

## Data Sheet LiteCore marine panels

Type/classification:		B0-Omega	B15-Omega	A0-Omega	A15-T&G	A60-T&G	H120
Classification according to IMO Annex A.1, item No A.1/3.11a and Annex B, module B		B0	B15	A0	A15	A60	H120
Joint connection		Omega	Omega	Omega	T&G	T&G	T&G
Dimensions:	Unit						
Standard height	mm	2400	2400	2400	2400	2400	2400
Standard width, small element	mm	600	600	600	600	580	580
Standard width, large element	mm	1200	1200	1200	1200	NA	NA
Thickness without surface	mm	21	25	25	25	52	92

### Weight:

Core material density	Kg/m <sup>3</sup>	250	300	300	250	300	300
Weight per m <sup>2</sup> without surface	Kg/m <sup>2</sup>	5,25	7,50	7,50	6,25	15,60	27,60
Weight per m <sup>2</sup> with Laminate 0,7mm (laminate density = 1450kg/m <sup>3</sup> )	Kg/m <sup>2</sup>	7,60	9,85	9,85	8,60	17,95	29,95
Weight per m <sup>2</sup> with steel 0,7mm (steel density = 7800kg/m <sup>3</sup> )	Kg/m <sup>2</sup>	16,49	18,74	18,74	17,49	26,84	38,84
Weight per m <sup>2</sup> with glass tissue 0,25mm	Kg/m <sup>2</sup>	5,89	8,14	8,14	6,89	16,24	28,24

### Thermal insulation:

Thermal conductivity (EN 12667), λ10(average) with out surface	W/(mxK)	0,066	0,072	0,072	0,066	0,072	0,072
U-value, calculated with out surface	W/(m <sup>2</sup> xK)	3,143	2,880	2,880	2,640	1,385	0,783

### Sound reduction:

Without surface	dB	26	26	26	26	29	31
With laminate surface	dB	26	26	26	26	29	31
With steel surface	dB	31	31	31	31	33	35

### Mechanical strength

Screw holding capacity (5x60mm swirew hole 2,8mm), without surface	N	337	345	345	337	345	345
Screw holding capacity (5x60mm swirew hole 2,8mm), with laminate surface	N	550	597	597	550	597	597

### Value for calsiom silikate, core material

Density:	kg/m <sup>3</sup>	250	300	300	250	300	300
Cold crushing strenght (DS/EN/ISO 8895_2006)	Mpa	2,8	2,8	2,8	2,8	2,8	2,8
Moduls of rupture (EN 993-6:1995)	MPa	1,3	1,7	1,7	1,3	1,7	1,7
Total porosity (EN 1094-4:1995)	%	90	89	89	90	89	89
Water content	%	2,5	2,5	2,5	2,5	2,5	2,5
Dimension stability under specified temp. And humidity conditions (EN 1604) at 23°C, 90%RH, 48 hours	%	0	0	0	0	0	0

### Chemical analysis:

Silica	%	47	46	46	47	46	46
Alumina	%	0,3	0,3	0,3	0,3	0,3	0,3
Ferric oxide	%	0,3	0,3	0,3	0,3	0,3	0,3
Magnesium oxide	%	0,6	0,6	0,6	0,6	0,6	0,6
Calsium oxide	%	43	45	45	43	45	45
Sodium oxide	%	0,1	0,1	0,1	0,1	0,1	0,1
Potassium oxide	%	0,1	0,1	0,1	0,1	0,1	0,1
Loss on ignition at 1025°C	%	8	6	6	8	6	6
Non-combustibility tests (EN 13501-1:2007 + A1:2009)	Class	A1	A1	A1	A1	A1	A1
Colour		Grey	Grey	Grey	Grey	Grey	Grey