

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

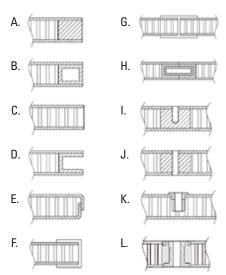
| Company | | | |
|---|--|--|--|
| Name | | | |
| Address | | | |
| Phone Fax | | | |
| Email | | | |
| Website | | | |
| What is your project timing? | | | |
| II. Design Objectives | | | |
| 1.) Please indicate the intended use for this panel | | | |
| ☐ Decorative | | | |
| ☐ Structural | | | |
| ☐ 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 |



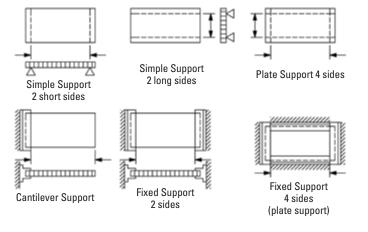
11.) Panel edge and insert design concepts, circle all that apply and indicate a material type (i.e. metal, wood, plastic):



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.

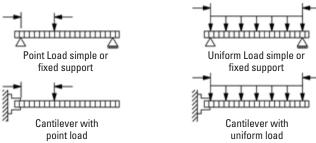
Figure 2



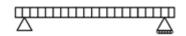
V. Loading Characteristics

- 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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