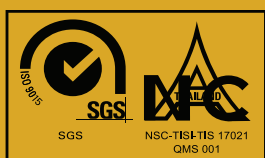
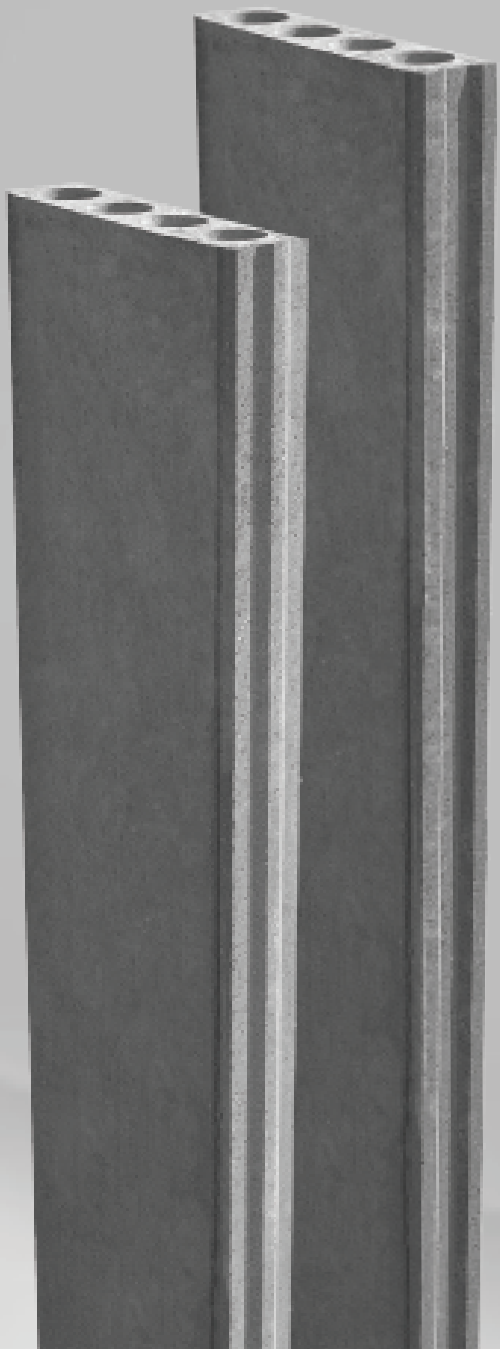


Lightweight Aggregate Concrete Wall Panel

CERA
WALL

- DIY by **TEXCA**

The right solution
for all buildings.
Fast..Cost-saving..Strong
..Beautifully finished
wall..Less plasterworks



Wall Innovation

CERA WALL

CERA WALL is a lightweight concrete wall panel reinforced with high quality ceramic aggregate instead of stone. It is developed from TEXCA WALL to be narrower and lighter for easy and convenient installation. CERA WALL is suitable for do-it-yourself (DIY) installation.

Composition of CERA WALL



Coarse and fine TEXCA ceramic aggregate



Additives

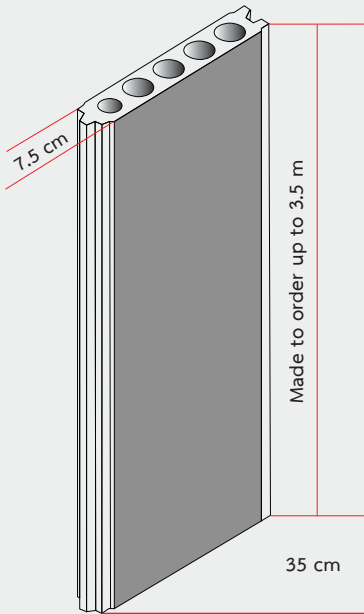


Portland cement type 1

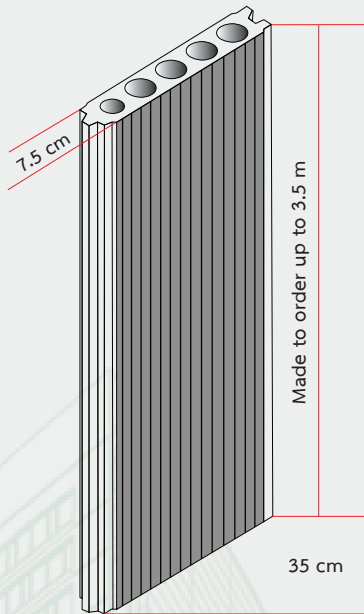
Lightweight aggregate concrete

CERA WALL Specification

ผนังภายใน

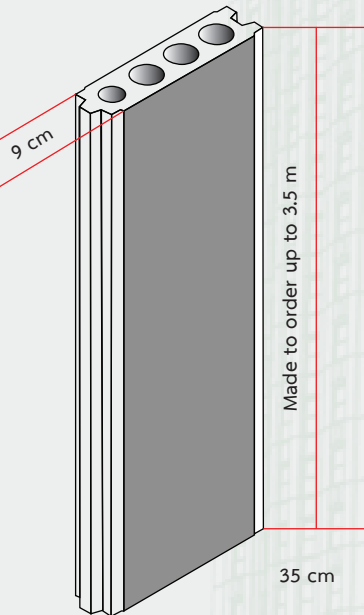


ผนังภายนอก

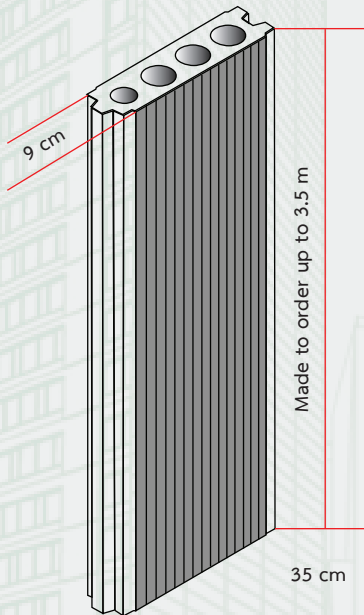


Dimensions and weight	
Height	2.55 , 2.75 , 3.00 m (customizable up to 3.50 m)
Width	35 cm
Thickness	7.5 , 9 cm
Weight (kg/m ²)	~ 98 kg/m ²
Weight (kg/2.75 m panel)	94 Kg/panel

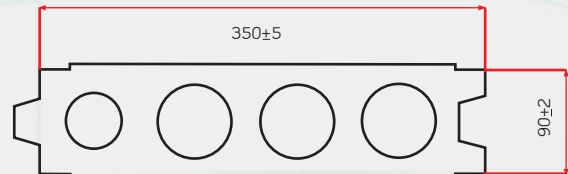
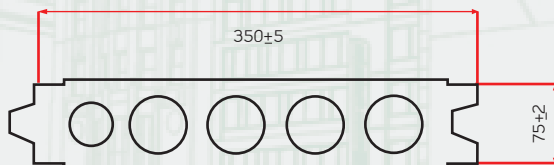
Internal wall



External wall



Properties	
Compressive strength	>120 kg/cm ²
Fire rating (9 cm panel + skim coating on both sides)	4 Hrs
Thermal conductivity	0.175 W/mK
Sound transmission class (STC) (9 cm panel + skim coating on both sides)	41 dB
Water absorption	<7%



CERA WALL installation tools and equipment



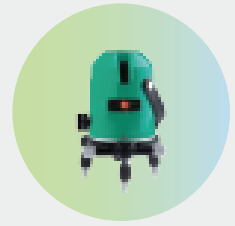
Circular saw



Angle Grinder and
Concrete-Cutting Blade



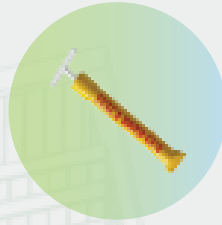
Hammer Drill



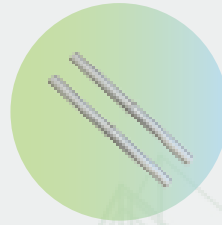
Line Laser



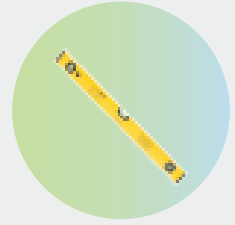
Wooden Wedge



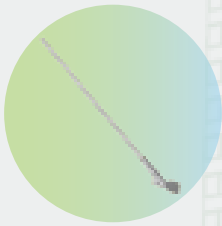
Cement Adhesive
Application Gun



Steel pipes
(for inserting into hollow cores)



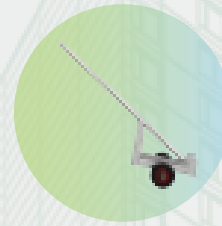
Bubble Level



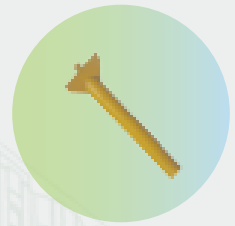
Crowbar



Web Sling and Panel Frame



Panel Cart



Grooving Tool

CERA WALL installation materials



ปูนกาว
TEXCA Bond Extra



Mortar Cement



TEXCA
Fiberglass Mesh



TEXCA PU foam



Foam Rod



Stopper



U Safety Plate



Dowel

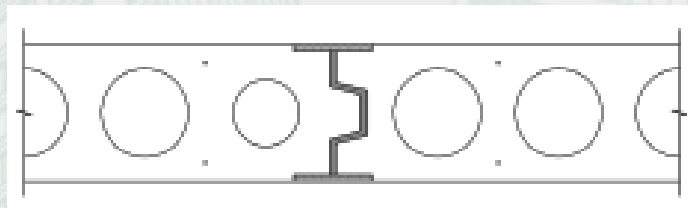


Epoxy TEXCA Shear

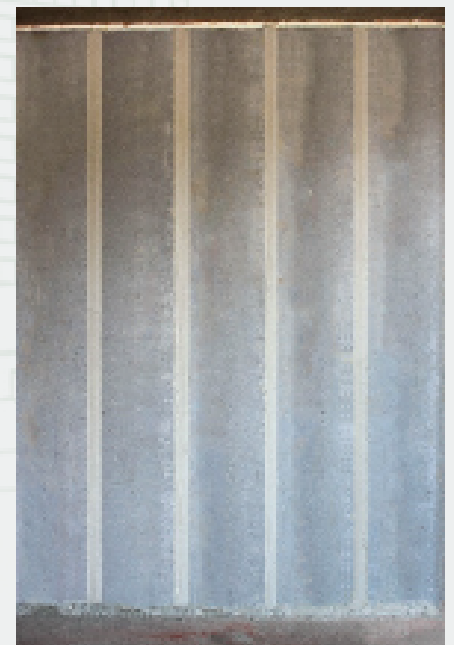
Material comparison

Material comparison	CERA WALL	ALC block	Red brick
Weight (including plastering on both sides) (kg/m ²)	100 – 110	90 – 100	180 – 200
Compressive strength (kg/cm ²)	>120	30 – 50	20 – 35
Water absorption (%)	< 7	30 – 40	15 – 25
Thermal conductivity (W/mK)	0.175	0.089 – 0.145	1.2 – 1.4
Fire rating (Hr)	4	3 – 4	1 – 2
Sound transmission class (STC) (dB)	41-43	32-36	39-42
Work done (sqm)/worker/day	15	8	4
Installation	Easy and does not require skilled workers	Requires skilled workers	Requires skilled workers
Quality of finished wall	Vertically levelled wall	Vertically levelled wall is harder to achieve	Vertically levelled wall is harder to achieve
Lintel and post	Not required	Lintel and post are needed	Lintel and post are needed
Thickness of plasterworks	4-5 mm	5-10 mm	15-30 mm
Type of plasterworks	Skim coating for interior wall. Plastering mortar for exterior wall.	Lightweight plastering mortar	Plastering mortar
M&E works	Easy and convenient. Pipes and conduits can be inserted through hollow core.	Not as convenient. Chiseling is required.	Not as convenient. Chiseling is required.
Anchorage	Compatible with typical anchors such as lead anchor, steel anchor, or plastic anchor.	Special anchor	Nail-in anchor
Cleanliness	Semi-wet process allows cleaner site.	Wet process leads to messier site.	Wet process leads to messier site.

CERA WALL installation



Specially designed deep groove and tongue to strengthen the panel joint, preventing hair cracks and water leakage.



CERA WALL application



CERA WALL application



CERA WALL application



CERA WALL application



CERA WALL application



CERA WALL application



Benefits of CERA WALL

- ✓ **Cost-saving** CERA WALL helps speed up construction process, saving time and labor. Less plasterworks also save material costs.
- ✓ **Strong** CERA WALL is manufactured with high quality lightweight ceramic aggregate, making it 2 – 3 times higher in strength than ALC block.
- ✓ **Lightweight** CERA WALL only weighs half of red-brick wall, saving structural cost and possessing better insulating properties.
- ✓ **Fast installation** CERA WALL is 10 times bigger in size when compared to ALC block, allowing for faster wall construction. It also has hollow cores ready for M&E works which also helps speed up construction time.
- ✓ **Fire - resistant** CERA WALL is manufactured with high quality ceramic aggregate that has been processed at temperature higher than 1250°C and does not contain easily degradable organic materials, making it durable and fire-resistant.
- ✓ **Long - lasting** CERA WALL is manufactured with strong and dense materials and does not contain air bubble or easily degradable organic materials, making it durable and long-lasting.

Buildings suitable for application of CERA WALL

- High-rise buildings such as condominium, apartment, etc. (replacing red brick or ALC block)
- Detached house (replacing red brick or ALC block)
- Town house (replacing red brick or ALC block)
- Public buildings such as school, hospital, department store, etc. (replacing red brick or ALC block)
- Factory or warehouse (replacing red brick, ALC block, or concrete block)

CERA WALL

The Right Solution for all Buildings



335/13 – 14 Srinakarin Road, Nongbon, Prawet Bangkok 10250 THAILAND

Tel. +6623660961 Ext. 215, 218 Fax. +6623660970

Email: sales@ecolite.co.th Website: <http://www.ecolite.co.th/cera-wall/>