LOAD DESIGN CHARTS
LOAD DESIGN CHART NUMBER 1
PACEMAKER ENGINEERED STRUCTURAL INSULATED PANELS

<table>
<thead>
<tr>
<th>PANEL SPAN</th>
<th>7/16&quot; OSB THICKNESS</th>
<th>EPS CORE THICKNESS</th>
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<tbody>
<tr>
<td></td>
<td>3-5/8&quot;</td>
<td>5-5/8&quot;</td>
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<tr>
<td>DEFLECTION</td>
<td>L/360 L/240 L/180</td>
<td>L/360 L/240 L/180</td>
</tr>
<tr>
<td>TRANSVERSE LOAD PFS</td>
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<tr>
<td>4'-0&quot;</td>
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<tr>
<td>6'-0&quot;</td>
<td>50 79 97</td>
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<td>8'-0&quot;</td>
<td>29 44 57</td>
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<tr>
<td>10'-0&quot;</td>
<td>24 35 46</td>
<td>39 51 51</td>
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<tr>
<td>12'-0&quot;</td>
<td>18 26 34</td>
<td>32 41 41</td>
</tr>
<tr>
<td>14'-0&quot;</td>
<td></td>
<td>24 30 30</td>
</tr>
</tbody>
</table>

BASED ON SAFETY FACTOR OF 3

Note: Spline to be min thickness equal to the panel skins.

Factory electrical chase.

Fasten with #8 nails or 14 ga. 1/2" staples.

Fasten with #8 o.c. both sides of panel joint or equivalent. Typical each side of panel.

Note: Vapor retarder recommended on interior of panel when mandated by code or climatic conditions.

SECTION/PLAN
Scale: NTS
Updated 7/15/02

TITLE: Spline Connection
Surface Spline
NO: PS-102

Scale: NTS
Updated 7/15/02

TITLE: Block Spline
Connection
NO: PS-102x
NOTES:

* 2X Top Plate joints must be staggered a minimum of 1' from panel joints.
* Minimum edge bearing for roof, floor or ceiling panels is 1 1/2".
* For application of Sip panels as flooring, a minimum of 7/16" OSB or equivalent is required to provide additional impact and point loading resistance.
* For sloped panels, the loading conditions and panel capacities should be reviewed based upon the inclined panel length.
* Deflection criteria is L/240 (minimum) for roof loads at 3 in 12 pitch or greater.
* SIPs should be designed to comply with the deflection limits of the applicable building code.
* SIP Load Design Charts are for total load (dead load + live load). For long term deflection under sustained load (creep), additional deflection must be evaluated.
LOAD DESIGN CHART NUMBER 3 (DIMENSIONAL LUMBER SPLINE)

PACEMAKER ENGINEERED STRUCTURAL INSULATED PANELS

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<thead>
<tr>
<th>PANEL SPAN</th>
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<td>10'-0&quot;</td>
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<td>14'-0&quot;</td>
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BASED ON SAFETY FACTOR OF 3
## LOAD DESIGN CHART NUMBER 3a (WOOD I-BEAM SPLINE)

### PACEMAKER ENGINEERED STRUCTURAL INSULATED PANELS

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BASED ON SAFETY FACTOR OF 3
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Based on safety factor of 3

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**SECTION**

Title: Pacemaker® SIP

Header sections (Pacemaker Panel) NO. PS-110

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**PANEL WEIGHT (psf)**

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<th>EPS Core Thickness</th>
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Office and Production
125 New Pace Rd., PO Box 279
Newcomerstown, OH 43832
1-800-446-2188, Fax: 740-498-4184

E-mail: info@pacemakerplastics.com

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