

Custom Design and Fabrication

Need a lightweight composite sandwich panel?

Call a Plascore sales engineer today.

In addition to our line of Plascore Board, Plascore services include custom manufacturing. Plascore offers design, test and prototyping assistance to build you a composite sandwich structure.

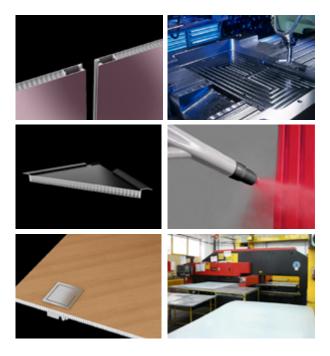
Plascore custom panel structures deliver:

- · High strength to weight benefits
- Built in and added fasteners, latches, connectors and more
- Custom surface finishes
- Exceptional quality

Plascore offers many manufacturing capabilities that can provide a unique sandwich panel solution for your application.

- CNC Machining
- Cold and Hot Laminating
- Welding
- Finished Edges
- Adhesive Bonding and Assembly
- Powder Coating
- Forming
- Destructive and Non-Destructive Testing

Please include your parameters on this Panel Design Questionnaire and contact us for a quotation.



I. Customer Information

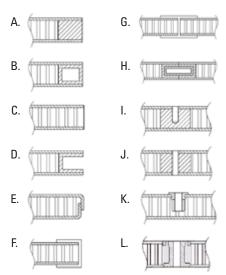
Company			
Name			
Address			
Phone Fax			
Email			
Website			
What is your project timing?			
II. Design Objectives			
1.) Please indicate the intended use for this panel			
☐ Decorative			
☐ Structural			
☐ Non-Structural			
Other (Specify)			
2.) What is your price objective? \$			
3.) How many panels do you need?			
4.) Explain application:			
5.) Is a part drawing available?			
6.) What is the current material being used?			

III. Physical Characteristics

I.) Please indica	ate panel dimensions:	
	Length	Thickness
Width		
2.) What is max	mum allowable pane	I thickness? in.
3.) What is mini	mum allowable panel	thickness? in.
4.) What is maxi	mum allowable total	panel weight? lbs.
5.) What is mini	mum allowable total բ	panel weight? lbs.
6.) Please indica	ate panel type	
☐ Plain, flat	panel, (no edging, no	frame)
\square Flat pane	l, decorative edging	
☐ Flat pane		
☐ Contoure	•	
7.) Are there any	y visual requirements	?
• • • • • • • • • • • • • • • • • • • •	surface finish is requ	 uired?
Plain mill	finish	
☐ Painted		
☐ Peel ply		
		_
	requirements for:	
	How many? ('enclose sketch)
	ow many?	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		What size?
	panel interior reinfor	cements
10.) Desired pane		and width io
	tolerance for length a	
	tolerance for panel fla	
	tolerance for thicknes	
THE RESIDENT	PPANTED INFORMATION	. 18



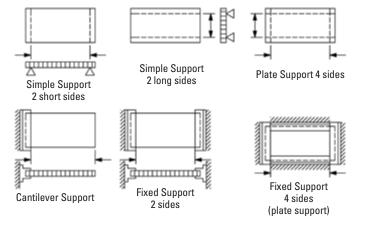
11.) Panel edge and insert design concepts, circle all that apply and indicate a material type (i.e. metal, wood, plastic):



IV. Support Configuration

- 1.) Please indicate how the panel will be supported by:
 - A. Selecting the most appropriate sketch from figure 2
 - B. Completing the dimensional information on that sketch
- If you have a different support configuration please provide sketch.

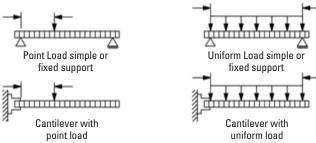
Figure 2



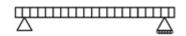
V. Loading Characteristics

- 1.) What is the total load on panel? _____ lbs.
- 2.) Please indicate type of load on the appropriate sketch in figure 3
- 3.) If point load condition, please indicate
 - A. Point load is distributed over local area of _____ sq. ft.

Figure 3



- B. Point load is located at (use x,y coordinates from figure 4)
- C. If more than one location, please list or indicate all locations Figure 4



4.) What is the maximum allowable panel deflection? _____ in.

VI. End Use Environment

- 1.) What is maximum temperature exposure?
- 2.) What is minimum temperature exposure? _____
- 3.) Is temperature constant? _____ How does it vary? ____
- 4.) Will the panel be exposed to moisture? _____
 - ☐ Continually?
- ☐ Intermittently?
- 5.) Will the panel be exposed to chemicals?
 - A. If yes, please list:

-

VII. Certification

- 1.) Any quality testing/certification required? Specification # _____
- 2.) Any prototypes required? _____

VIII. Panel Composite Options

Core Materials:		
☐ Plascore PC Honeycomb Core		
☐ Plascore Aluminum Honeycomb Core		
☐ Plascore Nomex Honeycomb Core		
☐ Plascore PP Honeycomb Core		
☐ Foam Core Type		
Facing Materials:		
☐ Aluminum Alloy. 3003 Mill finish	(Other aluminum alloys are available for	
☐ Aluminum Alloy, 3003, Painted	more demanding structural requirements)	
☐ Reinforced Epoxy		
☐ Reinforced Phenolic		
☐ Reinforced Polyester		
☐ Stainless Steel		
☐ Galvanized Steel		
☐ High Pressure Laminate		
☐ Decorative Thermoplastics		
☐ Plywood		
☐ Other		

Plascore, Inc., employs a quality management system that is AS/EN/JISQ 9100 and ISO 9001:2008 certified.

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