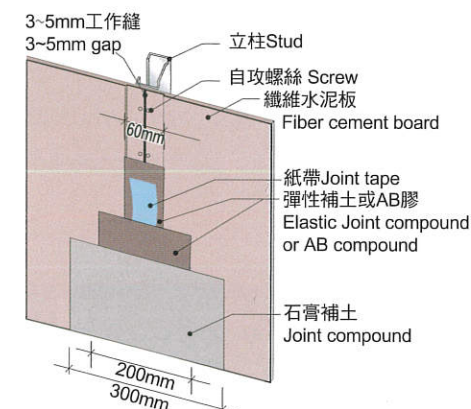
纖維水泥板施工方法 Installations

乾式隔間牆 Drywall

安裝示意圖



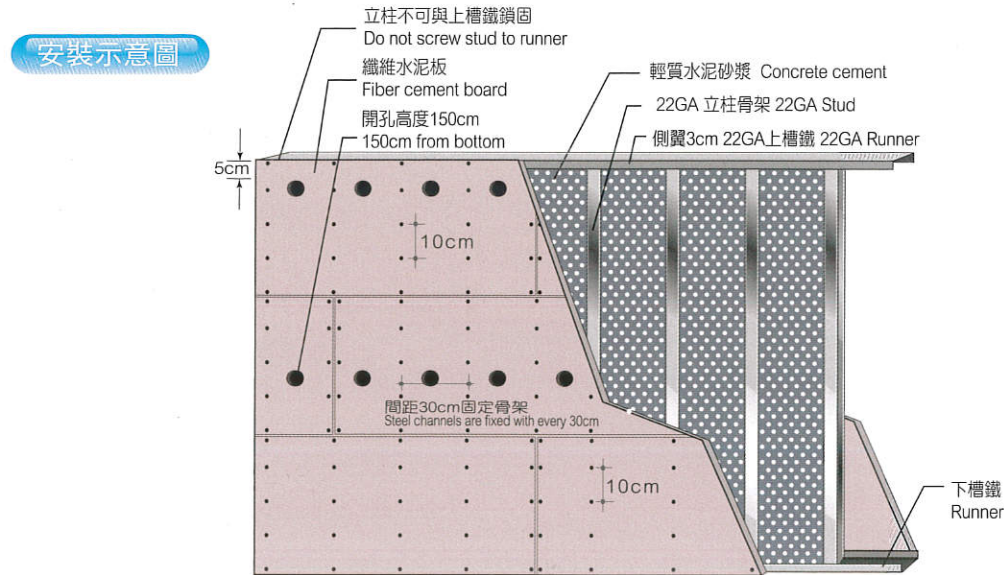
接縫處理 Joint treatment



濕式隔間牆 Solid Wall

6 mm~12 mm纖維水泥板灌漿牆系統符合內政部2小時防火時效標準，具有絕佳之安全性。

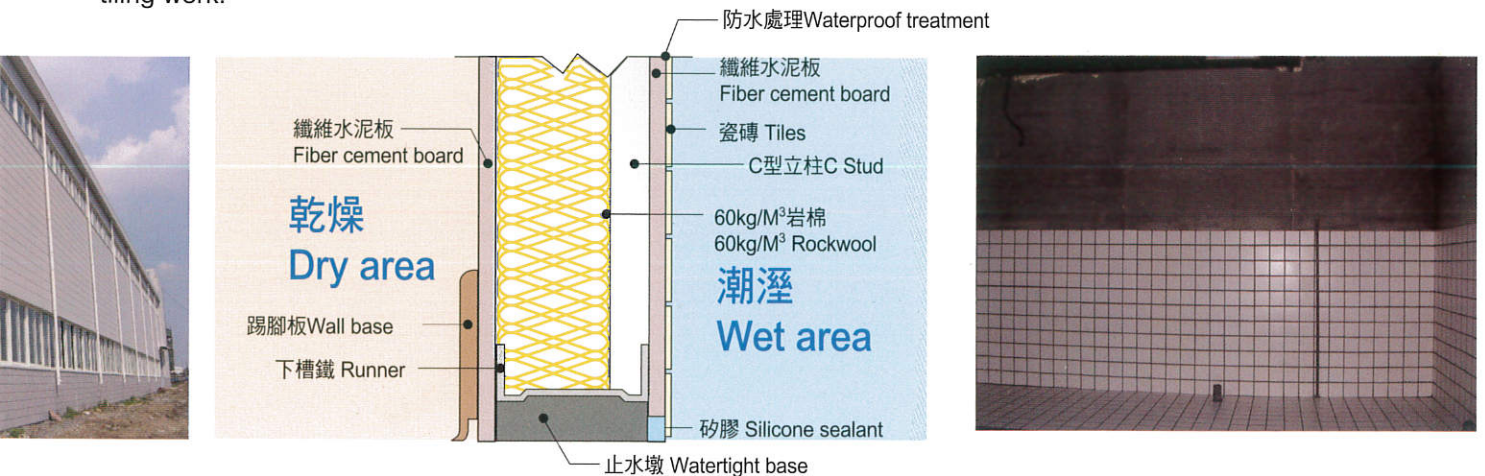
Hofmann Fiber cement boards are made for drywall systems, solid wall systems and tiling wall systems. The 6mm ~ 12mm board-assembled solid wall system passed the two-hour fire rated test.



衛浴隔間牆 Tiling Wall

面貼磁磚或薄片石材，先將所有接縫及開孔，以防水材料填實，乾固後再以彈性高分子黏著劑黏貼。

Before tiling, all joints and openings should be filled with waterproof filler. After curing, apply tile adhesion for tiling work.



CALCIUM SILICATE BOARD
FIBRE CEMENT BOARD



Hao Fu Man Construction Material Co., Ltd.

HOFMANN CHEN (TAIWAN) LTD.

21, CHIEN KONG ST., TAICHUNG, TAIWAN, R.O.C.

Tel:886-4-22810002 Fax:886-4-22816824 886-4-22810019

<http://www.hofmann.com.tw> e-mail:gueylin@ms37.hinet.net