GALVANIZED MULTI-PURPOSE HANGER SYSTEM
2 - HANGER INSERT PLATE PART # CFHIP
1 - STAMPED BEARING BRACKET PART # ICFSBB

EXTERIOR FINISH
AS PER CODE
INTERIOR FINISH
AS PER CODE
FLOOR FINISH
AS PER CODE
SUB FLOOR
JOISTS (CONVENTIONAL LUMBER) OR MANUFACTURED WOOD JOISTS OR WEB / HANGER
BLOCKING AS PER MANUFACTURER SPEC.
SOLID BLOCKING INSTALLED BETWEEN
JOISTS AGAINST INSIDE WALL FACE
GALVANIZED MULTI-PURPOSE
HANGER AND BEARING BRACKET
3 - # 12 - 14 x 1 1/2” (38 mm)
SCREWS EACH SIDE (TOTAL OF 6 PER HANGER ASSEMBLY)
REFER TO SCREW SPEC. NOTE
INTERIOR FINISH
AS PER CODE

TYPICAL INSULATED CONCRETE FORM
EXTERIOR LAYER OF 2 5/8” (67 mm) RIGID
EXPANDED POLYSTYRENE INSULATION.
MIN. 6” (150 mm) - 3,000 psi (20 MPa), CONCRETE
CORE (REINFORCED AS PER PROJECT ENGINEER /
MANUFACTURERS SPECIFICATIONS)
INTERIOR LAYER OF 2 5/8” (67 mm) RIGID
EXPANDED POLYSTYRENE INSULATION.

SCREW SPECIFICATIONS:
ALL SCREWS TO BE #12 - 14 x 1 1/2” (38 mm) HEX
HEAD SELF DRILLING SCREWS MANUFACTURED BY
UCAN FASTENING PRODUCTS (PART #: THW121125) OR EQUAL.

HANGER MATERIAL:
STEEL GRADE:
MINIMUM ASTM A446 STEEL, GRADE A
20 ga. (16 ga. FOR RETROFIT
OPTION) WITH MINIMUM YIELD
STRENGTH OF 33,400 psi (230 MPa)
MANUFACTURER TOLERANCES:
MUST CONFORM TO PARTS, ITEMS AND
INSTALLATION AS TESTED BY INTERTEK
TESTING SERVICES NA LTD. REPORT NO.
3983346 PREPARED FOR ICF CONNECT LTD.

INTERNATIONAL RESIDENTIAL CODE 2006 (USA)
2005 NATIONAL BUILDING CODE OF CANADA (CAN)

MAX. JOIST CLEAR SPAN

<table>
<thead>
<tr>
<th></th>
<th>12” O.C.</th>
<th>16” O.C.</th>
<th>19.2” O.C.</th>
<th>24” O.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 mm</td>
<td></td>
<td>(400 mm)</td>
<td>(485 mm)</td>
<td>(600 mm)</td>
</tr>
</tbody>
</table>

STANDARD FLOOR JOIST INSTALLATION

<table>
<thead>
<tr>
<th></th>
<th>57”-0”</th>
<th>42”-6”</th>
<th>35”-6”</th>
<th>28”-6”</th>
</tr>
</thead>
<tbody>
<tr>
<td>17,373 mm</td>
<td>(12,954 mm)</td>
<td>(10,820 mm)</td>
<td>(8,866 mm)</td>
<td></td>
</tr>
</tbody>
</table>

FLOOR JOIST SYSTEM WITH 1 1/2” (38 mm) CONCRETE TOPPING

<table>
<thead>
<tr>
<th></th>
<th>43”-6”</th>
<th>32”-6”</th>
<th>27”-0”</th>
<th>21”-6”</th>
</tr>
</thead>
<tbody>
<tr>
<td>13,258 mm</td>
<td>(9,906 mm)</td>
<td>(8,229 mm)</td>
<td>(6,553 mm)</td>
<td></td>
</tr>
</tbody>
</table>

DESIGN LOADS:

LIVE LOAD:
DEAD LOAD (STANDARD) : 40 psf (1.9 kPa)
DEAD LOAD WITH 1 1/2” (38 mm) CONCRETE TOPPING: 15 psf (0.72 kPa)
DEAD LOAD + 19 psf = 34.0 psf (1.63 kPa)

MAX. HANGER VERTICAL BEARING END REACTION:
USA MAX. SHEAR CAPACITY (A.S.D.) : 1,740 lb
CANADA MAX. SHEAR CAPACITY (L.S.D.) : 2,235 lb

PROJECT DESIGNER IS RESPONSIBLE FOR OVERALL STABILITY OF THE
SYSTEM AND ALL JOINING ELEMENTS INCLUDING RESOLVING ANY LOADS
ACTING WITHIN THE DIAPHRAGM OF THE FLOOR SYSTEM. CONNECTED
BLOCKING BETWEEN THE JOISTS MAY BE ADDED TO SATISFY ADDITIONAL
DESIGNER REQUIREMENTS. PARALLEL END WALL JOISTS SHOULD BE
CONNECTED BY CONVENTIONAL ANCHOR BOLT & LEDGER ASSEMBLY TO
BE SPECIFIED BY PROJECT DESIGNER. DESIGNER TO VERIFY 3" BEARING
SURFACE IS SUFFICIENT FOR EACH JOIST OR TRUSS MEMBER AS
PROVIDED BY THE BEARING BRACKET PART # ICFSBB.

SHEAR VALUES USED FOR THE ABOVE LOAD TABLE DESIGN IS BASED ON
TESTED SCREW VALUES WITHIN THE ASSEMBLY AND HANGER INSERT
PLATE. (#CFHIP). THEORETICAL VALUES. ALL SCREWS IN THIS ASSEMBLY
MUST BE FASTENED THROUGH THE TWO OVERLAPPING METAL
COMPONENTS / PARTS AND BACKED BY SOLID WOOD PROVIDED BY THE
JOIST OR TRUSS BEING CONNECTED.

HANGER ASSEMBLY NOT INTENDED FOR USE WITH PRESSURE TREATED
LUMBER OR EXTERIOR APPLICATIONS WHERE EXPOSED TO THE WEATHER
OR CORROSIVE ENVIRONMENTS.

ICF CONNECT LTD.
WOODBRIDGE, ONT., CANADA

Structural Design by:
AVANTI
Engineering & Design Inc.
Box 240, Oro, Ontario, L0L 2X0
Tel. 705-735-2000 Fax 705-735-4400

ICF MULTI-PURPOSE
HANGER SYSTEM

RESIDENTIAL FLOOR
JOIST SPAN TABLE

Revision/Issue: Date: MAY 2008

S1