

ELEPHANT
Gypsum Board

Elephant ProWall

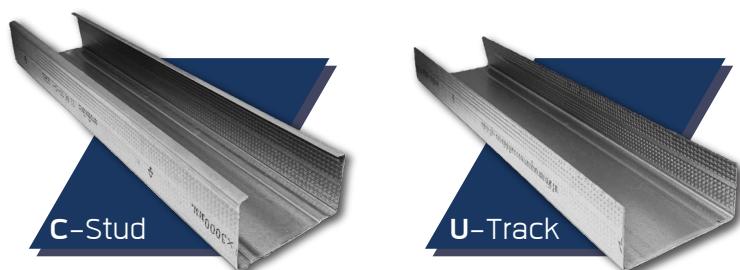
Partition Metal Profile



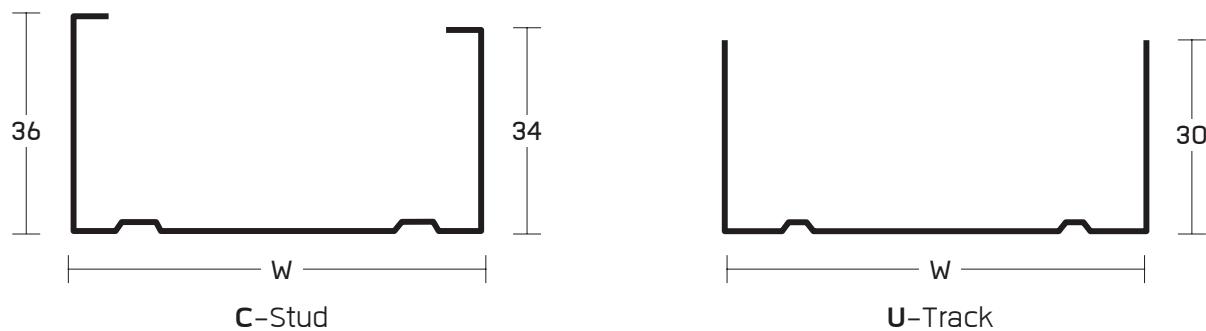


ProWall Partition Metal Profile, Elephant Brand

The metal profile for installation of gypsum boards for interior partition, certified by Thai Industrial Standard (TIS 863-2532). Made from Hot-Dip Galvanized Steel following TIS 50-2561 for superior corrosion resistance, consistently formed into C and U shape.



Cross Section View



Thickness (mm)	Stud	Height (mm)	Actual Width (mm)	Length (m)	Estimated Partition Thickness (mm) 12 mm Gypsum Board	Estimated Partition Thickness (mm) 15 mm Gypsum Board
0.52**	C 50	36, 34	50	3.0	76 (3")	82 (3.2")
	U 52	30	52	3.0		
	C 64	36, 34	64	3.0	90 (3.5")	96 (3.8")
	U 66	30	66	3.0		
	C 74	36, 34	74	3.0	100 (3.9")	106 (4.2")
	U 76	30	76	3.0		
	C 92	36, 34	92	3.0	118 (4.6")	124 (4.9")
	U 94	30	94	3.0		

* For 12 mm standard gypsum board.

** Deviation following TIS 50-2561 standard.

Features



Strong & Safe

Manufactured from high quality steel, has a consistency thickness. Formed by following TIS 863-2532, ensuring strong and safe system's structure, and has a greater strength than regular partition stud.



Rust Resistant

By dipping in Zinc following TIS 50-2561, make Elephant ProWall has a thicker rustproof layer than regular partition stud,
**slowing the corrosion processing time.*



Easy & Fast Installation

With design and modern production, ensure every pieces' size meet with standard, make the user able to install them easier and faster.



Lightweight

Lighter than wood profile but much more stronger.



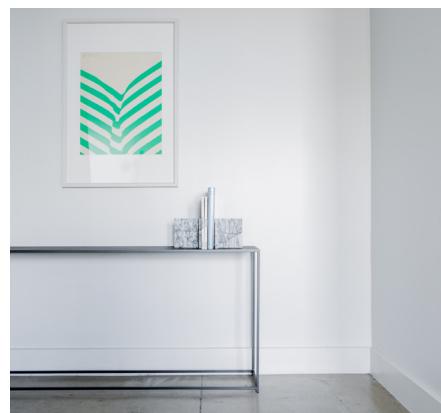
Economical

Reduce labor wage and installation time.



Durable

Free from termites and other insects, able to install in any weather, last longer than other partition studs.

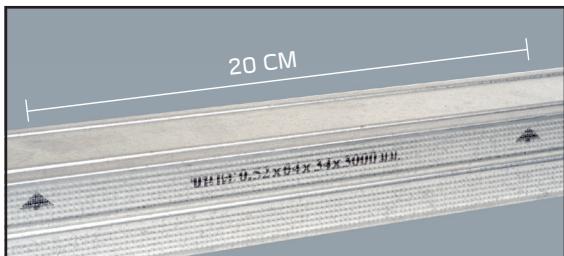


*Corrosion is one of the main factors affecting suspended ceiling safety since metal profiles are not seen after completion of ceiling work. There is no warning of insecure ceiling. All Elephant Metal Profiles, gain a corrosion-resistant with minimum (zinc coat) galvanizing of 220 g/sgm (Z22), which is thicker than 80% of similar profiles in the market (120-180 g/sqm, Z12 – Z18). The corrosion test can only be made in the laboratory, but we can hold an easy comparison by putting 2 types of metal profile into salt water and measure how long they become rusty.

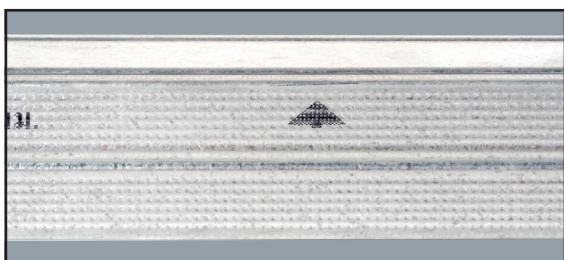
Unique Characteristics



Elephant Brand printing on the stud, easy to verifying.



Printed arrows indicate the length on the stud at every 20 cm for an easy installation.



Concave pattern all along the stud, allow the easier screw applying.

Convex line all along the stud, enhance it's strength.

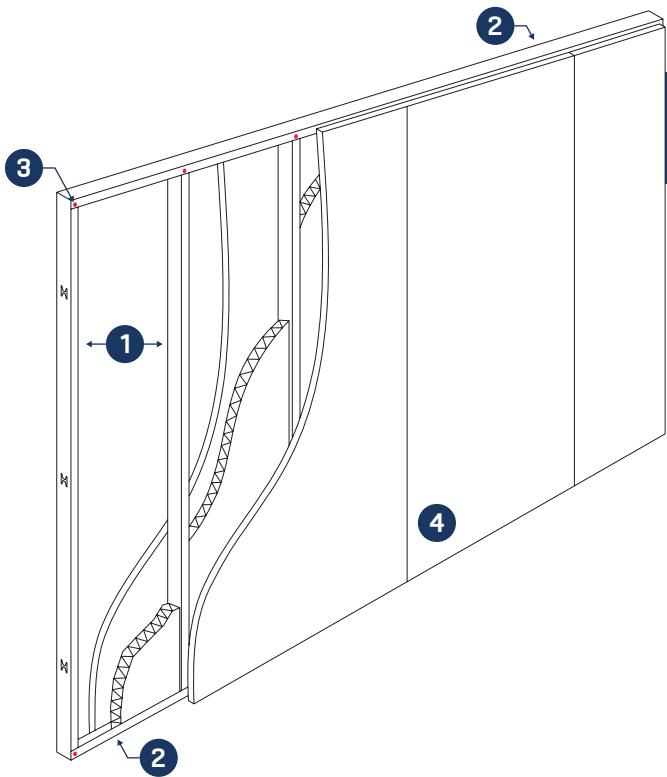
Rust Resistant

In addition to strength that meet with TIS 863-2532 standard, Elephant ProWall also enhanced with rust resistant by coating with Zinc layer thicker than 220 g/m^2 which much thicker than any other partition studs by 80%, reducing the risk of corrosion that cause damage to the structure.

When apply Salt Spray Test* following ASTM B117-97 standard for 300 hours on both Elephant ProWall and another regular partition stud, the results are appear on the figures below.

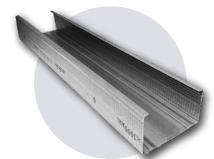


*Salt Spray Test is a corrosion acceleration of an exterior non-polluted coastal area at 100-120 times faster than normal condition

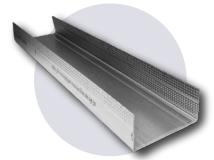


Prowall Partition System Components

1) Elephant Prowall C-Stud



2) Elephant Prowall U-Track



3) Elephant Truss Head Screw 10 mm

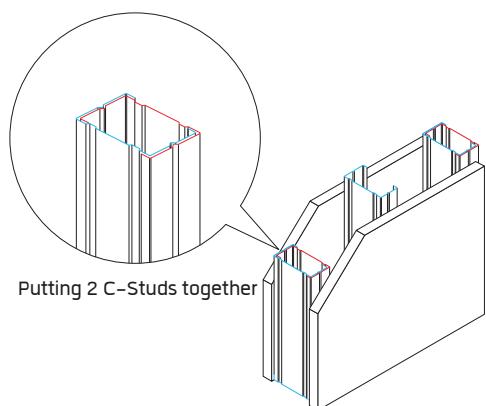


4) Elephant Gypsum Board
12 mm or 15 mm

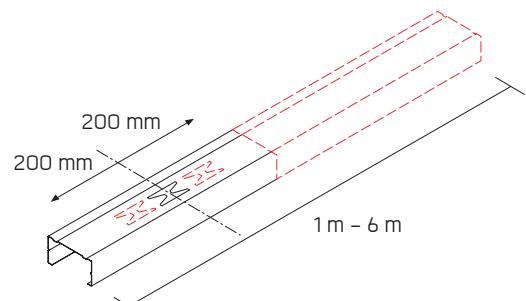


Variety of application

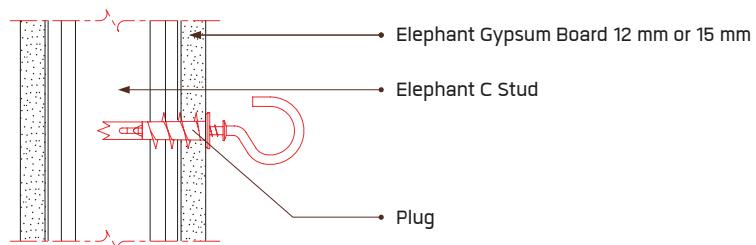
Apply for a box stud by putting 2 C-Studs together in order to enhance the strength of partition.



Tailor-made partition profile is available upon request, e.g. customize length or thicker stud.



Applicable with other accessories e.g. 10 kg and 30 kg plug.



Installation Guide



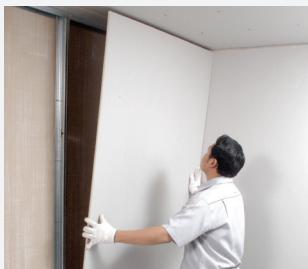
- 1 Mark the partition line on both floor and ceiling.



- 2 Fix ProWall U-Track to the floor and ceiling with expansion bolt spaced every 60 cm. Left the space between first/last fixing point and end of the track at 5 cm or less.



- 3 Insert ProWall C-Studs into ProWall U-Track at every 60 cm then twist to lock them. Fix them with Elephant Truss Head Screw 10 mm (No need to add nogging except when installing door frame and/or build-in furniture where hanging are needed.)

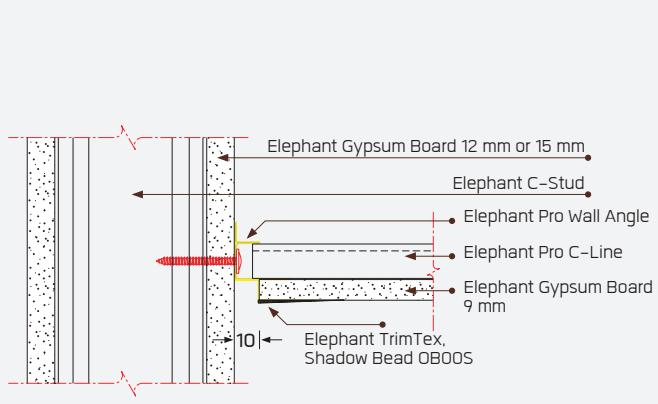


- 4 Fix gypsum board to partition profile with Drywall Screws spaced every 30 cm on the center and 20 cm along edges

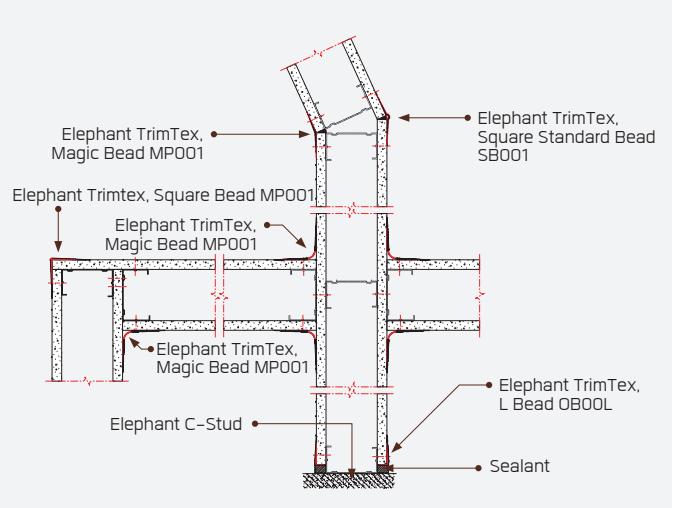


- 5 Coat the gypsum board joints 3 times with Elephant Jointing Compound and Elephant 5 cm Cotton Tape.

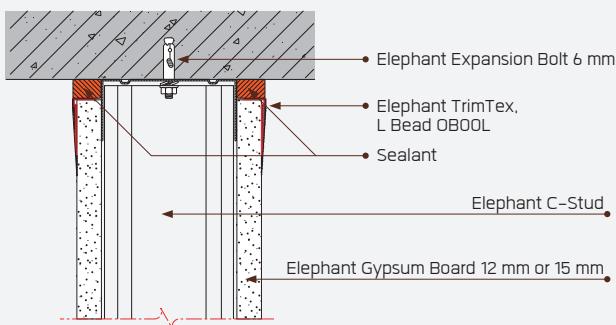
General Installation



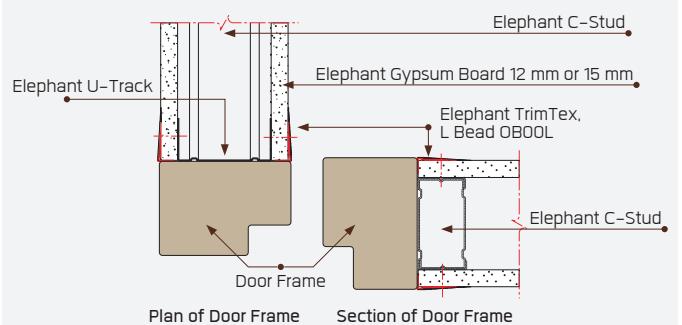
Partition – Ceiling



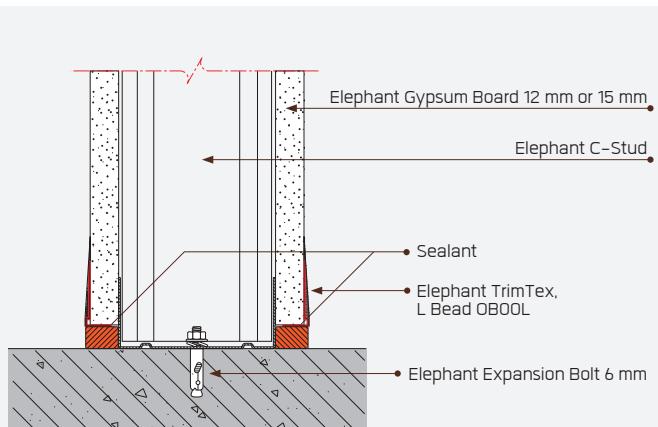
Partition – Partition



Partition – Concrete Ceiling



Partition – Door Frame



Partition – Floor

Specification

Elephant – Single Layer Interior Concealed Partition System

Gypsum Boards: Use Elephant Gypsum Board tapered edge

12mm or 15 mm size 1200x2400 mm

- Standard Plus for interior general usage, certified ASTM C 1396 and BS EN 520 standards.

- FireBloc for fire resistant required, certified

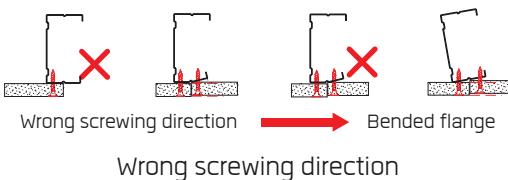
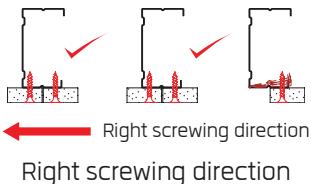
ASTM E 119 and BS 476 part 22 standards.

Metal Profile : Use Elephant ProWall Partition Metal Profile certified by TIS 863-2532 standard, produced from Hot-Dip Galvanized Steel coated with Zinc following TIS 50-2561 standard. Containing C-Stud 0.52 mm size 50x36, 64x36, 74x36 and 92x36 (mm) and U-Track 0.52 mm size 52x30, 66x30, 76x30 and 94x30 (mm) fix together with Elephant Truss Head Screw 10 mm and other tools following standard of

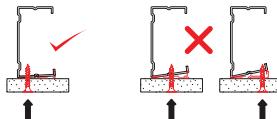
The Siam Gypsum Industry (Saraburi) Co., Ltd.

Installation Suggestion

When apply screw at the edge of the board, starting from the outer of the C-Stud then the inner in order to avoid bending the stud.

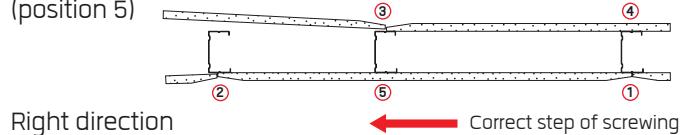


When apply screw at the middle of the board, apply to the closest point of the C-Stud body.



Screwing at the middle of the board

When installing the first board, apply screw at the edge (position 1 and 2) then install the board on the opposite side by apply screw at its edge (position 3) and at the middle (position 4) then screwing at the middle of the first board (position 5)



Question & Answer

1. Why C and U stud have a range of width? How to choose?

- Variety width of C & U Stud offered so that you can choose the one that fits to the size of door frame and window (which have many sizes). Moreover, the stud that wider and thicker can support a higher partition.

2. How many methods to fix the partition profile together? Which method is the most efficient?

- Now there are 3 methods, which are
 - 1) Riveting The most popular method since it uses the same equipment of fixing aluminum stud. But riveting makes too many steps which consumes time. Moreover, it is less strong than screwing and crimpler.
 - 2) Applying Screw Faster and stronger but could be a little more expensive than other method.
 - 3) Using Crimper Easiest and fastest, still economy since it does not require any other accessories. But this method could be difficult if work on a thick metal stud.

3. Is it possible to use screw for fixing the gypsum board to the stud for fixing the studs together?

- No, it is not recommended using screw for fixing gypsum board to the stud for fixing the studs together because it is designed to have leaned base in order to catch the gypsum board firmly. But it could loosen if fixing between studs. We suggest using screw for studs only to fix the studs together.

Other Quality Metal Products by Elephant Gypsum Board

Concealed Ceiling System



Concealed Ceiling Metal Profile
Elephant ProLine

- Strong, 5 times safer with high quality 0.52 mm metal.
- High rust resistant.
- Easy to install with range indicator on C-line at every 10 cm.
- Certified TIS 863-2532

ProLine



PlusLine

Concealed Ceiling Metal Profile
Elephant PlusLine

- Strong, 3 times safer with 0.40 mm high quality metal.
- High rust resistant.
- Easy to install with range indicator on C-line at every 10 cm.



ProLine Max

Concealed Ceiling Metal Profile
Elephant ProLine Max

- Produced from high quality metal.
- Able to carry the weight up to 100 kg/installing point.
- Compatible with large service system with 3 meters long hanging wire.

Partition System



Partition Metal Profile
Elephant PlusWall

- Economic option for interior partition metal profile produced with 0.40 mm high quality metal, strong and durable with rust resistant



ELEPHANT
Gypsum Board

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