

WALL + CONTINUOUS THERMAL ENVELOPE

System build-up and continuous external wrap strategy

Purpose. This brief explains the EBOS wall build-up: an SF195 aluminium frame injected with PUR, enclosed with CalSil+ boards and wrapped externally with Thermo-Pan before the ventilated facade is installed.

SF195 FRAME	INJECTED PUR	CALSIL+ SHELL	THERMO-PAN WRAP
195 mm	35 kg/m3	A1	0.039
6063-T5 aluminium 3.5 mm profile wall	lambda 0.023 W/mK design input	reaction to fire Intertek tested sample	W/mK SGS tested sample

ONE STRUCTURE. ONE CONTINUOUS WRAP.

The external Thermo-Pan layer is intended to continue over profiles, joints and junctions before the ventilated facade, helping reduce thermal bridging across the building envelope.

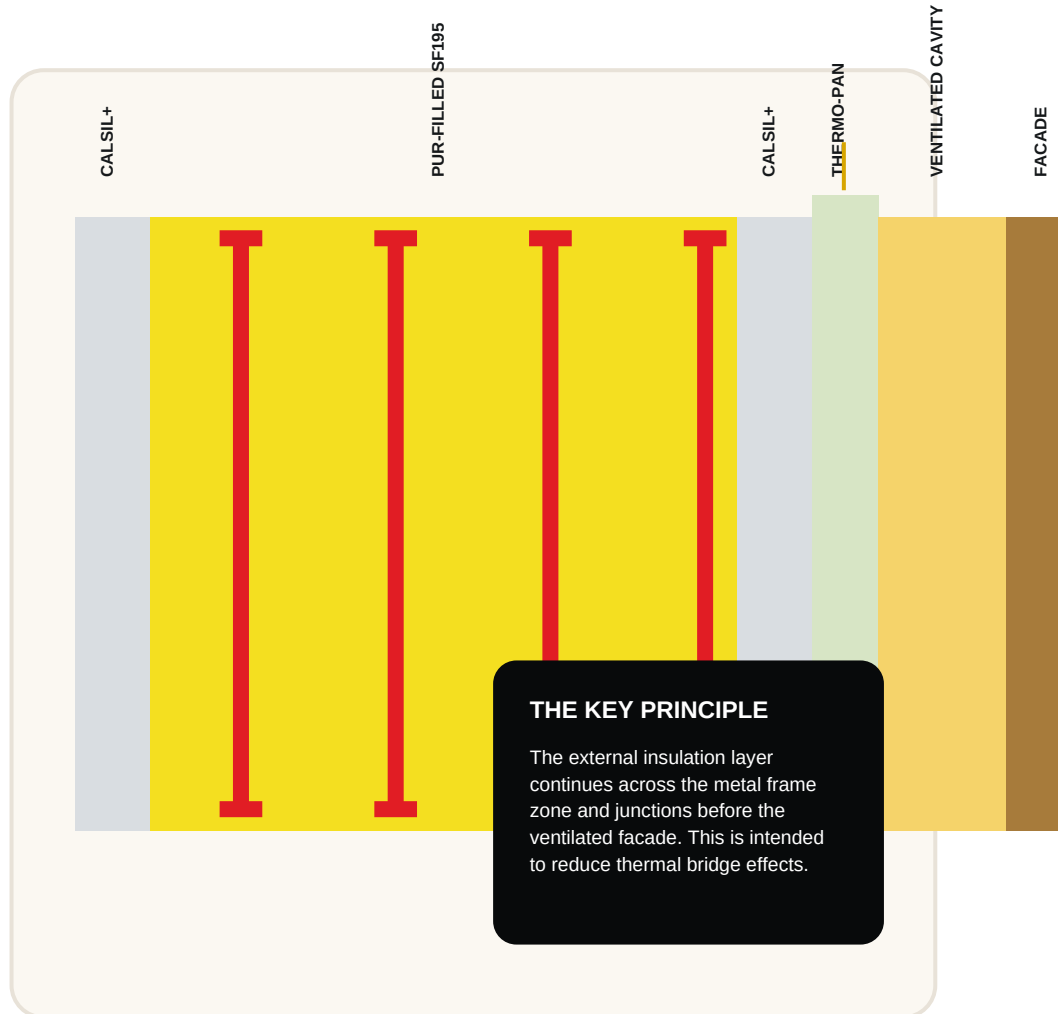
INDICATIVE WALL LAYER SEQUENCE



Design intent. Not a whole-wall U-value or certified junction calculation.

CONTINUOUS THERMAL WRAP

Cover the wall zone, profiles and junctions before the facade



WHAT THIS DOES - AND DOES NOT CLAIM

DOES

Creates a continuous external insulation strategy over the structural wall zone.

DOES

Protects junctions from being directly exposed at the outer facade line.

DOES NOT

Replace a validated whole-wall U-value or psi-value calculation.

DESIGN BASIS + EVIDENCE

Separate tested component data from EBOS system design inputs

TESTED

THERMO-PAN

SGS test SUIN1912009775PS
EN 12664:2001

Thermal conductivity 0.039 W/(m.K)

TESTED

CALSIL+

Intertek 200825008SHF-001
EN 12667:2001

Average thermal conductivity 0.168 W/(m.K)

TESTED

CALSIL+

Intertek 200825008SHF-001
EN 13501-1:2018

Reaction to fire classification A1

INPUT

PUR CORE

EnWalls design input
System design basis

35 kg/m³; lambda 0.023 W/mK

INDICATIVE PUR CORE RESISTANCE

$$R = 8.48 \text{ m}^2\text{K/W}$$

Calculated from 0.195 m / 0.023 W/mK for the PUR layer only. This is not the certified whole-wall thermal resistance or U-value; aluminium paths, boards, cavities and junctions must be modelled separately.