

**Manufacturer overview**

<b>Name</b>	Composite stone panels
<b>Description</b>	Stone veneer backed by an aluminium honeycomb panel. (Stone veneer + ali plate + ali honeycomb + ali plate)
<b>Version</b>	4

<b>Classification</b>	
<b>Uniclass2015</b>	Pr_25_71_14_19 Composite stone panels
<b>NBS Code</b>	45-25-45/365 Composite stone panels
<b>NRM1</b>	-

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Category	Stone Panels	Aluminium Panels	Porcelain Panels
<b>Reference</b>	Stone Honeycomb Panels	Aluminium Honeycomb Panels	Porcelain Honeycomb Panels
<b>Description</b>	Stone Veneer backed by an aluminium honeycomb panel. (stone veneer + ali plate + ali honeycomb + ali plate)	Aluminium finish honeycomb panel. (ali plate + ali honeycomb + ali plate)	Porcelain veneer backed by an aluminium honeycomb panel. (porcelain veneer + ali plate + ali honeycomb + ali plate)
<b>Manufacturer</b>	Changzhou Evergreen Group (CEG)	Changzhou Evergreen Group (CEG)	Changzhou Evergreen Group (CEG)
<b>Panel facings</b>	Almost any stone is available as a surface finish. Contact LMC to discuss the required finish. Popular choices are limestone, granite, marble etc	Aluminium - mill finish or roller coated fluorocarbon paint from PPG	Porcelain finish - there is a wide range of porcelain finishes available. Discuss your requirements with LMC
<b>Finish as delivered - Surface</b>	NA	Mill or painted	NA
<b>Finish as delivered - Texture</b>	Honed/ Flamed/ Polished/ Antiqued/ Sandblasted/ Acid washed/ Bushhammered	NA	NA
<b>Finish as delivered - Colour</b>	Colour is dictated by stone choice, please discuss required colour with LMC.	Mill finish - silver/ painted finish - discuss required colour with LMC	Colour is dictated by porcelain finish choice
<b>Panel size - Length</b>	Standard 2700mm (bespoke length can be specified)	Standard 2700mm (bespoke length can be specified)	Standard 3600mm (bespoke length can be specified)
<b>Panel size - Width</b>	Standard 1200mm (bespoke width can be specified)	Standard 1200mm (bespoke width can be specified)	Standard 1200mm (bespoke width can be specified)
<b>Panel size - Panel thickness</b>	Standard 25mm. 6mm stone + 1mm ali plate + 17mm ali honeycomb + 1mm ali plate. (bespoke thickness can be specified)	Standard 20mm. 1mm ali plate + 18mm ali honeycomb + 1mm ali plate (bespoke thickness can be specified)	Standard 25mm. 5mm porcelain + 1mm ali plate + 18mm ali honeycomb + 1mm ali plate. (bespoke thickness can be specified)

<b>Backing material</b>	Aluminium honeycomb panel (ali plate + ali honeycomb + ali plate)	NA	Aluminium honeycomb panel (ali plate + ali honeycomb + ali plate)
<b>Edges</b>	Finished return/ finished retron w edge fill/ standard edge/ rounded edge/ bevelled edge/ mitered edge	Finished return/ standard edge/ rounded edge/ bevelled edge/ mitered edge	Finished return/ finished retron w edge fill/ standard edge/ rounded edge/ bevelled edge/ mitered edge
<b>Specials</b>	Finished returns/ angles/ details/ L sections/ U sections/ fins/ V sections etc all available. Speak to LMC about your design requirement	Finished returns/ angles/ details/ L sections/ U sections/ fins/ V sections etc all available. Speak to LMC about your design requirement	Finished returns/ angles/ details/ L sections/ U sections/ fins/ V sections etc all available. Speak to LMC about your design requirement
<b>Fire rating - Combustibility</b>	A2-s1, d0 in accordance with EN 13501-1:2007 (report available on request)	A2-s1, d0 in accordance with EN 13501-1:2007 (report available on request)	A2-s1, d0 in accordance with EN 13501-1:2007 (report available on request)
<b>Asset type</b>	Fixed object	Fixed object	Fixed Object
<b>Category</b>	Pr_25_71_14_19 Composite stone panels	Uniclass2015 - Pr_25_71_14_10 Aluminium-faced aluminium core panels	Pr_25_71_14_19 Composite stone panels
<b>Code performance</b>	45-25-45/365 Composite stone panels	45-25-45/318 Aluminium core composite panels	45-25-45/365 Composite stone panels
<b>Colour</b>	Stone - dependant on stone choice. Aluminium panel - silver.	Mill finish - silver. Painted - as per requested colour, discuss required finish with LMC	Porcelain - dependant on porcelain choice. Aluminium panel - silver.
<b>Constituents</b>	6mm stone + 1mm aluminium plate + 17mm aluminium honeycomb + 1mm aluminium plate. (bonded by a two-component polyurethane glue)	1mm aluminium plate + 18mm aluminium honeycomb + 1mm aluminium plate. (bonded by a two-component polyurethane glue)	5mm stone + 1mm aluminium plate + 18mm aluminium honeycomb + 1mm aluminium plate. (bonded by a two-component polyurethane glue)
<b>Grade</b>	Aluminium honeycomb panel - 3003, H24	Aluminium honeycomb panel - 3003, H24	Aluminium honeycomb panel - 3003, H24

<b>Material</b>	Stone + aluminium	Aluminium	Porcelain + aluminium
<b>Shape</b>	Rectangular (bespoke shapes available on request)	Rectangular (bespoke shapes available on request)	Rectangular (bespoke shapes available on request)
<b>Size</b>	Standard 2.7m high x 1.2m wide x 25mm thick	Standard 2.7m high x 1.2m wide x 25mm thick	Standard 3.6m high x 1.2m wide x 25mm thick
<b>Warranty description</b>	20 Years	20 Years	20 Years
<b>Warranty start date</b>	The day the client receives delivery of the goods.	The day the client receives delivery of the goods.	The day the client receives delivery of the goods.

## Stone panels

Technical Parameter	LMC 25mm Stone Panel
Weight	21kg/m <sup>2</sup>
Bending Strength	>17.9Mpa
Compressive Strength	0.8Mpa
Embedded Bolt Pull Out Force	3200N
Bond Strength	1.3N
Sound Insulation	32dB
Thermal Conductivity	0.328λ (w/m <sup>2</sup> .k)
Tolerance of Thickness	+,- 0.5mm
Tolerance of Flatness	+,- 1.0mm
Shear Strength	0.67Mpa
Impact resistance	No change after mass of 1kg dropped from height of 1m (~10J hard body impact)
Freeze-Thaw Test	No change after 120 cycles (-35°C ~ +80°C)
Fire Proof	A2-s1, d0 (EN 13501-1)

## Aluminium Panels

Technical Parameter	LMC 25mm Aluminium Panel
Weight	7.5kg/m <sup>2</sup>
Max Dimension	2000mm x 6000mm
Tolerance of Thickness	+,- 0.25mm
Tolerance of Flatness	+,- 0.5mm
Tolerance of Dimension	+,- 2.0mm
Bending Strength	>21.7Mpa
Shear Strength	>0.52Mpa
Salt Spray	No effect after 48 hours soaking
Surface Flouorocarbon Paint Coating	Roller coating or spraying