









## DATA OF STENCA LIGHT WEIGHT PANELS

### Surfaces

B15 Panel is a very light fire protection panel for bulkhead. On each side there can be applied high pressure laminate (HPL) with thickness from 0,7 mm to 1,2 mm, which comply fully with the requirements of Marine Equipment Directive (MED).

A60 Panel is a very thin and light fire protection panel for bulkhead and deck. It is pre-bonded with steel on two sides with thickness from 0,7 mm to 0,8 mm.

On request the panels can also be processed to customer requirements, e.g. decorative HPL laminates, paper, glass tissue, veneers, plywood, steel sheets or aluminium sheets.

### Dimension

Other panel sizes can be made on customer request.

### Handling and storage

Stored dry, shielded from sun, chill and water. During the handling and working process of the panels, particular at-

tention is required to the edges and to the corners of the single panel. The panel has to maintain in plain position, horizontal and well supported, to avoid flexion. Single panel must stand in straight position for avoiding structural damages - also in the installation phase.

### Production of panels

The core consists of calcium silicate. The material is produced of plates in different thicknesses at one production plant, and is afterwards send to the panel production plant. Here the panels are being prepared for the gluing process. The surfaces are glued on the panels on a specially gluing process system, which insures the surfaces and panel are fitted perfectly together, which makes the panels very strong.

### Panel fixing and connection

Installation of the panels has to be done on site. The panels have to be mounted in top and bottom profiles. Panels with tong and groove (T&G) shall be glued together along the sides with an adhesive, to ensure a closely and fire safe jointing.



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## TECHNICAL DATA · LIGHT WEIGHT PANELS

### SPECIFICATION

Thickness of core material	mm mm	B15: 28,0 A60: 52
Composition	mm	0,6-1,2 + core + 0,6-1,2
Standard Dimension	mm mm	B15: 2400 x 580 A60: 2400 x 580
Weight core material	kg/m <sup>3</sup>	280 ± 10 %

### BENDING RESISTANCE UNI EN 310:1994

Bending Resistance	$f_m(N/mm^2)$	17,5	(HPL 0,7 mm)
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### ELASTIC MODULUS UNI EN 310:1994

Elastic Modulus	$E_m(N/mm^2)$	3780	(HPL 0,7 mm)
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### THERMAL PROPERTIES EN 12667

Thermal Conductivity	$W/(m^*K)$	0,0791	(HPL 0,7 mm)
Thermal Resistance	$(m^2K)/W$	0,292	(HPL 0,7 mm)

### SOUND INSULATION UNI EN ISO 717-1

Airborne sound level $R_w$	dB	24	(HPL 0,7 mm)
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### DIMENSIONAL TOLERANCES

Thickness	mm	± 3 %
Width	mm	:1000=±1 ; 1000+2000=±1,5 ; >2000=±2



## TECHNICAL DATA · LIGHT WEIGHT PANELS

### COMPRESSIVE RESISTANCE ASTM 2559 D 905-98

Compression Rm (daN/cm<sup>2</sup>) 19,5 ± 10 %

### SURFACE TRACTION EN 1607 / EN 28510

Traction Rm (daN/cm<sup>2</sup>) 2,2 – 3,90 (HPL 0,7 mm) F.Adh

Peeling (N/mm) 0.020 – 0,030 (HPL 0,7 mm)

### WATER ABSORPTION UNI EN 317:1994

Swelling 0,1 % ( HPL 0,7 mm)

### CORE HUMIDITY CONTENT

Inside factory 1,5 ± 10 % (Thickness core 28,0 mm)

### FIRE RESISTANCE CLASS

SOLAS 74 as Amended : Regulation II-2/3.4

IMO RES. 61 (67) (FTP Code) IMO MSC/Cirs 1120 B15 & A60

All products are certified in accordance with international regulations and ISO standards, like they are marked with wheel mark after IMO standards. The panels are likewise PH neutral and comply with all environmental requirements.



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WE ARE FULL OF ENERGY  
*optimal solutions*

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