



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.

Please send completed questionnaire to panels@plascore.com





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: _____

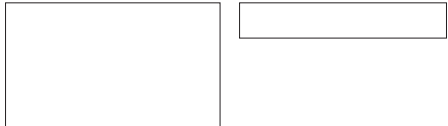
5.) Is a part drawing available? _____

6.) What is the current material being used? _____

III. Physical Characteristics

1.) Please indicate panel dimensions:

Length _____ Thickness _____
 Width _____



2.) What is maximum allowable panel thickness? _____ in.

3.) What is minimum allowable panel thickness? _____ in.

4.) What is maximum allowable total panel weight? _____ lbs.

5.) What is minimum allowable total panel weight? _____ lbs.

6.) Please indicate panel type

- ☐ Plain, flat panel, (no edging, no frame)
☐ Flat panel, decorative edging
☐ Flat panel, framed
☐ Contoured panel

7.) Are there any visual requirements? _____

8.) What type of surface finish is required?

- ☐ Plain mill finish
☐ Painted
☐ Peel ply
☐ Other _____

9.) Do you have requirements for:

- ☐ Cut-outs How many? _____ (enclose sketch)
☐ Holes How many? _____
☐ Treaded inserts How many? _____ What size? _____
☐ Localized panel interior reinforcements

10.) Desired panel dimensions:

The desired tolerance for length and width is: _____

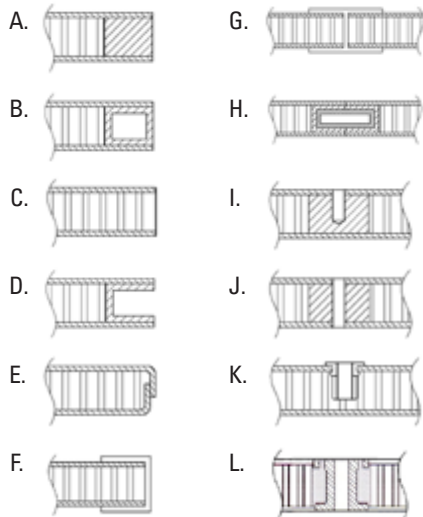
The desired tolerance for panel flatness is: _____

The desired tolerance for thickness is: _____

The desired tolerance for flatness is: _____



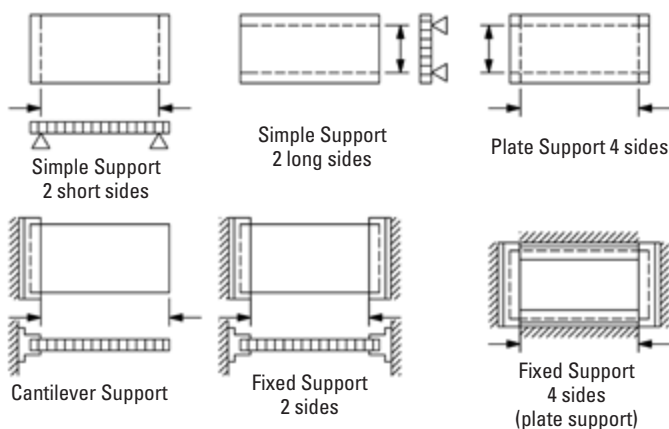
11.) Panel edge and insert design concepts, circle all that apply and indicate a material type (i.e. metal, wood, plastic):



IV. Support Configuration

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

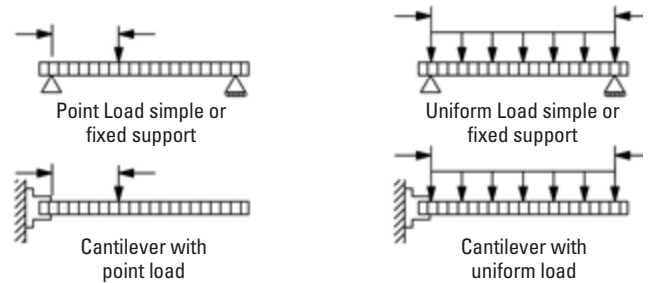
Figure 2



V. Loading Characteristics

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

Figure 3



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

Figure 4



- What is the maximum allowable panel deflection? ____ in.

VI. End Use Environment

- What is maximum temperature exposure? ____
- What is minimum temperature exposure? ____
- Is temperature constant? ____ How does it vary? ____
- Will the panel be exposed to moisture? ____

☐ Continually?
 ☐ Intermittently?
- Will the panel be exposed to chemicals?
 - If yes, please list:

VII. Certification

- Any quality testing/certification required? Specification # ____
- 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 more demanding structural requirements).
- ☐ Aluminum Alloy, 3003, Painted
- ☐ 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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