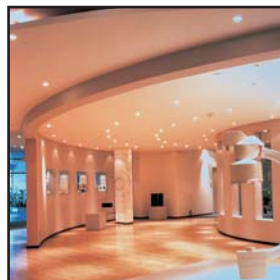# ELE' Solution
Siam Gypsum Technical Manual

Siam Gypsum

Partition

- Single Frame Partition
- Twin Frame Partition
- Curve Partition
- Koolrock Partition

Gypsum Partition System

Gypsum partition system is a new style of indoor partition replacing the old fashion brick wall. Its weight is 6-8 times lighter than brick wall. It helps to reduce structures for heavy brick wall and the size of foundation as well. This way the cost will be reduced. Other than that, its dry system allows easy installation without wasting time on building brick wall and applying compound to the whole entire wall. It is easy to renovate as well as give more freedom of design and usage. Inside the partition is a metal framework which can be used to cover system and wire pipe It gives a smooth finishing and beautiful surface.

Furthermore, Gypsum Partition System also has other capabilities which are better than general partition system in term of capability of heat resistant, sound absorption and fire resistant depending on the design and usage of each type of Gypsum Board on each different system. The Gypsum Partition System is divided in to different types depend on the system assembly and usage as listed;

Single Frame Partition

It's a Gypsum Partition System which has single metal frame C75 cover both side of the frame with different type of Gypsum board which will give different qualities and usage depend on the design. It is a light weight system, easy to install and suitable for indoor partition of tall building, school, hotel, hospital, office building, manufacturing plant, town house and villages. Choosing Gypsum Partition System to be suitable for each room in the building following the system qualification, the systems are as follow;

Ref Code	System Name	System Detail	Application
P01	ELE` P S#24	Elephant Gypsum Board Standard thickness of 12 mm. 1 layer each side	Use for general room partition.
P02	NoiseBloc P S#24 extra	Elephant Gypsum Board Standard thickness of 12 mm. 1 layer each side and line with sound insulation	Use for partition in rooms that need extra sound transmission control.
P04	MoistBloc P S#24	Elephant Moisture Resistant Type MoistBloc thickness of 12 mm. 1 layer each side	Use for partition in high humidity area such as bathroom and kitchen
P05	FireBloc Psingle S#24 1hr.	Elephant Fire Resistant Type FireBloc thickness of 15 mm. 1 layer each side	Use for partition, hotel corridor, fire exit, that need 1 hr. fire resistant rate.
P06	FireBloc Pdouble S#24 2hrs.	Elephant Fire Resistant Type FireBloc thickness of 15 mm. double layer each side	Use for partition, hotel corridor, fire exit, that need 2 hrs. fire resistant rate.

Note : Each system has C75 as a metal frame core and cover with any kind of Gypsum Board as listed.

Twin Frame Partition

It is Gypsum Partition System with 2 rows of metal stud C75 as a middle core. Leave 20 mm. spacing apart by putting C frame on each frame intervals. Sound insulation sheet is lined in the space between each frame. Cover both sides of the frame with 2 layer of Elephant Gypsum Board Standard thickness of 12 mm. It has a good sound transmission control capability and suitable for partition between rooms such as; Karaoke room, Rehearsal room, Hotel and etc.

Ref. Code:	System Name:
P03	NoiseBloc P S#24 double extra

Curve Partition

It is Gypsum Partition System with metal stud C75 as a middle core as same as single frame partition, the frame will be cut in to curve as desired. Cover both sides with Elephant Curve Gypsum Board, Flex Board, and thickness of 6 mm. that can be bended for more beauty and freedom design. This system is suitable for indoor building, manufacture, department store, house which needs an exceptionally beautiful design.

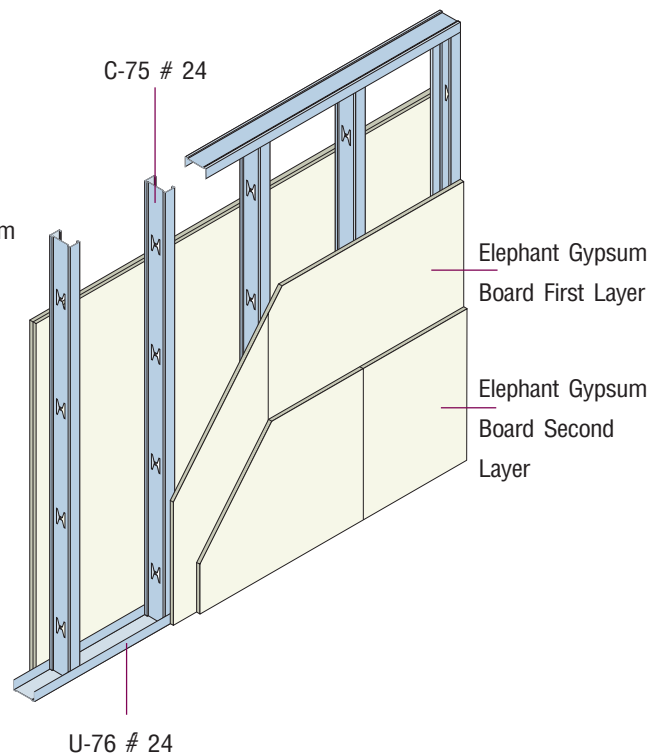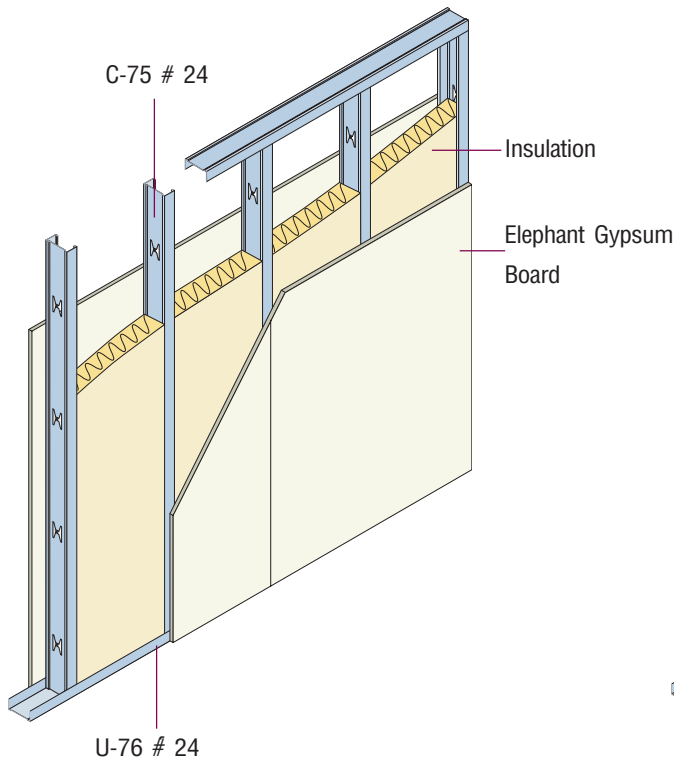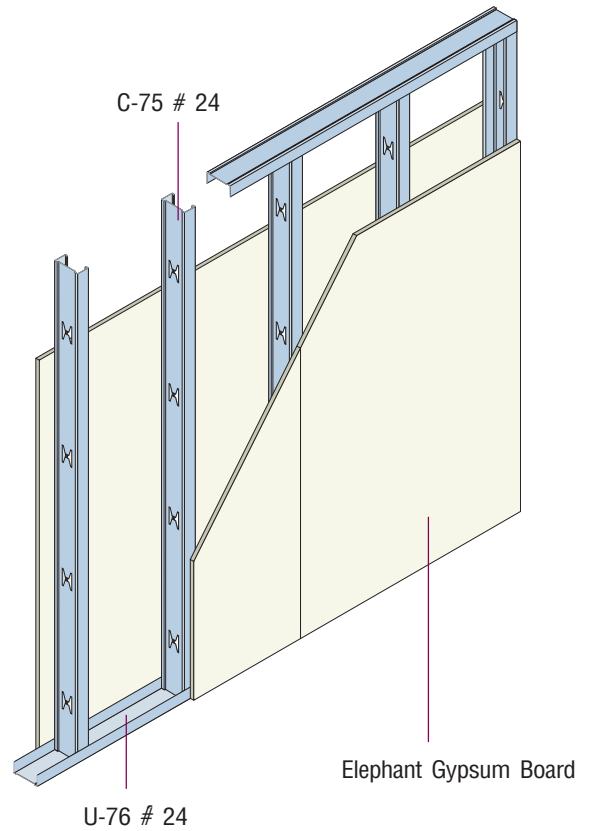| Ref. Code:	System Name:	Gypsum Board Use
AC09	Flex P S#24	Elephant FlexBoard thickness of 6 mm.
AC10	Flex P S#24 extra	Elephant FlexBoard thickness of 6 mm.
		Elephant Trim Tex

Koolrock Partition

It is a solid partition system which is different from the other 3 systems mentioned. It is a combination of Koolrock, with Casting Plaster as a core mix with Polystyrene Foam, and covers both sides with Gypsum Board Standard. The Koolrock is a Tongue & Groove system help in well locking the board together. Put on C 52 on both top & bottom. It is easy install without the use of screw, exceptionally durable. It has capabilities of fire resistant, sound transmission control and heat resistant. Koolrock Partition is suitable for regular indoor office, house, department store, gymnasium and areas that need to be exceptionally strong.

Ref. Code:	System Name:
P07	Koolrock P S#26

Single Frame Partition

This is the most popular Gypsum Partition System. It is fast and easy to install. The system is a combination of metal mainframe. C75 and U 76 cover both sides with any type of Elephant Gypsum Board by using black screw then apply Easy Joint Compound to cover screw head for smooth and beautiful surface. It is lightweight and can be added or renovated right away without poles or beams for support. It is strong and has tested for partition system standard BS 5234 with Medium Duty to Heavy Duty grade (details check appendix of the partition durability) so that you can be confident that it is strong enough when used as partition in the building.

With space in partition, it allows wire pipe, switch, and outlet to be hidden inside for a smooth and beautiful surface. Other than that the insulation can be installed in between the wall for Heat resistant and Sound Transmission Control capability. With the variation of system designs that can apply different types of Gypsum Board on the frame, it allows each system to have different qualifications for different usage. This system is suitable for indoor partition in tall building, school, hotel, hospital, office, manufacture and also inside individual houses as well.

C-75 # 24

Elephant Gypsum Board

U-76 # 24

C-75 # 24

Insulation

Elephant Gypsum Board

U-76 # 24

C-75 # 24

Elephant Gypsum Board First Layer

Elephant Gypsum Board Second Layer

U-76 # 24

The System Component

|		
Elephant Steel Stud Partition C75 # 24		Size 75x35 mm. thickness of 0.55 mm. length of 2.5 and 3.0 m.
Elephant Steel Stud Partition C76 # 24		Size 76x32 mm. thickness of 0.55 mm. length of 3.0 m.
Black Screw 25 mm.		Size 3.6 mm. length of 25 mm.
Black Screw 38 mm. (for double layers partition)		Size 3.6 mm. length of 38 mm.

Installation of Gypsum Partition System (Single Frame Partition)

Attach U76 on the floor, ceiling and aside of the wall follow the mark using concrete bolt in every 30 cm. Attach C75 into U76 at every 60 cm. space by using reweigh then cover both side with Gypsum Board. The Board needs to be lifted 1 cm. from the floor. Screw the board to the frame leaving 10 - 16 mm. space from board edge. Each screw will be 20 cm. apart. In the middle of the board, each screw will be 30 cm. apart. Then cover the screw head and joint with Easy Joint Compound.
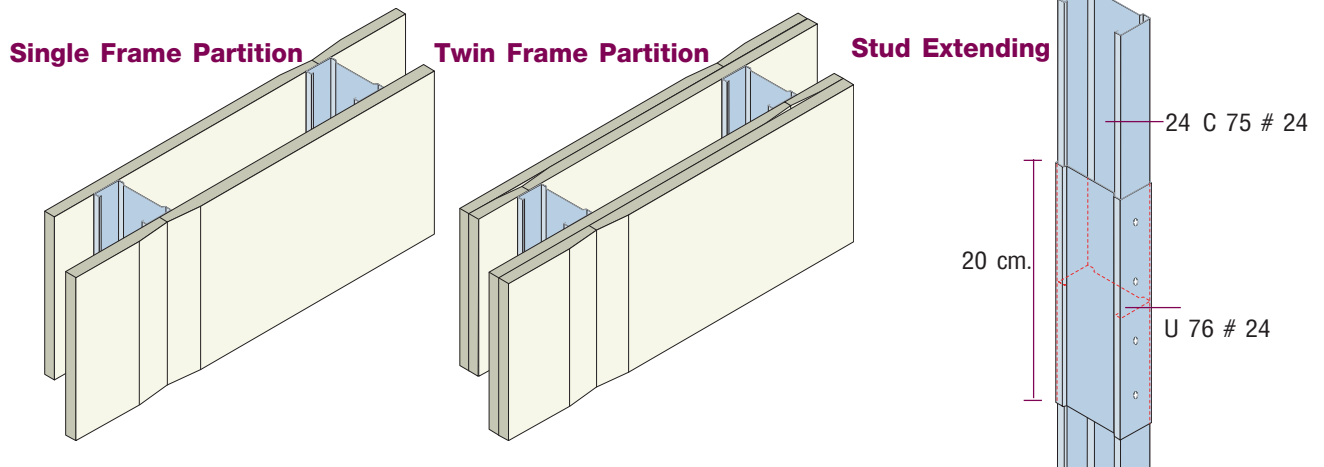

Installation Regulation

- General gypsum partitions are non load - bearing accept specially designed
- Gypsum partitions in stalled between the floor and the beam has to be designed concerning the possibility of floor sagging and beam which usually spared 5 mm. for every 1 m. height and 16 mm. for the height of more than 3 m.
- The installation of Gypsum Board on Stud framing can be done in 2 different ways; vertical and horizontal
- To screw the board with metal frame, attach from the open side of the frame forward the close side to protect the frame twisting.
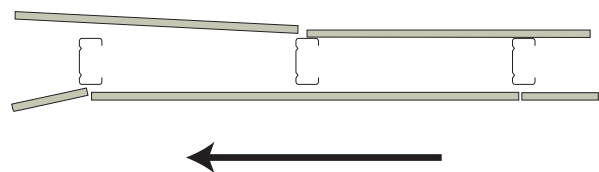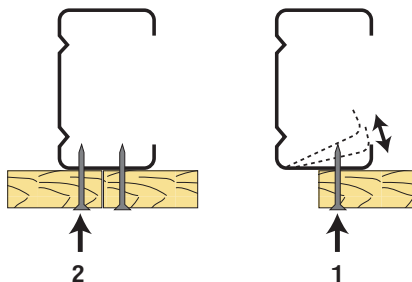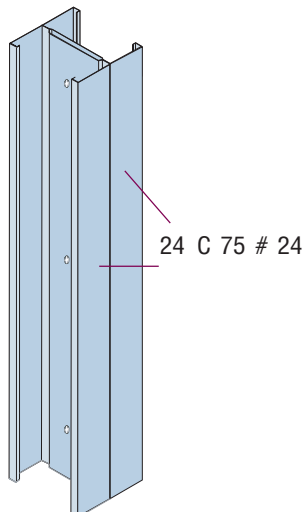

The correct Gypsum Board installation direction comparing to the stud

- To install the board to the frame, overlap each side of the junction for the best result in fire resistant and sound transmission control capability. When installing double layer partition, the junction on the same side of the sheet needs to be overlapping as well.
- In case the wall is higher than the frame and need to extend C stud, attach U stud approximately 20 cm. in length on both C stud and strain them with reweigh for a stronger result.
- In case the wall is longer than 12 m., Control joint needs to be installed to protect the wall from cracking due to building structure movement. To install the Control Joint, leave 10 mm. spaces between boards then cover spaces with TrimTex Magic Bead by attaching it to the edge of gypsum board on both sides of the wall with staple in every 15 cm. space. Then cover the space between TrimTex with Easy Joint Compound.
- Additional frame is needed for Partition Installation around doorframe and window area for extra strength (details are in installation manual)
- In case of electrical outlet installation, the outlets need to be installed on both sides of the partition, the position can not be back to back since it may reduce the gypsum board's sound transmission control and fire resistance capability. If the outlets need to be installed back to back, gypsum board needed to be installed inside the partition between the outlets.
- For most efficiency of sound transmission control and fire resistance capability of the partition system, use caulks substance to caulk the junction of the partition system.
- In case of installing high partition or the partition that carries heavy weight, strengthen the partition system with C stud by bracing the close sides together, then screw in every 30 cm. space (details are in installation manual).
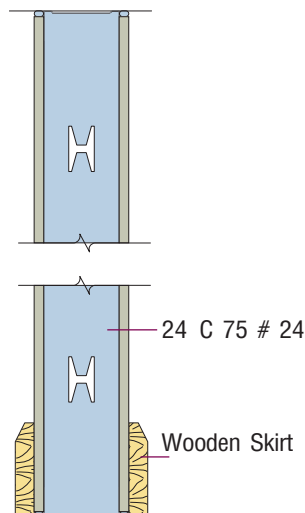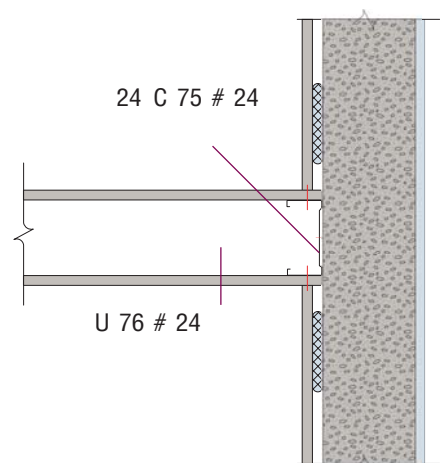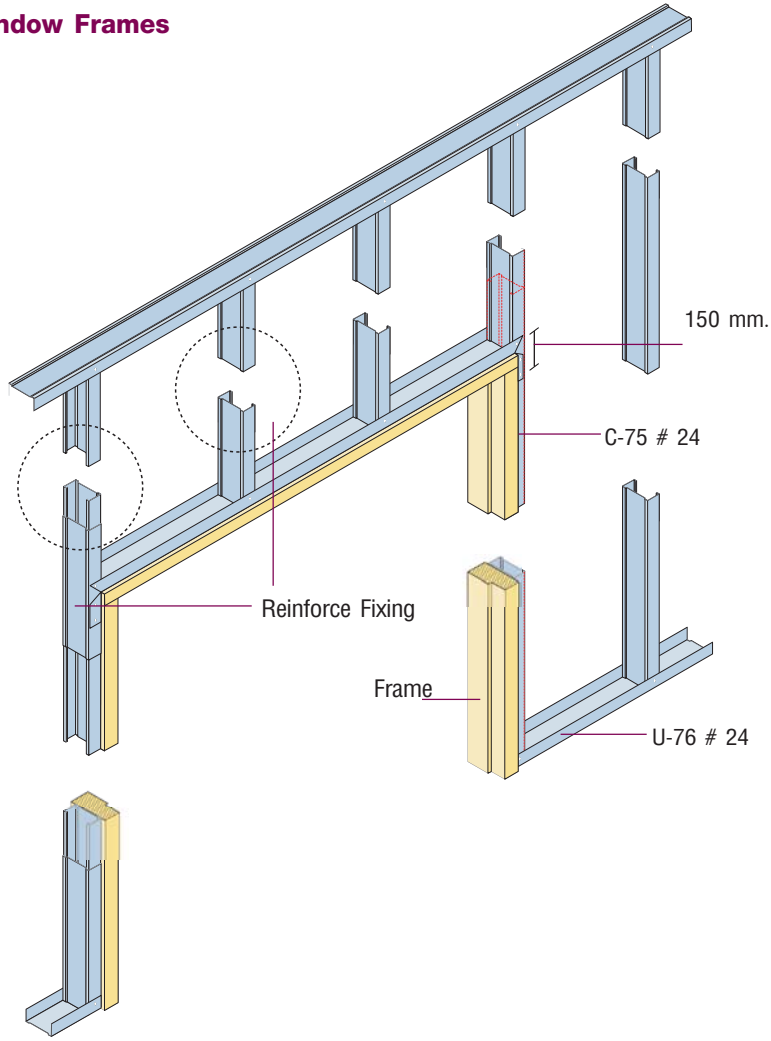
Installation Detail

Single Frame Partition

Twin Frame Partition

Stud Extending

24 C 75 # 24

20 cm.

U 76 # 24

Back to Back reinforce stud

24 C 75 # 24

Floor - Ceiling detail

24 C 75 # 24

Wooden Skirt

T-Junction

24 C 75 # 24

U 76 # 24

Door and Window Frames

150 mm.

C-75 # 24

Reinforce Fixing

Frame

U-76 # 24

Plug

Elephant
Gypsum Board

Wall Angle
C-Line # 24

Plug

Heat Insulation

C 75 # 24

Plug   Heat Insulation   Elephant Gypsum Board

Corner Joint

Elephant Gypsum Board

C-75 # 24

Partition End

Elephant Gypsum Board

C-75 # 24

Control Joint

Elephant Gypsum Board

Trimtex (Magic Bead)

10 mm.

Elephant Gypsum Board

Trimtex (Magic Bead)

Fire Insulation
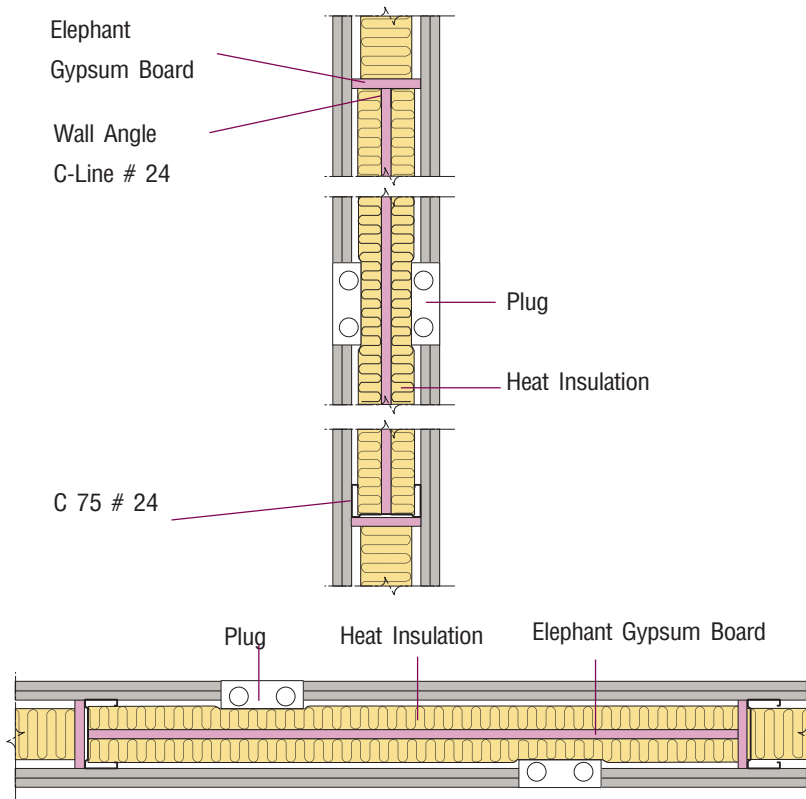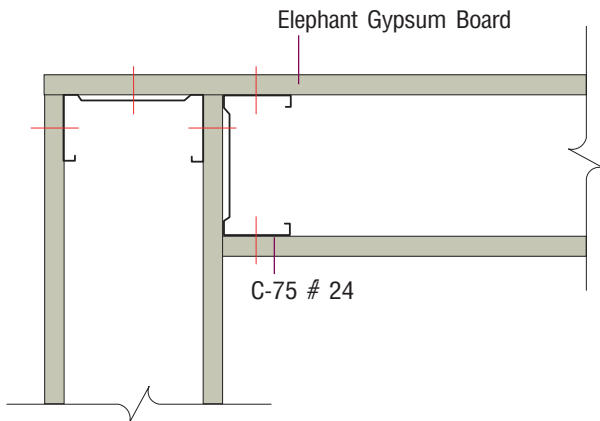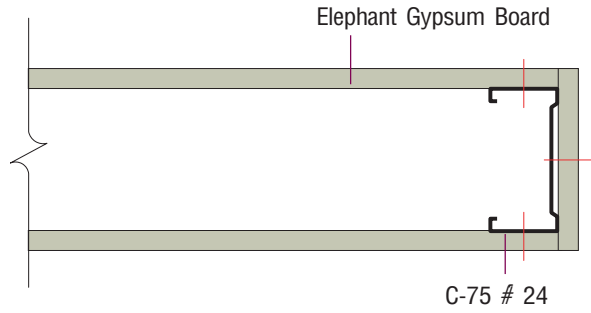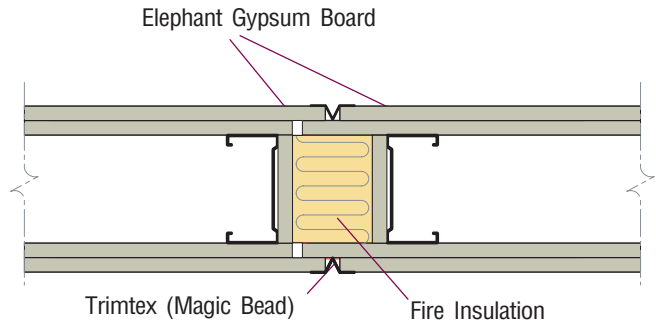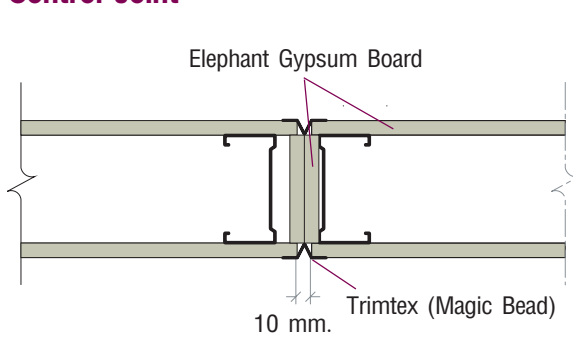
Technical Information Table

All system are the installation of Gypsum Board to C75 and U76 # 24 in single frame partition

Ref Code	Illustration	Application Detail	Nominal Thickness (mm.)	Weight (Kg/m^2)	STC (dB)	Fire Rating (min.)	Partition Grade
P01		Elephant Gypsum Board Standard thickness of 12 mm. 1 layer each side	99	19.5	35	30	Mudium Duty
P02		Elephant Gypsum Board Standard thickness of 12 mm. 1 layer each side line inside with sound insulation thickness 48 Kg/m^3 thickness of 60 mm.	99	22.4	44	30	Medium Duty
P04		Elephant Moisture Resistant Type MoistBloc thickness of 12 mm. 1 layer each side	99	23.1	35	30	Medium Duty
P05		Elephant Fire Resistant Type FireBloc thickness of 15 mm. 1 layer each side	105	28.3	38	60	Heavy Duty
P06		Elephant Fire Resistant Type FireBloc thickness of 15 mm. double layer each side	135	53.7	45	120	Heavy Duty

Picture showing step of installation

1. Mark the wall row on the floor and ceiling

2. Attach U76 on the floor, ceiling and aside of the wall follow the mark using concrete bolt in every 30 cm.

3. Attach C75 into U76 at every 60 cm. space

4. Attach the end of C75 to U stud by using reweigh or screw

5. Screw Gypsum Board to the frame leaving 10 - 16 mm. space from board edge. Each screw will be 20 cm. apart. In the middle of the board, each screw will be 30 cm. apart. Use black screw 25 mm. for a single layer partition and 38 mm. for double layer partition. Second sheet and joints of both layers need to be staggered.
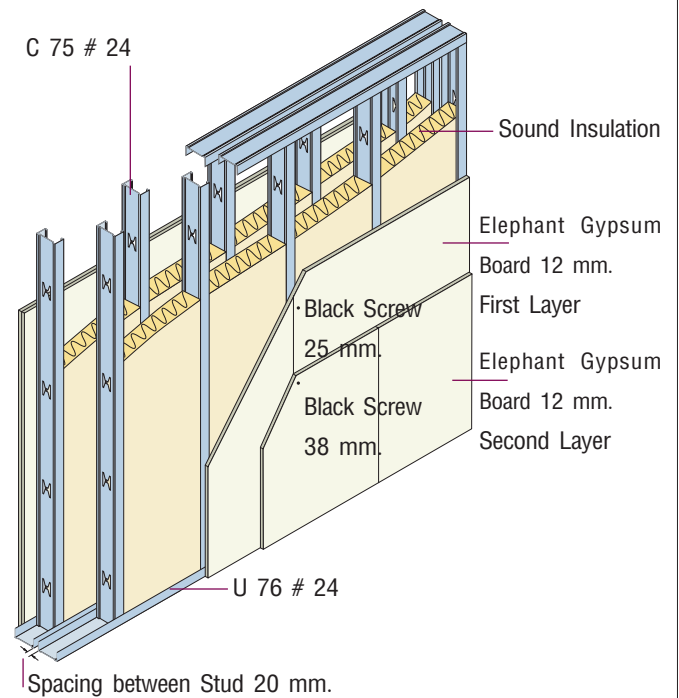

6. Cover the screw head and joint with Easy Joint Compound.

Twin Frame Partition

It is a Gypsum Partition System which was designed to have the best quality of sound transmission control. It is a combination of 2 sides of C75 and U76 Metal Frame Core. The frames need to be put apart in 20 mm. distance by interlacing C frames on each line. Line sound insulation sheet on both sides of the partition then cover both sides of the frame with Elephant Gypsum Board Standard thickness of 12 mm. by using screw. Then cover the joint and screw head with Easy Joint Compound.

With more space between the Partitions than the Single Frame Partition System and the separation of frames position, it helps to protect sound vibration passing thought the partition frame. Also lining sound insulation sheet in the partition space and double layer gypsum board, it can protect the sound up to 60 dB which gives maximum privacy to the room. This Gypsum Partition System is suitable for rehearsal room, karaoke room, home theatre, movie theatre and hotel room.

C 75 # 24

Sound Insulation

Elephant Gypsum Board 12 mm. First Layer

Elephant Gypsum Board 12 mm. Second Layer

Black Screw 25 mm.

Black Screw 38 mm.

U 76 # 24

Spacing between Stud 20 mm.

The System Component

Elephant Steel Stud Partition C75 # 24		Size 75x35mm thickness of 0.55 mm. length of 2.5 and 3.0 m.
Elephant Steel Stud Partition C76 # 24		Size 76x32mm thickness of 0.55 mm. length of 3.0 m.
Black Screw 25 mm.		Size 3.6 mm. length of 25 mm.
Black Screw 38 mm.		Size 3.6 mm. length of 38 mm.

## Twin Frame Partition installation

Mark both side of the frame line on the floor and ceiling by leaving 20 mm. space from one edge of the frame to the other. Attach U 76 to the spot marked on both sides. Use concrete bolt in every 30 cm. space then install C75 on both sides to the U76 in every 60 cm space. Interlace both sides of C 75 frame. Attach the end of C75 to U76 by using reweigh. Install sound insulation sheet between each line of C75 until the whole area is covered then cover both sides of the frame with Elephant Gypsum Board Standard thickness of 12 mm. Lift the bottom of the board 1 cm. above the floor. The junction of first and second layer on each side has to be overlap. Use black screw to fix the board to the frame by leave 10-16 mm. space from the edge of the board and leave 20 cm. space between each screw. As for the middle area of the board, screws will be placed 30 cm. apart from each other. 25 mm. length black screws will be used on the first layer and 38 mm. length screws will be used on the second layer then cover the junction and screw head with Easy Joint Compound.
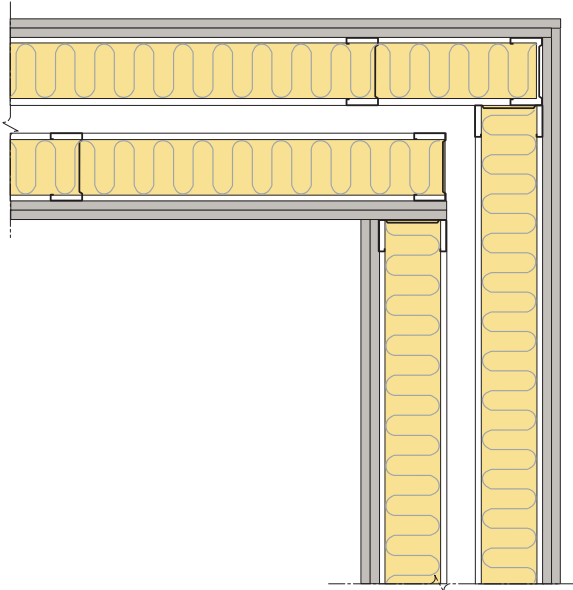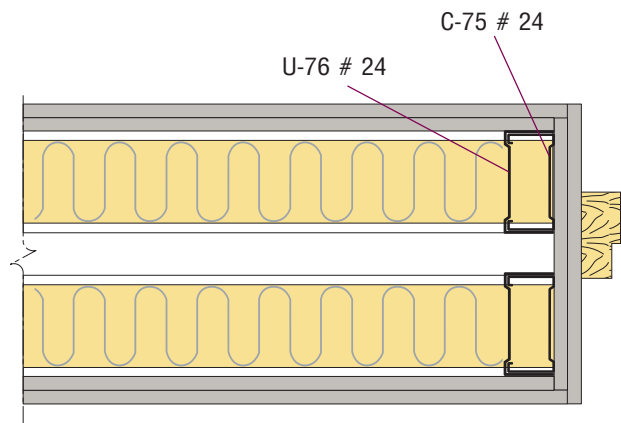
Installation Detail

Cross Section

C-75 # 24

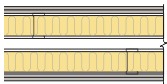Elephant Gypsum
Board Standard
12 mm.

Sound Insulation

U-76 # 24

Top
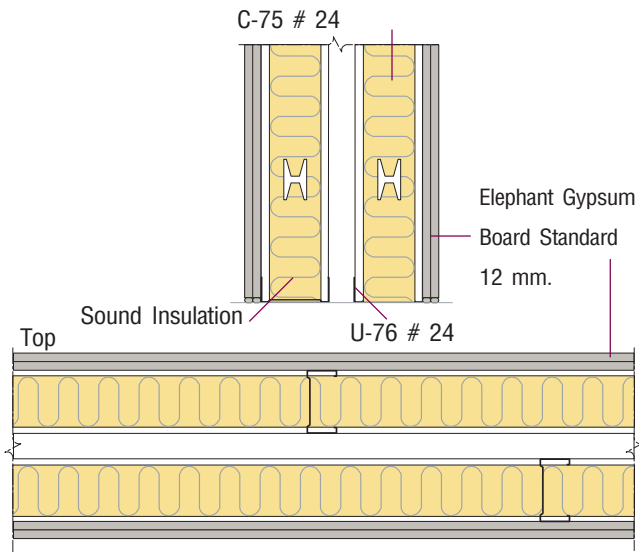
T-Junction
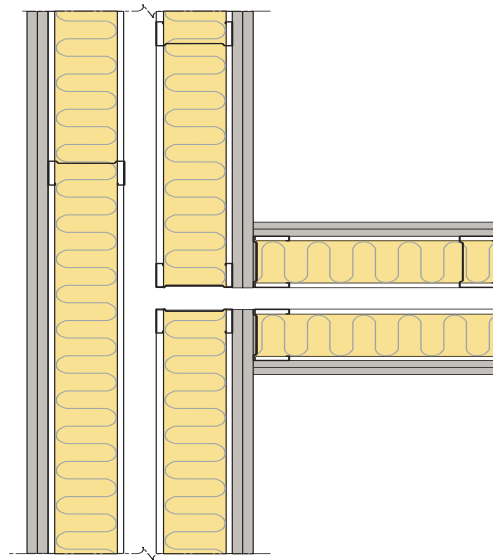
Partition Corner

Door and Window Frames

C-75 # 24

U-76 # 24

Technical Information Table

Ref Code	Illustration	Application Detail	Nominal Thickness (mm.)	Weight (Kg/m^2)	STC (dB)	Fire Rating (min.)	Partition Grade
P03		Elephant Gypsum Board Standard thickness of 12 mm. with double layer each side attach on the twin frame and line inside with sound insulation thickness 48 Kg/m^2 thickness of 60 mm.	218	43.8	60	-	Heavy Duty

Picture showing step of installation

1. Mark both sides of the frame line on the floor and ceiling by leaving 20 mm. space from one edge of the frame to the other.

2. Attach U 76 to the spot marked on both sides. Use concrete bolt in every 30 cm. space.

3. Install C75 on both sides to the U76 in every 60 cm space. Interlace both sides of C 75 frame. Attach the end of C75 to U76 by using reweigh. Install sound insulation sheet between each line of C75 until the whole area is covered

4. Screw the first layer of Gypsum Board to the frame leaving 10 - 16 mm. space from board edge. Each screw will be 20 cm. apart. In the middle of the board, each screw will be 30 cm. apart. Joints of both layer need to be staggered.
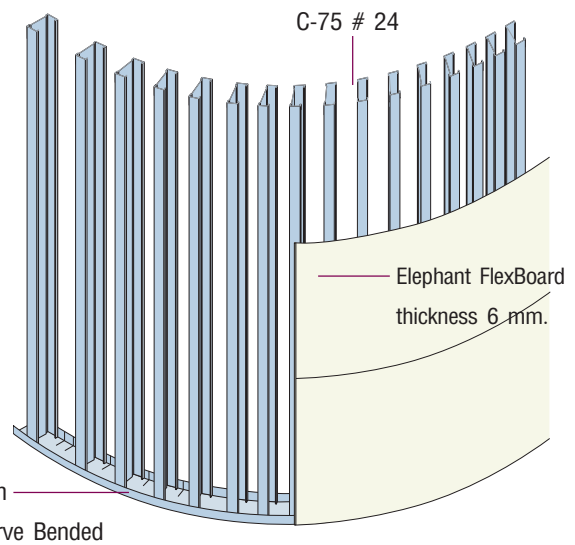

5. Attach the second layer of Gypsum Board on the first layer by using black screw 38 mm. the same way as attaching the first layer. The junction of first and second layer on each side has to be overlap.

6. Cover the screw head and joint with Easy Joint Compound.

Curve Partition

It is a Gypsum Partition System that can be bended in to different variation of shapes. It is a combination of Metal Frame Core C75 and U76 which are cut and bended to desire shapes. Cover both sides of the frame with Elephant Curved Gypsum Board, Flex Board, and thickness of 6 mm. which can be bended more than general gypsum board without any use of water. It is easy to install, gives smooth and beautiful surface, serves all variation of designs and still has all the good capability of Gypsum Partition System. It is suitable for indoor usage which need luxury beautiful decoration and gimmick of the design as well system assembly.

C-75 # 24

Elephant FlexBoard thickness 6 mm.

U-76 # 24 with Pe-Cut and Curve Bended

The System Component

Elephant Steel Stud Partition C75 # 24		Size 75x35 mm. thickness of 0.55 mm. length of 2.5 and 3.0 m.
Elephant Steel Stud Partition C76 # 24		Size 76x32 mm. thickness of 0.55 mm. length of 3.0 m.
Black Screw 25 mm.		Size 3.6 mm. length of 25 mm.

The Installation of Curve Partition

Mark installation area of the Curve Partition on the floor and ceiling then prepare U76 by cut one side of the stud wing and bottom of the frame in every 5 - 10 cm. space depend on diameter of the curve partition. Then attach U stud on the floor and ceiling by using expansion bolt follow the distance of C stud. Then install C75 to U76 by leaving space between each frame following the table below which depending on curve partition diameter and the bending process. Fix the end of c 75 to U 76 by using reweigh.

Attach Curve Gypsum Board Flex Board to the frame by laying the board horizontally to C stud and leave 30 cm. spaces between each screw on every frame. Each screw will be 30 cm. spaces in between except the two ends of the board that each screw will only be 15 cm. spaces in between. Then cover the junction and screw head with Easy Joint Compound.

Frame's Space Regulation for Installing C75

Curve radius of Partition (mm.)	Space between each frame (mm.)			
	FlexBoard 6 mm.	Elephant Gypsum Board Standard 9 mm.	Elephant Gypsum Board Standard 12 mm.	Elephant Gypsum Board Standard 15 mm.
450 - 600	150w	-	-	-
600 - 900	150d	-	-	-
900 - 1000	200d	150w	-	-
1000 - 1500	200d	200w	150w	-
1500 - 2000	200d	250w	200w	-
2000 - 2500	200d	300w	200w	150w
2500 - 3000	250d	350w	300w	200w
3000 - 4000	300d	450w	400w	200w
4000+	300d	450w	500w	350w

Remark : d is Gypsum Board Dry Bending

w is Gypsum Board Wet Bending (by use water to wet to all over the board before bending).

Different thickness of Gypsum Board Standard can be installed in to curve only by Wet . Bending Process

Instruction for Gypsum Board Bending

Wet Bending Process: (WET) (In case the curve diameter is 45 - 60 cm.)

1. Use wet cloth or roller to apply a bit of water to both front and back sides of board (Avoid applying water to the edge of the board because the water will cause the edge to be soften when screw in)

2. Leave it for about 10 minutes then repeat 1st and 2nd steps 2 more time (try lifting to test the softness of the board)

3. Bend the board to fit the design or attach on the frame

4. Use Black screw to fix Gypsum Board and frame together then cover the joint with Easy Joint Compound

Dry Bending Process (Dry)

Dry Bending Process is easy, fast and durable. Flex Board was designed to be bended without the use of water.

1. Bend it directly on the frame

2. Use Black screw to fix Gypsum Board and frame together by gently screwing on each Gypsum Board one by one to make sure the Board is as close to the frame as possible. Cover joint with Easy Joint Compound.

Installation Detail

Pe-cut every 5-10 cm.

Stud bending (Curve)
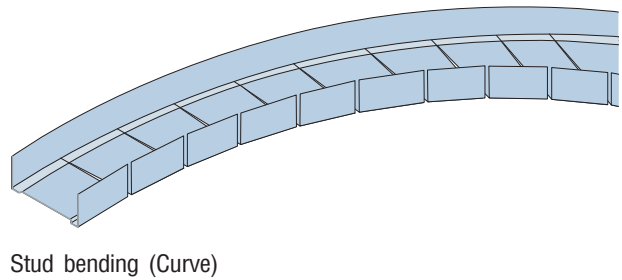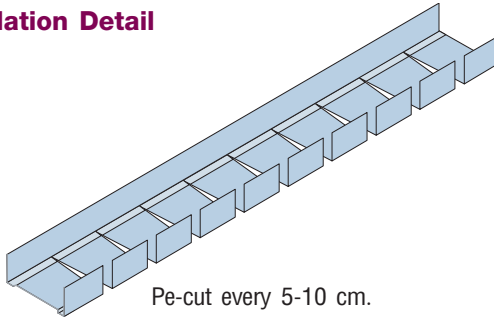
Picture showing step of installation

1. Mark installation of the Curve Partition on the floor and ceiling.
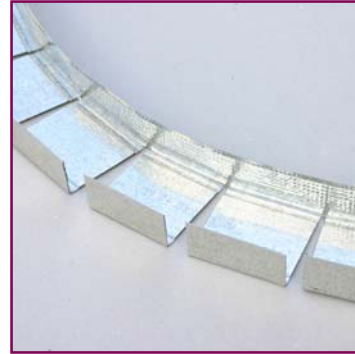
2. Prepare U76 by cut one side of the stud wing and bottom of the frame in every 5 - 10 cm. space depend on diameter of the curve partition.

3. Then attach U76 on the floor and ceiling by using expansion bolt follow the distance of C stud.

4. Install C75 to U76 by leaving space between each frame following the scheduled which depending on curve partition diameter and the bending process. Fix the end of c 75 to U 76 by using reweigh.

5. Attach Curve Gypsum Board Flex Board to the frame by laying the board horizontally to C stud and leave 30 cm. spaces between each screw on every frame. Each screw will be 30 cm. spaces in between except the two ends of the board that each screw will only be 15 cm. spaces in between.

6. Cover the junction and screw head with Easy Joint Compound.

Koolrock Partition

It is a Solid Partition System which consists of Koolrock and U stud 52. Its center is a combination of Casting Plaster and Polystyrene Foam. Cover both sides of the surface with Gypsum Board. Both edges of the board have Tongue & Groove character. To install, slide the sheet on U52 and lock both Tongue & Groove on every sheet together. Then cover the junction with compound .It is easy to install and convenient because it is a pre made wall which does not need to be screwed. The solid sheet can be as strong as brick wall (tested and graded to serve Duty on B5 5234 standard which is the highest grade for Partition) and with the total thickness of 5 cm. it helps to have more space in the building area. Gypsum Board makes surface smooth. It can cover all system work by hiding wire pipe or electric outlet in the wall.

Other than that, because its Casting Plaster and Polystyrene Foam Center, it has Sound Transmission Control, Heat Resistance and fire Resistance capabilities. It is suitable for using as partition in the house, Manufacture, Department store and Gymnasium.

Koolrock

U 52
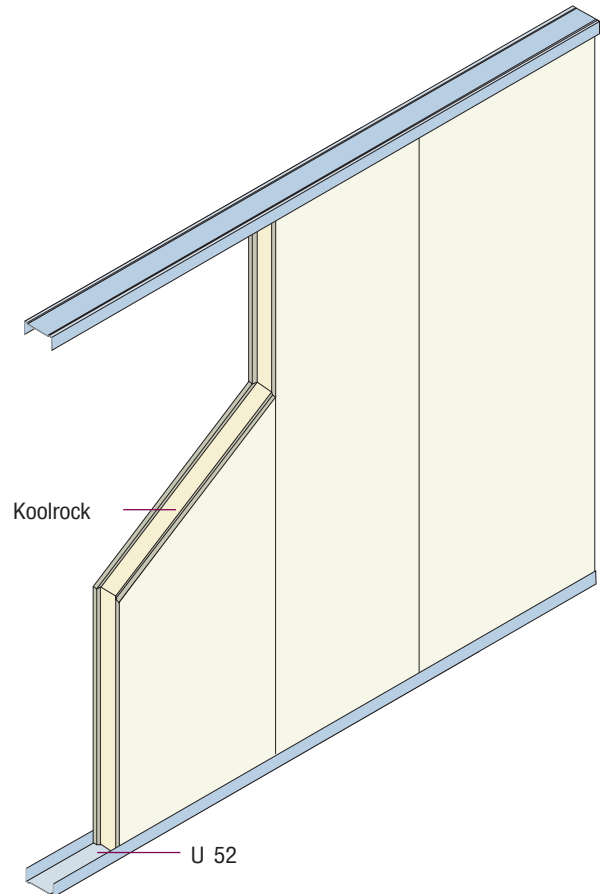
The System Component

Elephant U52		Size 52 x 25 mm. thickness of 0.45 mm. length of 2.5 m.

Koolrock system Installation

Mark the spot on the floor and ceiling, then install U52 to cover all ceiling area. Starts installing the frame on the side you need. Attach the frame on the floor about half the length of the wall. Attach U52 by using expansion bolt in every 30cm. space. Cut Koolrock 1 cm. shorter than the height of the wall. Then slide Koolrock in between U 52. The first sheet has to be turned the Groove side to the wall and pushed until the edge of the sheet hit U52 frame on the wall. Then push the next sheet in the same way and have the 2nd sheet lock wit Tongue of the first sheet. Repeat this process by slowly attach U52 to the floor while installing so that the sheet can be easily slide. After the last sheet, attach U52 on the floor and the other side of the wall left until completed. Cover the junction with Easy Joint Compound, leave to dry, bluff and decorate as desired.

- **Conduit Installation**

  Mark the installation area of conduit or electrical connector on the surface. Use utility knife to cut the surface to remove gypsum board and plaster. Make the cutting area a bit deeper than actual size. Bury the conduit of electrical connector into Koolrock panel. Then cover the surface with Easy Joint Compound by giving sometime to let the stucco settle then coat one move time,

- **Installation of wall corner area**

  Cover U52 frame along the height at the end of Koolock on the main wall. Then bury the wood size 3x3x10 cm. in to the center of Koolrock sheet on the connecting side by leaving 60cm.space between the woods. Cover space between the wood with Easy Joint Compound and screws on both sides of the wood. Move Koolrock sheet, which already installed the wood, close to the sheet covering U52 frame. Fix both sheets together by using screws length of 21/2" - 3" from the side that cover with U52 frame. The screws need to go through the wood firmly on every spot. Then cover internal and external junctions which cover U 52 frames by using Easy Joint Compound.

- **Installation of door frame area**

  When installing Koolrock up to the door frame area, the space between each U52 on the floor is equal to the wide of door frame. Cut Koolrock sheet the same size as door frame height and have the dept of 10-15cm. It is a shoulder and pre-cut of the shoulder area 10 cm. deeper. Preparing it as the receiver for U 52 to insert in to that extend shoulder area. Install the next Koolrock sheet by leaving space follow the U frame on the floor. Cut the sheet in to the same shoulder shape then install a piece of wood size 3x3x10 cm. in to the center of the sheet. Cover with Easy Joint Compound and screws tightly on both sides and use as door frame holders in every 60 cm. distance. Then cover the edge with U52 on both sides of the door frame. Attach T Square around the floor area which both sides of the door frames will be installed to. Cut Koolrock sheet to the size of space above door frame by installing piece of wood to the center of the sheet then cover around the edge with 2 pieces of pre-cut U 52 frame.

  Install the particular Koolrock by inserting end to the top of U stud then move both sides of U stud which is covering bottom part to fall in to the pre-cut around both sides of the shoulder area to help strain and support the top panel. Then install the door frame to Koolrock sheet by using 2.5" - 3" screws fixing doorframe to the sheet center. Decorate the area around door frame with wooden skirt or Elephant Trimtex, and then cover junction and screw heads with Easy Joint Compound.

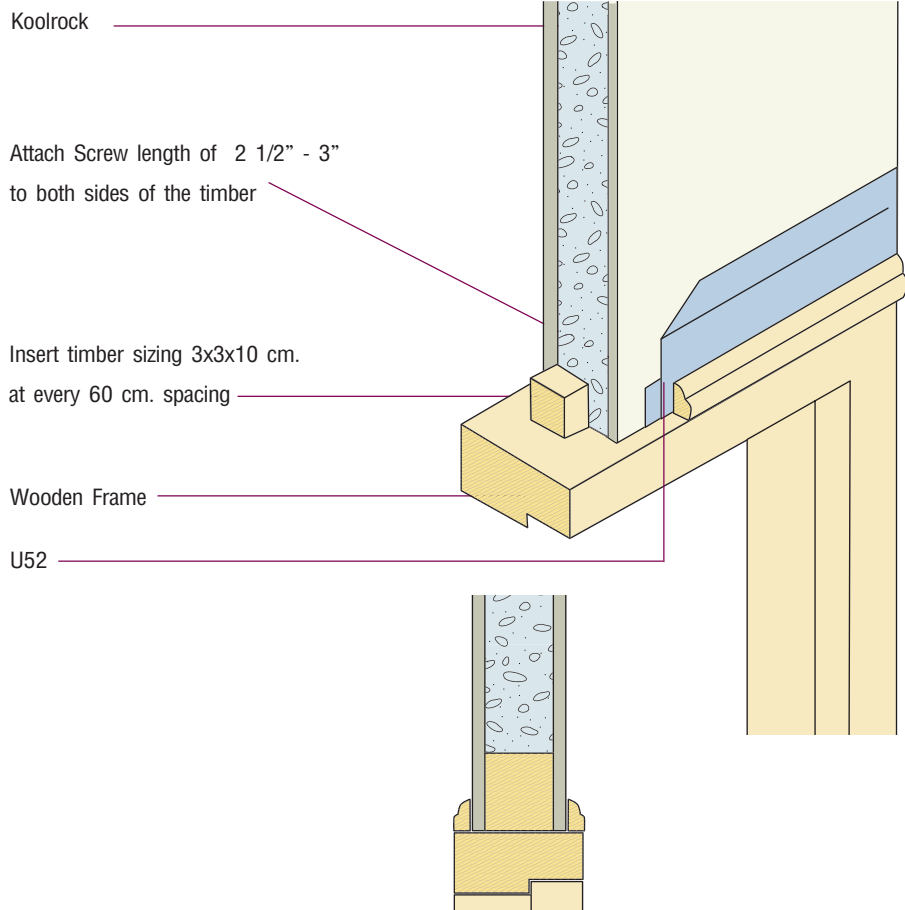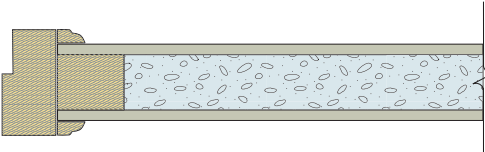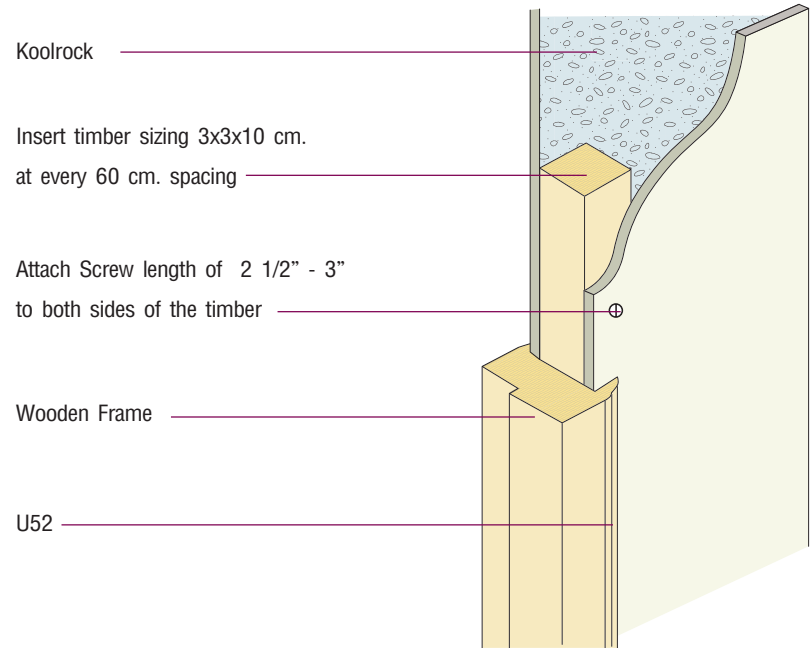- **Installation of window frame area**

  Install the Koolrock regularly then measure the size of the window and mark the spot. Saw the ticket window 2-3 mm. bigger than the actual size of the window. Install a piece of wood size 3x3x10 cm. in the center of the sheet. Cover with Easy Joint Compound then screw both sides firmly. Cover around the edge with U52 then attaches the window frame by using long screw size 21/2" - 3" . Fix the window frame to wooden inside the sheet center then decorates window frame area with wooden skirt or Elephant Trimtex, and then cover junction and screw heads with Easy Joint Compound.

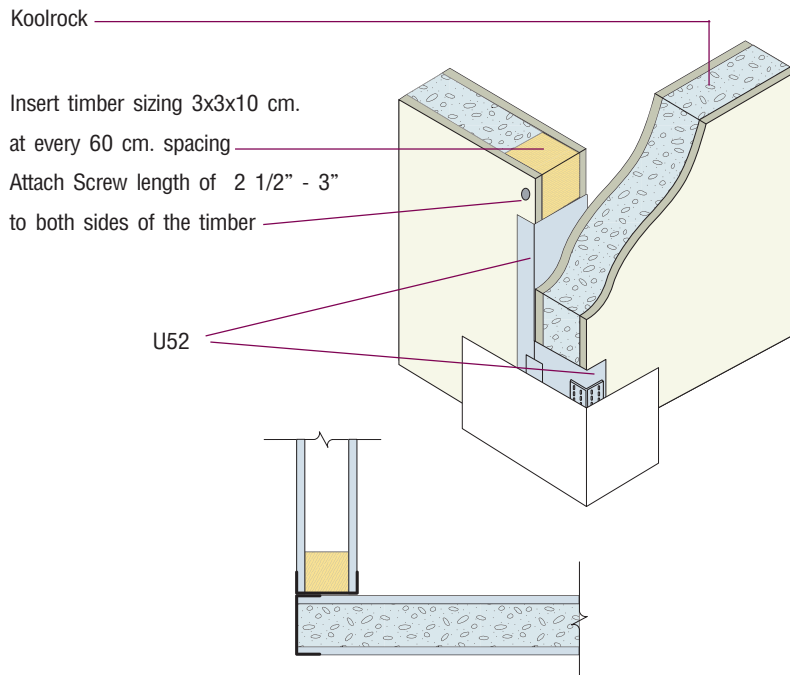- **Installation of high partition (not higher than 4 meters)**

  In case the partitions height is higher than the sheet length but not higher than 4 meters, the sheets junctions need to be no less than 30 cm. overlapping in vertical connectivity.

Installation Detail

Installation of Frame, Door and Window

Koolrock

Insert timber sizing 3x3x10 cm.
at every 60 cm. spacing

Attach Screw length of   2 1/2" - 3"
to both sides of the timber

Wooden Frame

U52

Koolrock

Attach Screw length of   2 1/2" - 3"
to both sides of the timber

Insert timber sizing 3x3x10 cm.
at every 60 cm. spacing

Wooden Frame

U52

Corner Application

Koolrock

Insert timber sizing 3x3x10 cm.
at every 60 cm. spacing
Attach Screw length of 2 1/2" - 3"
to both sides of the timber

U52

Inserting conduit

Koolrock

Conduit

Pe-Cut for
inserting conduit

Easy Joint compound for
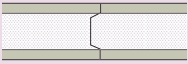plugging a hole

Insert timber for
attaching socket

Socket

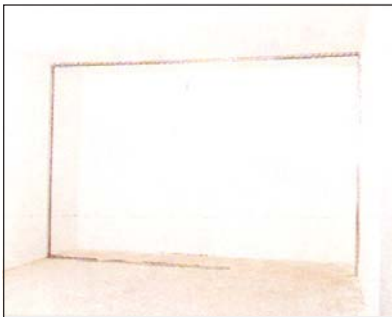## Wall Extending (not more than 4 meters)
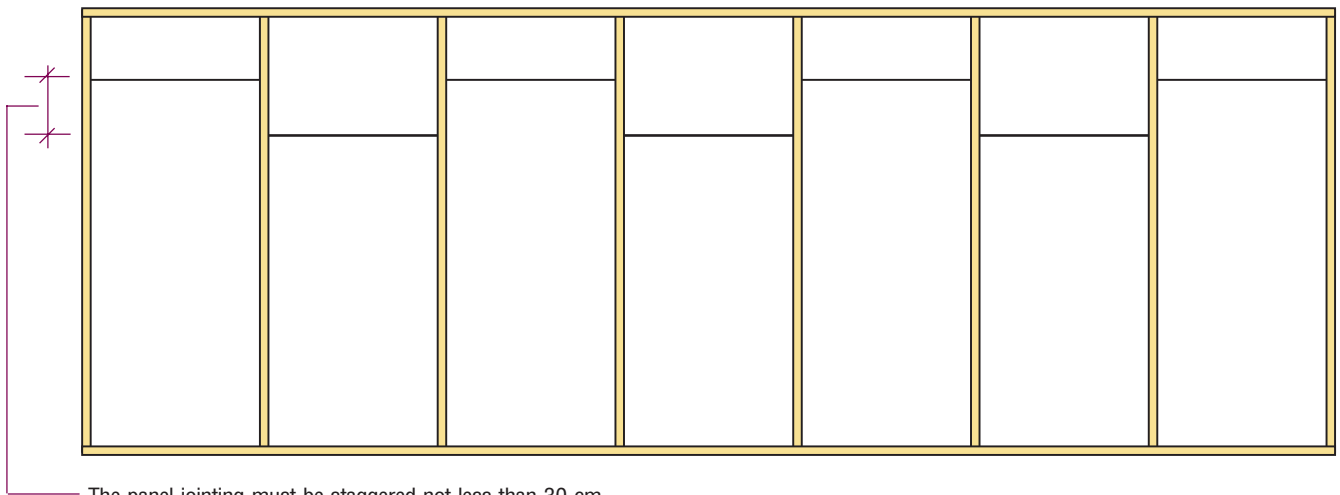
The panel jointing must be staggered not less than 30 cm.

Technical Information Table

Ref Code	Illustration	Application Detail	Nominal Thickness (mm.)	Weight (Kg/m²)	STC (dB)	Fire Rating (min.)	Partition Grade
P07		Koolrock thickness of 5 cm. attach on U 52	50	29.7	33	60	Severe Duty

Picture showing step of installation

1. Mark the spot on the floor and ceiling, then install U52 to cover all ceiling area. Starts installing the frame on the side you need. Attach the frame on the floor about half the length of the wall. Attach U52 by using expansion bolt in every 30cm. space.

2. Cut Koolrock 1 cm. shorter than the height of the wall. Then slide Koolrock in between U 52. The first sheet has to be turned the Groove side to the wall and pushed until the edge of the sheet hit U52 frame on the wall.

3. Then push the next sheet in the same way and have the 2nd sheet lock wit Tongue of the first sheet. Repeat this process by slowly attach U52 to the floor while installing so that the sheet can be easily slide.

4. After the last sheet, attach U52 frame on the floor and the other side of the wall left until completed. Cut Koolrock to 1.5 cm. smaller than the remaining space on the wall and 30-40 cm. shorter than actual height. Insert in to the remaining space on C52 frame.

5. Cut the last joint sheet 2.5 cm. shorter than actual height then support with a piece of gypsum board to raise the joint sheet to fit in U 52 frame on the ceiling perfectly.

6. Cover the junction with Easy Joint Compound, leave to dry, bluff and decorate as desired.

About

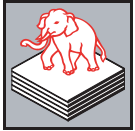## The Siam Gypsum Industry (Saraburi) Co., Ltd.

Siam Gypsum is the market leader in the design, manufacturer and supply of Gypsum Wall and Ceiling solutions throughout the ASEAN Region. Widely recognized from the "Elephant" brand, Siam Gypsum has gained the confidence and trust from the market due to the consistency and quality of its products and its focus on continuous improvement.

Siam Gypsum is part of the Lafarge Boral Gypsum Asia (LBGA) group of companies. The Lafarge Corporation (France) and Boral Ltd. (Australia) are globally recognized leaders in the construction materials supply industry. LBGA is the largest manufacturer of Gypsum based products in Asia. With manufacturing and sales operations in 7 countries and the Middle East, it has the technology and commitment to deliver internationally standardized products to fully meet the growing demands of its customers.

Siam's "Elephant" Gypsum Board is trusted by not only all Thai customers but by customers in over 35 countries to which it exports its products.

Siam Gypsum Training Center

Siam Gypsum also aims to deliver exceptional customer satisfaction, not only through the supply of quality products, but by providing education and training in internationally designed installation techniques to achieve the best finish possible. To do this Siam Gypsum opened its state-of-the-art Training facility in 1986. Siam Gypsum offers both beginner and advanced courses for all sections of the industry including customers, installers, architects, contractors and distributors. Today the Siam Gypsum Training Center is a modern, vibrant idea-generating center that will enable its customers to grow with the Company towards becoming the benchmark in global Gypsum solutions.

The Siam Gypsum Industry (Saraburi) Co., Ltd.
1 Siam Cement Road, Bangsue, Bangkok 10800 Thailand
Tel: +66 2 555 0022   Fax: +66 2 555 0003

Siam Gypsum