HEAVY EMBOSSED FLAT PROFILE
INSULATED PANEL SPECIFICATIONS

1. PRODUCT NAME
   American’s Insulated Heavy Embossed Flat Profile (HE40) Wall Panels.

2. MANUFACTURER
   Insulated panels shall be supplied by:

   AMERICAN BUILDINGS COMPANY
   1150 State Docks Road
   Eufaula, Alabama 36027
   Phone: (334) 687-2032

3. PRODUCT DESCRIPTION
   These flat profile wall panels provide 40" of coverage in four
   foam core thickness options; 2", 2 1/2", 3" or 4".

   Basic Use: Insulated Heavy Embossed Flat Profile panels, a
   steel clad factory insulated wall covering system, installed
   with related accessories and trims, create an air and water
   tight wall system.

   Materials: The exterior metal substrate is a flat heavy
   emboss 26 gage, G90 zinc-coated (galvanized) steel. Pre-
   painted exterior panels have American Buildings Company's
   30 year SmartKote® (PVDF) finish with a total dry film
   thickness of 1.0 mil including primer. The plank profile interior
   liner is pre-painted Imperial White, 26 gage G60 Galvanized
   or AZ35 Galvalume, steel coated with a 20 year polyester
   finish and a dry film thickness of 1.0 mill including primer.
   The continuously foamed in place panel core is Class 1 rigid
   polyisocyanurate (polyurethane) foam meeting the physical
   properties listed under section 4 G.

   Sealants: Tape mastic shall be non-staining, non-corrosive,
   non-toxic and non-volatile, Sika Sika-TapeTC-95 or equal.
   Composition is 100% solid isobutylene tripolymer tape with a
   service temperature of -60°F to +212°F required as indicated
   on the erection drawings. Butyl caulk sealant shall be
   Schnee-Morehead 5430 or equivalent with a service
   temperature of -60°F to +200°F.

   Fasteners: All wall fasteners shall be per the following.

   A. Exposed standard wall fasteners for panel to trim attachment
      shall be carbon steel No. 14 hex head TEK fasteners with
      washers, required length will vary with panel thickness.
   B. Exposed standard wall fasteners for panel to trim attachment
      shall be No. 14 x 3/4" self-drilling carbon steel screws.
         Standard wall fasteners shall have a corrosive resistant coating
         over zinc plating.

4. TECHNICAL DATA
   A. The Insulated Heavy Embossed Flat Profile wall panel's
      ability to withstand positive and negative design loads verified
      by testing in accordance with the ASTM E 72 Vacuum Chamber
      Method the standard deflection criteria is L/180.
   B. Thermal properties have been verified by actual tested
      values in accordance with the ASTM C 518 steady state thermal
      transmission test method. Aged K Factor did not exceed .14 @
      75°F mean temperature or .13 @ 40°F mean temperature.
   C. Weather-tightness of the insulated panel system tested and
      verified by the ASTM E 283 air infiltration method and the ASTM
      E 331 water penetration method. Air leakage did not exceed
      0.01 CFM per square foot of wall area at a pressure differential
      of 12.0 psf. Water leakage was not observed at the panel joint
      at a pressure differential less than 6.27 psf.
   D. The panel has a Factory Mutual Class 1 Approval for wall
      and roof/ceiling construction in accordance with the full scale
      FM 4880 test program with no height restriction.
   E. The panel has a Factory Mutual Class 1 Exterior Wall
      System Approval for Windstorm in accordance with FM 4881.
   F. Panel core flame spread maximum of 25 and smoke
      developed maximum of 450 as tested in accordance with ASTM
      E 84 test method.
   G. The polyisocyanurate (polyurethane) foam core meets or
      exceeds the following physical properties:
      - Compressive strength: 25 psi
      - Density (in-place): 2.1-2.5 pcf
      - Shear Strength: 28-32 psi
      - Closed Cell Content: 95%
      - Dimensional Stability: 14 day aged (ASTM D 2126)
        -20°F < 1% chg, Dry Heat 158°F, < 1% chg, Humid Heat
        158°F

5. QUALITY PANEL INSTALLATION
   The contractor/installer shall examine the alignment of the
   framing before installing the insulated panels. The steel shall be
   aligned to the tolerances established in the AISC code of
   standard practices, section 7, and the supplemental modification
   control section 7.11.3, adjustable items. The maximum deviation
   of steel alignment shall be limited to -0 to 3/16" from the control
   with a 1/8” maximum change in deviation for any member of any
   ...continued
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10'-0' run of panel. The erector shall not proceed with installation if the steel framing is not within the specified tolerances. The face of all structural members to which the panels are attached must be in the same vertical plane, flat and free of obstructions such as weld marks or bolt heads.

The Insulated Heavy Embossed Flat Profile wall panels should be erected in accordance with American Buildings Company’s Insulated Panel Product Manual, approved details and building erection drawings, by an American Buildings Company Authorized Builder using proper tools and equipment.

6. AVAILABILITY
For availability, contact:

AMERICAN BUILDINGS COMPANY

7. WARRANTY
Material warranties are available.

8. MAINTENANCE
Only normal routine maintenance is required over the life of the panels.

9. TECHNICAL SERVICES
For information, contact:

AMERICAN BUILDINGS COMPANY

10. PRODUCT NOTES

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**HEAVY EMBOSSED FLAT PROFILE**

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**ALLOWABLE LOAD FOR ALL WALL PANELS (PSF) BASED ON L/180 DEFLECTION**

<table>
<thead>
<tr>
<th>PANEL THICKNESS</th>
<th>PANEL WEIGHT</th>
<th>SIMPLE SPAN (FT)</th>
<th>MULTIPLE SPAN (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(IN)</td>
<td>(PSF)</td>
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<td>6.0</td>
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<tr>
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<td>110</td>
</tr>
</tbody>
</table>

Notes:
1) Spans shown are based on transverse load testing of the panels per ASTM E-72. Thermal effect due to temperature differentials have not been considered.
2) Loads shown do not include a check of attachment to the supports. Attachment requirements will vary based on project wind load requirements.