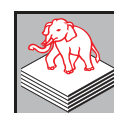




Elephant Gypsum ShaftWall System

Fast installation, excellent sound protection and fire resistance





Elephant Gypsum ShaftWall System

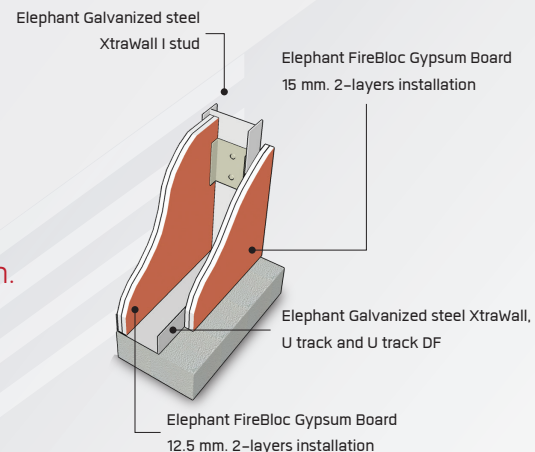
ShaftWall system is a gypsum wall system for shaft areas where all raisers run through every floor within the building such as : apartments, condominiums, hotels, offices or mixed use buildings. The system focuses on the ability to prevent fire on both sides for over 2 hours and protect sound. Quick and easy installation, suitable for applications where can access or work only one side. The system also can be installed up to 5 meters. These features allow Shaftwall system installation an alternative solution for drywall interior systems. It reduces the complication of work with many types of wall systems such as : masonry walls, lightweight concrete block walls, etc.

Gypsum ShaftWall System consists of a hot-dip galvanized steel, Elephant Xtrawall I stud, U track, 12.5 mm. and 15 mm. of Elephant FireBloc gypsum boards, which can be installed in conjunction with retainers and screws to make a ShaftWall installation easier and faster.

Feature & Benefits

Highlights and benefits of the Elephant ShaftWall system

- Suitable for applications where can access or work only one side.
- Quick, easy install with 100% gypsum wall composition.
- Strong and durable.
- Excellent sound protection up to 51 dB *when installed with insulation.
- Fire resistance for up to 2 hours.**
- Dry installation system, no stain.
- Cost-effective construction.



Separating Wall Application

Did you know??? What are the features of ShaftWall?

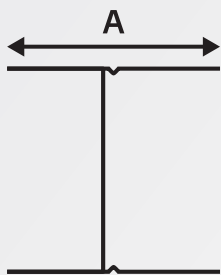
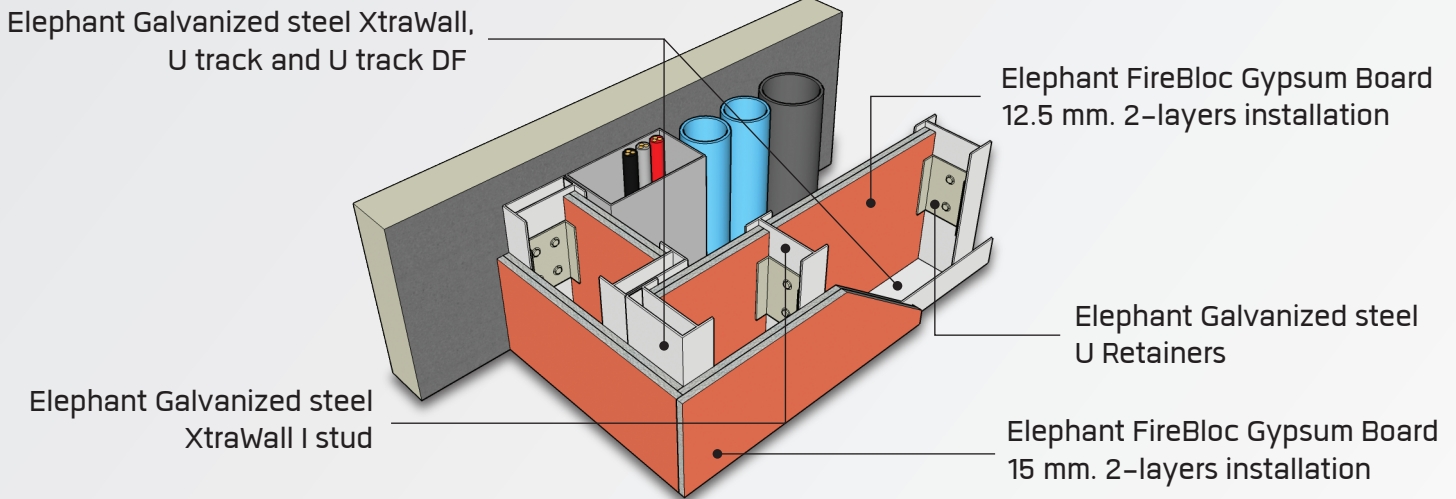
The most important thing is to prevent spreading of smoke and fire during a fire through various pipes openings of all raisers run through every floor within the building or shaft. ShaftWall should have passed standards fire rating test following at least 2 hrs, and the ShaftWall must be able to provide sound protection to maintain the privacy of each area and floor. The use of insulation can increase the sound protection performance even better. In addition to the walls, channels, pipes and system work,

ShaftWall can also be applied as a separated wall system to promote sound protection and fire resistance performance to gypsum walls as well.

* Test results from the lab of the Faculty of Science Chulalongkorn University according to ASTM E90 standard.

** Test results from the lab of the Faculty of Engineering Chulalongkorn University Fire Safety Research Center according to BS 476 Part 22 standard.

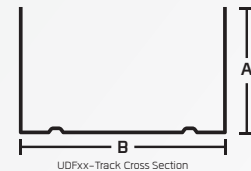
ShaftWall System



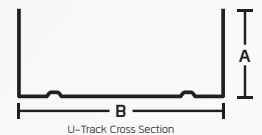
XtraWall Stud 07 Ixx
Thickness = 0.7 mm.
A = 40mm.
B = Stud height i.e. I64, I74, I92, I146



U Retainer
Thickness = 0.52 mm.
Fit with each I sections.



UDFxx Track
Thickness = 0.52 mm.
A = 50mm.
B = Track width i.e.
UDF66, UDF76,
UDF94, UDF148



Uxx Track
Thickness = 0.52 mm.
A = 30mm.
B = Track width i.e.
U66, U76,
U94, U148

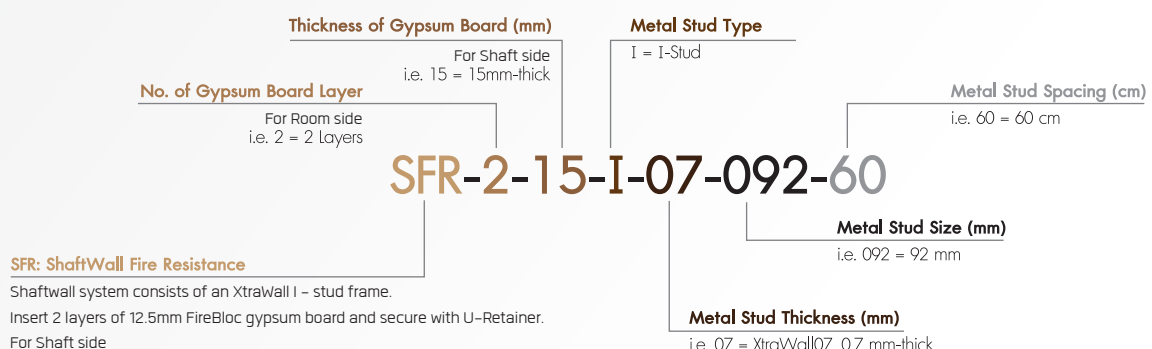
System Performance Selector (Recommended System)

Fire Rating 2 Hrs.**

ShaftWall System	Recommended Max. Height (m)	STC (dB) with Sound Insulation	STC (dB) without Sound Insulation	Wall Thickness (mm)
SFR-2-15-I-07-64-60	3.5	50	40	96
SFR-2-15-I-07-74-60	4.0	50	40	106
SFR-2-15-I-07-92-60	5.0	51	41	124

** Test results from the lab of the Faculty of Engineering Chulalongkorn University Fire Safety Research Center according to BS 476 Part 22 standard.


System Reference Code





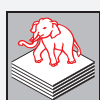
System Comparison Table

Comparison table for ShaftWall system

	Characteristics / Properties	Light weight concrete block wall system	Elephant Gypsum ShaftWall System
	Wall height	Up to 5 m. high	Up to 5 m. high
	Wall thickness	110 mm.	125 mm.
	Wall weight	90 kg / sqm.	50 kg / sqm.
	Installation speed	20 sqm. / manday	30 sqm. / manday
	Appearance	Depending on labor skill	Smooth and seamless
	Soundproof value	~40 dB	Up to 51 dB when installed with sound insulation
	Load capacity at deflection equal to L / 240.	N/A	24 kg / sqm.
	Fire rating	1-4 hrs depending on the design	Max 2 hrs.
	Related work description	Masonry work (wet system)	Gypsum board work only (dry system)

Specifications

Elephant Gypsum Shaft system consists of a hot-dip galvanized steel with a steel thickness of 0.7 mm. Xtrawall I studs, 0.52mm. thickness U tracks 30mm. and U DF tracks 50 mm. High and U retainers galvanized steel standards, TIS 50-2548 and JIS G3302, installed with Elephant FireBloc board in tapered edge, thickness 12.5mm, and 15 mm., Manufactured according to the standard. TIS 219-2552, ASTM C 1396 and BS 1230, 2 classes on each side, has a fire-resistance rate of not less than 2 hours, passed the test standards of BS 476 part 20, 22 or ASTM E119 and can be filled ShaftWall cavity with glass wool to enhance sound protection performance, For gypsum boards on shaft side are filled in and attached inside of I studs and U tracks. Secured all boards on shaft side by retainers and fix by screws. For gypsum boards on room side, attached and secured gypsum boards each layer by 25mm. long screws for the inner layer and 50 mm. long screws for the outer layer. Fill the perimeter of ShaftWall system or gaps between the gypsum board and floor, beam, column with a soundproof and fire rated sealant with not less than 2 hours performance, plastering all joints of gypsum boards and screw heads with Elephant jointing compound EasyJoint 120, distributed by Siam Gypsum Industry (Saraburi) Co., Ltd.



ELEPHANT
Gypsum Board

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