

# BUILD A BETTER BOAT WITH BELLCOMB

LIGHT. TOUGH. VALUE ENGINEERED. COSTS LESS.

Bellcomb's commitment to the marine industry is driven by technology—to meet the unique demands of naval architects and design manufacturing engineers. With superior strength-to-weight ratios, durability and corrosion resistance, Bellcomb Marine Panels are designed for even the most demanding applications.

Hit your cost and weight targets with our entire line of Nautical Lite™ panels: base panels, Design-Lam, Dura-Lam, and Dura-Hue—all USCG and ABS certified.

For the ultimate in design and function, welcome Bellcomb on board for your unique application demands or upcoming design challenge.



## **Nautical Lite™ is a 5000 series aluminum skin panel with aluminum honeycomb core (0.250" cell).**

- Multiple skin thicknesses from 0.012 – 0.040.
- Panel thicknesses available in 10mm, 20mm and 30mm.
- Custom thickness and material available.

## **Nautical Lite Design-Lam is a 5000 series aluminum skin panel with aluminum honeycomb core (0.250" cell) with either lightweight vinyl decorative film or Dura-Lam high pressure melamine face laminate.**

- High pressure decorative laminate.
- Wide range of decorative options.
- Panels are available with decorative laminate on two sides or single sided decorative panels available with choice of back skin thickness.
- Available on all Nautical Lite base panels.
- Standard colors and wood grains.
- Lightest weight decorative option available.

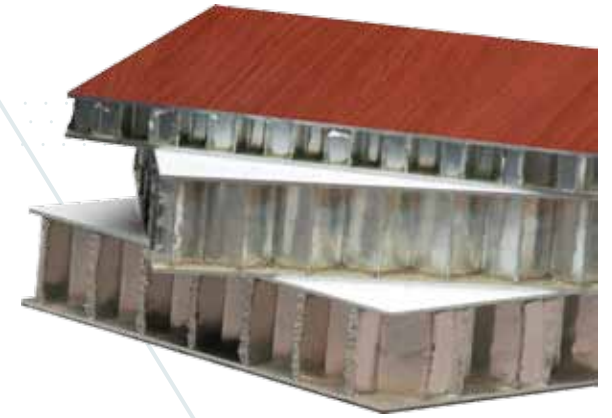


## **Nautical Lite Strata is natural stone bonded to 5000 series aluminum skin panel with aluminum honeycomb core (0.250" cell).**

- Up to 80% weight reduction in countertops and 50% weight reduction in tile (compared to stone slabs).
- Horizontal and vertical surface applications.
- Stronger and more impact resistant than traditional stone slabs.



# BELLCOMB STRUCTURAL MARINE PANELS



**Certified Or Non-Certified Bellcomb Structural Marine Panels are available in multiple core, skin & decorative finishes to match any installation - from cruise ships and luxury yachts to ferries and workboats.**

## **USE BELLCOMB MARINE PANELS FOR:**

Wall Linings, Partitions, Ceilings, Elevators, C-class Bulkheads, Cabinetry, Furnishings, Tables, Doors and Room Modules: Galleys, Rest Rooms And Kiosks.

- Low Weight
- ISO9001/2008 Certified
- Variety of Decorative Options: Colors, Wood Grain, Patterns & Stone
- High Stiffness
- **Made in USA**

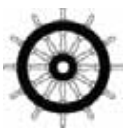


For More Information:

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# WE OFFER BOTH CERTIFIED AND NON-CERTIFIED PANELS

CERTIFIED PANELS HAVE USCG, ABS AND IMO APPROVALS.

Panels can be easily cut drilled with standard tools such as circular saws and routers. Components or complete interiors can be fabricated using Bellcomb full line of extrusions. Bellcomb also offers custom solutions of panel configurations and extrusions to fit your needs.

## NAUTICAL LITE

- Aluminum honeycomb panel faced with aluminum sheets.
- The minimum custom panel thickness allowed by our certification is 0.125" (3.175mm) with a maximum thickness up to 2.0" (50.8mm).
- Panels can be produced with different aluminum sheet thicknesses on front and back surfaces. Aluminum sheets are of 5000 series alloy.
- Aluminum sheets are available in a range of thicknesses from 0.012" (0.3048mm) minimum and upward 0.020" (0.508mm).
- Aluminum sheets are either Mil finish or anodized.
- Standard honeycomb cell size is .025" (.635mm) other cell sizes available.
- The minimum panel thickness will be 0.125"(3.175mm) with a maximum thickness up to 2.0" (50.8mm).
- Standard panel thickness of .3937" (10mm), .7874" (20mm), 1.181" (30mm).
- Standard panel sizes of 48" x 96" (1219mmX2438mm), custom sizes available.

## TYPICAL PROPERTIES FOR .020" (.5MM) ALUMINUM FACED PANEL

THICKNESS	WEIGHT AT MAX LOAD	MAX LOAD	DEFLECTION	CLIMBING DRUM PEEL	FLAT WISE COMPRESSION
mm / inches	Kg/M2 / lb/ft <sup>2</sup>	Newtons	mm / inches	N/76mm	MPa
10 / 0.3937	3.4 / 0.70	1054	25 / 0.98	375	2.6
20 / 0.7874	3.9 / 0.80	2005	12 / 0.47	375	2.6
30 / 1.181	4.4 / 0.90	2776	9 / 0.35	375	2.6

## NAUTICAL LITE DESIGN-LAM ALUMINUM CORE, DECORATIVE LAMINATE

- Panel consists of decorative laminate applied to one or both sides of the non-combustible Nautical Lite panel.
- Approved with Belbien film laminated to the surface(s).
- Panels can be produced with different aluminum sheet thicknesses. Aluminum sheets are of 5000 series alloy.
- Standard honeycomb cell size is .025"(.635mm); other cell sizes available.
- Standard panel thickness of .3937" (10mm), .7874" (20mm), 1.181" (30mm).
- Standard panel sizes of 48" x 96" (1219mmX2438mm); custom sizes available.

## NAUTICAL LITE DURA-LAM – ALUMINUM CORE, ALUMINUM LAMINATE SURFACE

- Metal core high pressure laminate bonded to aluminum sheet for a total skin thickness of .038"(.9652mm).
- May be used on one or both sides of a Nautical Lite Dura-Lam panel.

## NAUTICAL LITE DURA-HUE – ALUMINUM CORE, ALUMINUM PAINTED SURFACE

- Kynar painted aluminum .016" (.4064mm) or thicker for application on one or both sides of a Nautical Lite panel.

## NAUTICAL LITE STRATA – ALUMINUM CORE, STONE SURFACE

- Natural stone bonded to 5000 series aluminum skin panel with aluminum honeycomb core with a .025" (.635mm) cell.

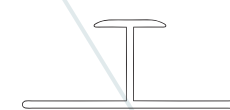
# MARINE PANELS INSTALL QUICKLY AND EASILY

## ALUMINUM JOINER EXTRUSIONS FOR PANEL APPLICATIONS

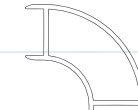
- 6063-T5 aluminum alloy extrusions.
- Clear anodized or matte black finish.
- 8', 10', 12' and 16' Lengths unless otherwise specified.



## FOR USE WITH 10MM (0.40") PANELS



**JOINER**  
PART NO. - BSE 1991



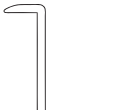
**CORNER POST**  
PART NO. - BSE 1992



**END CAP**  
PART NO. - BSE 1989

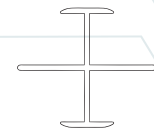


**END STOP**  
PART NO. - BSE 1990

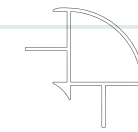


**CABINET DOOR JAM**  
PART NO. - BSE 1993

## FOR USE WITH 20MM (0.80") PANELS



**JOINER (W/TONGUE)**  
PART NO. - BSE 1998



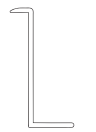
**CORNER POST**  
PART NO. - BSE 1997



**END CAP (W/TONGUE)**  
PART NO. - BSE 1995



**CHANNEL**  
PART NO. - BSE 1996



**CABINET DOOR JAMB**  
PART NO. - BSE 1999



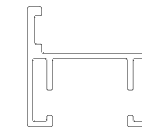
**SHELF/TABLE EDGE**  
PART NO. - BSE 2000



**INTERLOCKING END CAP**  
PART NO. - BSE 2001



**END CAP**  
PART NO. - BSE 1994



**DOOR JAM**  
PART NO. - BSE 2852



**L SECTION**  
PART NO. - BSE 2859

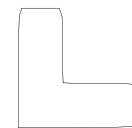


**DOOR STILE**  
PART NO. - BSE 2861

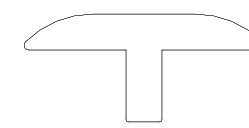


**TABLE EDGE**  
PART NO. - BSE 2851  
(FOR USE WITH 30MM)

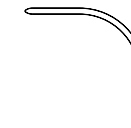
## FOR UNIVERSAL USE



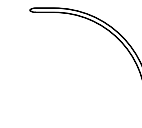
**DOOR JAMB JOINER**  
PART NO. - BSE 2860



**BEAD STRIP**  
PART NO. - BSE 2002



**SMALL CORNER TRIM**  
PART NO. - BSE 2004



**LARGE CORNER TRIM**  
PART NO. - BSE 2005

Contact Bellcomb for additional extrusion options.