

Introducing Thermomass

Sandwich panel façades are a highly economical 2-in-1 solution. They combine the supporting structure and the façade in a single building element. The benefits include quick installation.

The Thermomass composite connector systems were added to the Leviat product range in autumn 2022. The systems are subject to the strictest quality controls and satisfy the high demands on sandwich panels and thermal wall construction.

Our comprehensive product range has the perfect Thermomass composite connector for every application. All anchors are made of GFRP glass fibre-reinforced polymer.

What is System NC?

Thermomass System NC is a patented connector and insulation system for construction non-composite insulated concrete sandwich walls. High strength, low thermal conductivity.

Why use System NC?

System NC places high-quality, rigid insulation between two layers of concrete and structurally connects the three layers in a single construction.

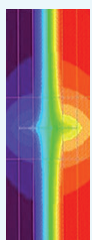
Why use fibre composite instead of steel?

Thermomass connectors are better suited for sandwich wall construction because steel conducts heat energy at a rate over 50 times greater than that of fibre composite ties.

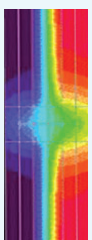
What materials are the connectors made from?

Thermomass connectors are made from a fibre composite material consisting of continuous glass fibres and Epoxy resin. The materials have been thoroughly tested and proven to be extremely durable and strong.

Thermal visualisation showing conductivity of a Thermomass connection



Steel



Concrete



Thermomass

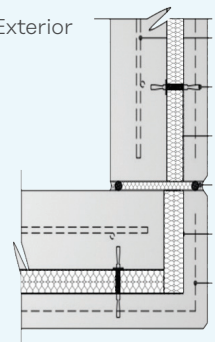







Benefits using Thermomass

- Certainty of cost
- Rapid installation
- Fire safe
- Thermally efficient



Typical 90° Exterior Butt Joint



Connector		System				Load Transfer ¹		Recommended Geometry ²		
		NC	SC	CIP	DW	Main	Secondary	Max Insulation	Min Fascia	Spacing
MC/MS Series		x			x ³	x		100mm (4")	50mm (2")	400mm (16")
MS-T Series		x				x		100mm (4")	63mm (2 1/2")	400mm (16")
MCMT/ MMC Series		x				x		180mm (7")	15mm (0.6")	600mm (24")
Star Series		x			x	x	x	400mm (16")	50mm (2")	600mm (24")
MC45D Series		x			x		x	250mm (4") (NC)	50mm (2")	Same as main connector
CC Series		x	x			x	x	150mm (6") (NC)	50mm (2")	500mm (20")
X Series		x	x				x	250mm (10") (NC)	60mm (2 3/8")	Same as main connector
SL Series				x		x		No limit	75mm (3")	300mm (12")

Core thickness up to 450mm thick can be accommodated

How do the connectors and panels perform in fire?

- BS EN ISO - 11925-2:2010 Ignitability of Building Products
- 4 hour fire test
BS 476-22:1987 Fire tests on building materials and structures
- 2 hour structural fire test
BS 476-20:1987 Fire tests on building materials and structures
BS EN 1363-1:2020 Fire resistance
BS EN 1363-2:1999
BS EN 1364-1: 2015

warringtonfire

Project: Motel One, Manchester



Leviat

To discuss the use of these systems, please contact Leviat on:

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