

KALWALL® PERFORMANCE TABLES

FACE SHEET COMBINATIONS		PANEL 'U' VALUE – WALLS – W/M²K PANEL THICKNESS 70MM										PANEL 'U' VALUE – WALLS – W/M²K PANEL THICKNESS 100MM						INTERNAL REACTION TO FIRE
THERMALLY BROKEN		2.57		1.25		0.78		0.56		0.28*		2.85		0.83		0.45		
STANDARD		2.74		1.56		1.20		0.99		0.72*		N/A		N/A		N/A		
EXTERIOR	INTERIOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	
White SW-E	White B-3C	20	0.31	14	0.16	8	0.10	5	0.07	12	0.13	20	0.31	12	0.13	5	0.06	B-s2,d0
Crystal SW-E	White B-3C	30	0.38	20	0.19	9	0.12	6	0.07	15	0.18	30	0.38	13	0.15	5	0.07	B-s2,d0

FACE SHEET COMBINATIONS		PANEL 'U' VALUE – ROOFS – W/M²K PANEL THICKNESS 70MM										PANEL 'U' VALUE – ROOFS – W/M²K PANEL THICKNESS 100MM						INTERNAL REACTION TO FIRE
THERMALLY BROKEN		2.86		1.31		0.80		0.57		0.28*		3.22		0.86		0.46		
STANDARD		3.08		1.67		1.26		1.03		0.74*		N/A		N/A		N/A		
EXTERIOR	INTERIOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	LIGHT TRANS	SOLAR FACTOR	
White SW-E	White B-3C	20	0.28	14	0.15	8	0.09	5	0.06	12	0.13	20	0.28	12	0.12	5	0.05	B-s2,d0
Crystal SW-E	White B-3C	30	0.35	20	0.18	9	0.11	6	0.07	15	0.18	30	0.35	13	0.14	5	0.06	B-s2,d0

*Kalwall +Lumira™

NOTES:-

1. Solar Factor is total Solar Heat Transmittance.
2. 'U' Values are calculated according to CIBSE Guide Volume A Chapter 3. (The difference between wall and roof values is because surface heat transfer is different for horizontal and the more severe vertical upward heat transfer. This is fully explained in the reference.)
3. Light transmissions are expressed in percentage terms.
4. Light transmissions over 30% are not recommended for normal use.
5. All performance figures based on 600mm by 300mm internal panel grid.
6. Fire performance in accordance with BS EN 13501-1.
7. Other face sheet combinations available on request.

Please consult Structura UK Limited on 01233 501504 for further clarification and guidance.

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