

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Please Read
Application And
Notes, If Any,
Attached

PERMIT ISSUED
Permit Number 060019
JAN 20 2006

This is to certify that O'BRION RONALD G JR & MERRY V Scan Design
has permission to Create sunroom 12x14

AT 32 PANORAMIC VIEW ST

388 B028001 CITY OF PORTLAND
provided that the person or persons who accept this permit shall comply with all
of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating
the construction, maintenance and use of buildings and structures, and of the application on file in
this department.

Apply to Public Works for street line
and grade if nature of work requires
such information.

Notification of inspection must be
given and when permission is procured
before this building or part thereof is
occupied or service is closed-in. 4
HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be
procured by owner before this build-
ing or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. _____

Health Dept. _____

Appeal Board _____

Other _____
Department Name

[Signature]
01/20/06
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 06-0011	Issue Date: JAN 20 2006	CBL: 388 B02800
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Location of Construction: 32 PANORAMIC VIEW ST	Owner Name: O'BRION RONALD G JR & TERR	Owner Address: 32 PANORAMIC VIEW ST	Phone: 2072338671
Business Name:	Contractor Name: American Design	Contractor Address: 918 Brighton Ave. Portland	Phone: 2072338671
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Dwellings	Zone: R-2

Past Use: Single Family	Proposed Use: Single Family create sunroom 12x14	Permit Fee: \$129.00	Cost of Work: \$12,000.00	CEO District: 5
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FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied Signature: <i>NA</i>	INSPECTION: Use Group: <i>R-3</i> Type: <i>SB</i> <i>IRC 2003</i> Signature: <i>[Signature]</i>
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Proposed Project Description:
Create sunroom 12x14

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: dmartin	Date Applied For: 01/04/2006 <i>12/28/05</i>	Zoning Approval
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>01/20/06</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>01/20/06</i>
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CERTIFICATION


I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



General Building Permit Application

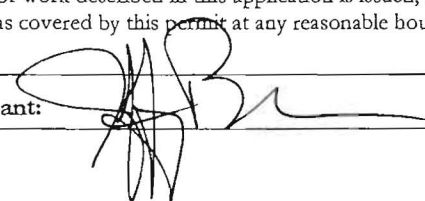
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>32 Panoramic View, Portland</u>		
Total Square Footage of Proposed Structure <u>168</u>	Square Footage of Lot <u>14,400</u>	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>388 B 028</u>	Owner: <u>Ron + Terri O'Brien</u>	Telephone: <u>797-0884</u>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>American Design 918 Brighton Ave Portland ME 04102</u>	Cost Of Work: \$ <u>12,000.-</u> Fee: \$ <u>96.00</u> C of O Fee: \$ <u>129.00</u>
Current Specific use: <u>Single Family Residence</u>		
Proposed Specific use:		
Project description: <u>Attached 3 Season Sunroom w/ 14' proj 12'</u>		
Contractor's name, address & telephone: <u>American Design, 918 Brighton Ave. Portland ME 04102</u>		
Who should we contact when the permit is ready: <u>Jeff Brown</u>		
Mailing address: <u>SAME</u>	Phone: <u>233-8671</u> <i>TX call</i>	

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: 	Date: <u>28 Dec 2005</u>
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This is not a permit; you may not commence ANY work until the permit is issued.

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- Footings/Building Location Inspection: Prior to pouring concrete
- Re-Bar Schedule Inspection: Prior to pouring concrete
- Foundation Inspection: Prior to placing ANY backfill
- Framing/Rough Plumbing/Electrical: Prior to any insulating or drywalling
- Final Certificate of Occupancy: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

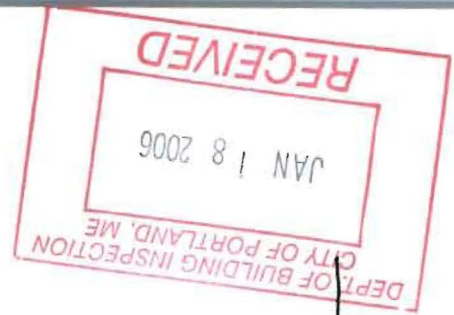
If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

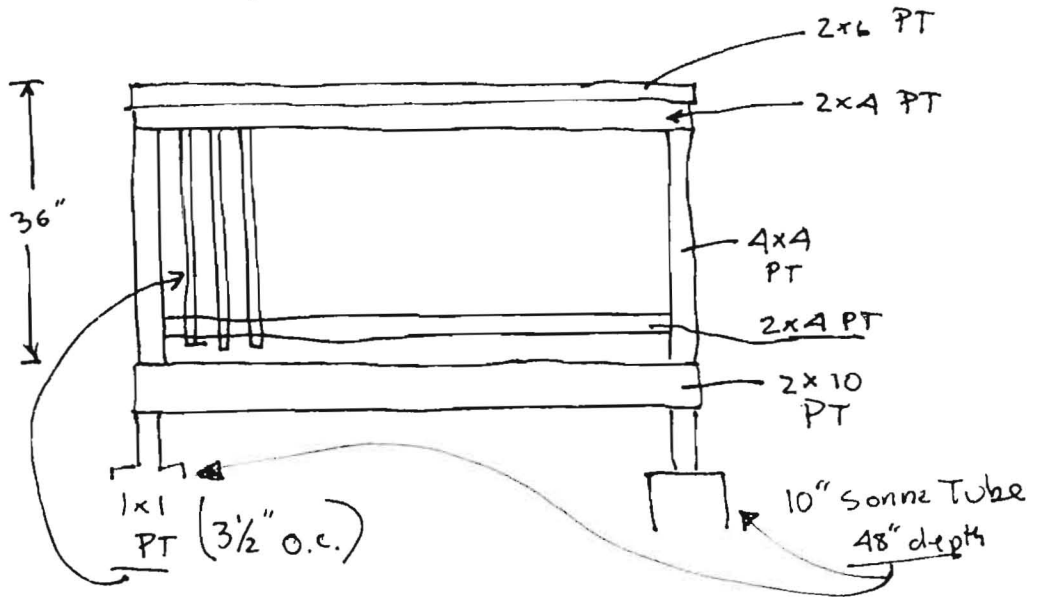
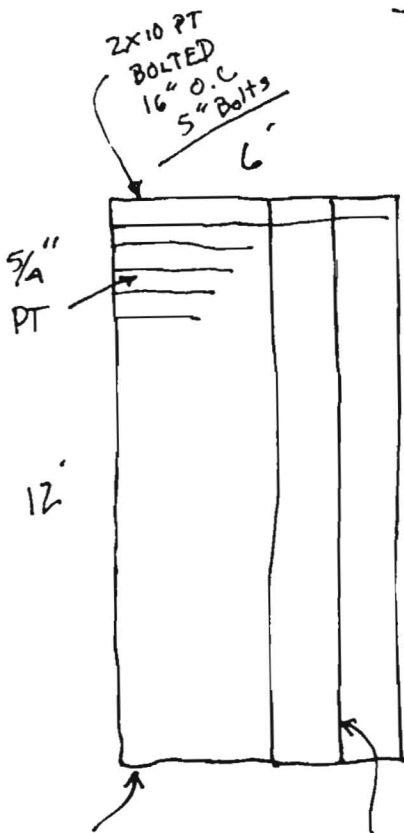
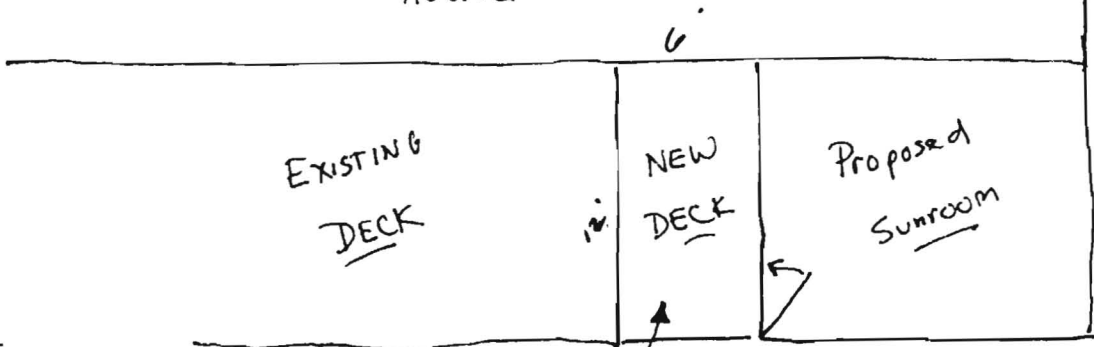
[Signature] _____ Date _____
Signature of Applicant/Designee
[Signature] _____ Date 1.25.06
Signature of Inspections Official

CBL: 388328 Building Permi # 060011

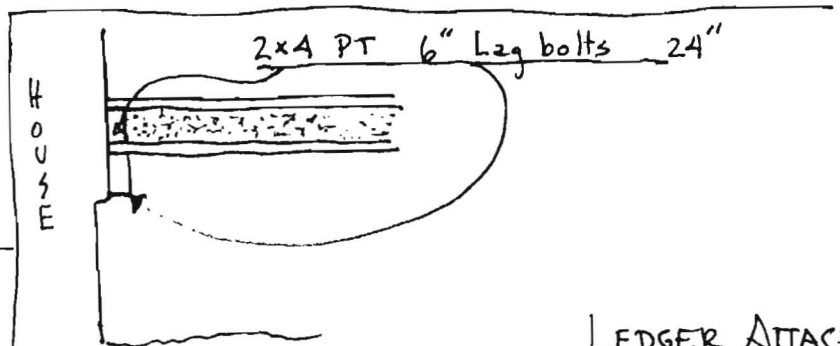
O'Brien 32 Panoramic View
 233-8671 Jeff Brown



HOUSE



2x10 PT
 2x10 PT 16" O.C.
 Joist Hangers

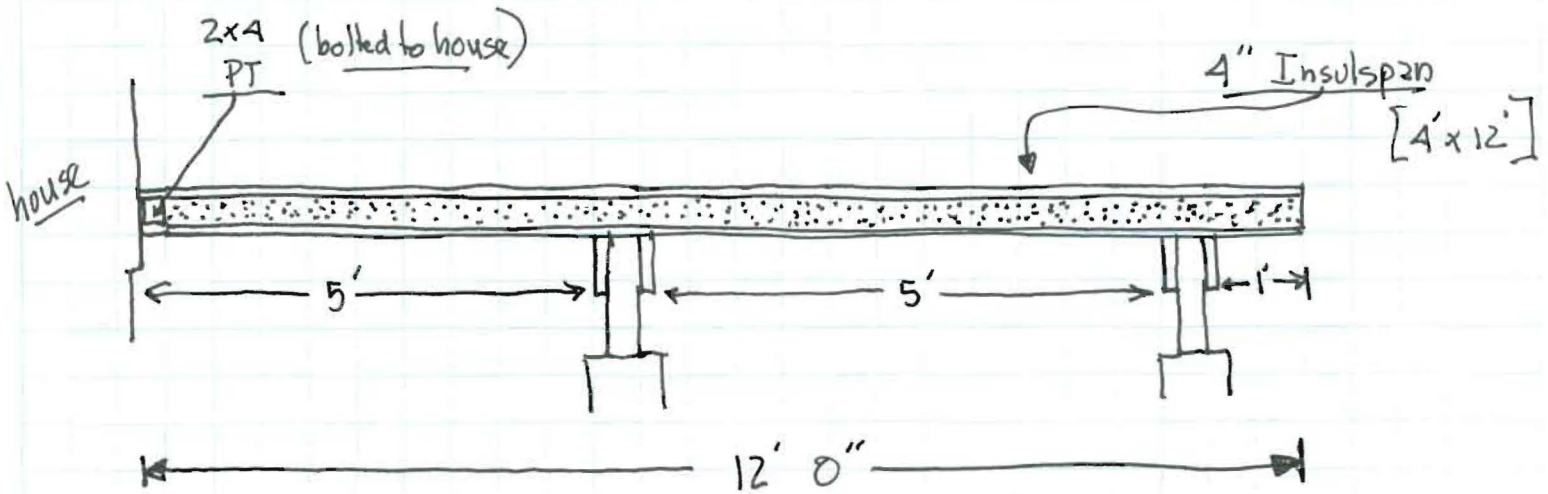
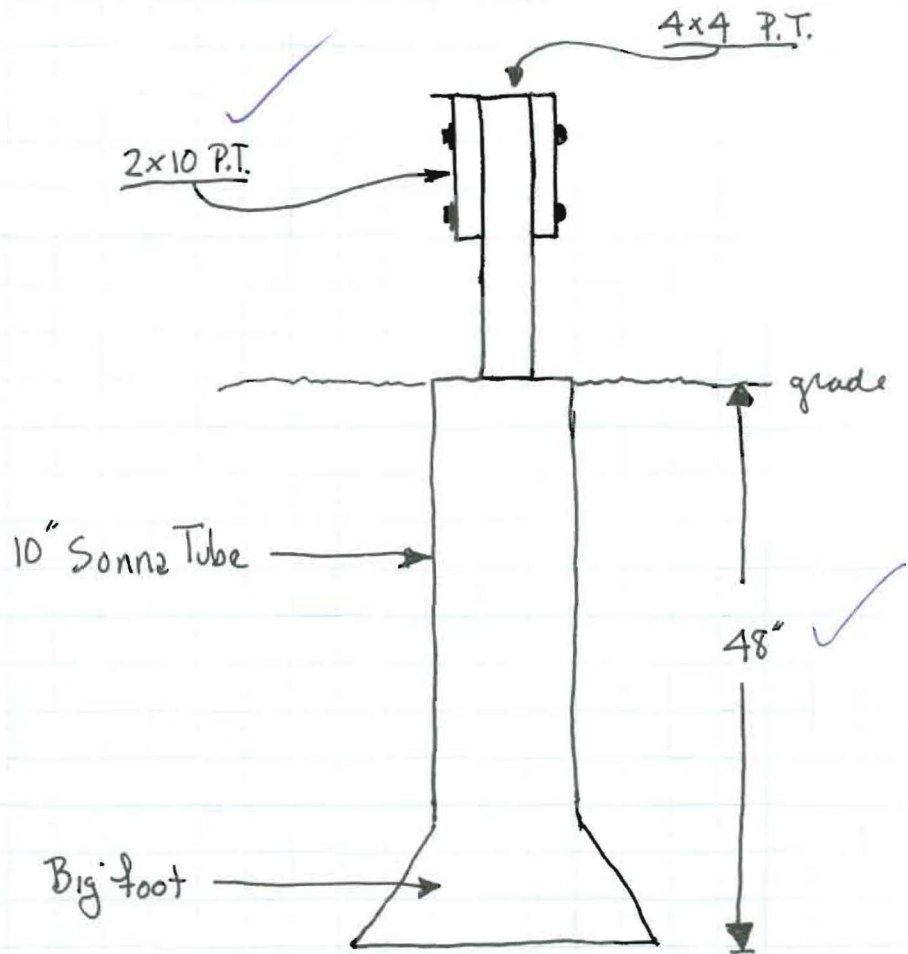


LEDGER ATTACH
 TO HOUSE

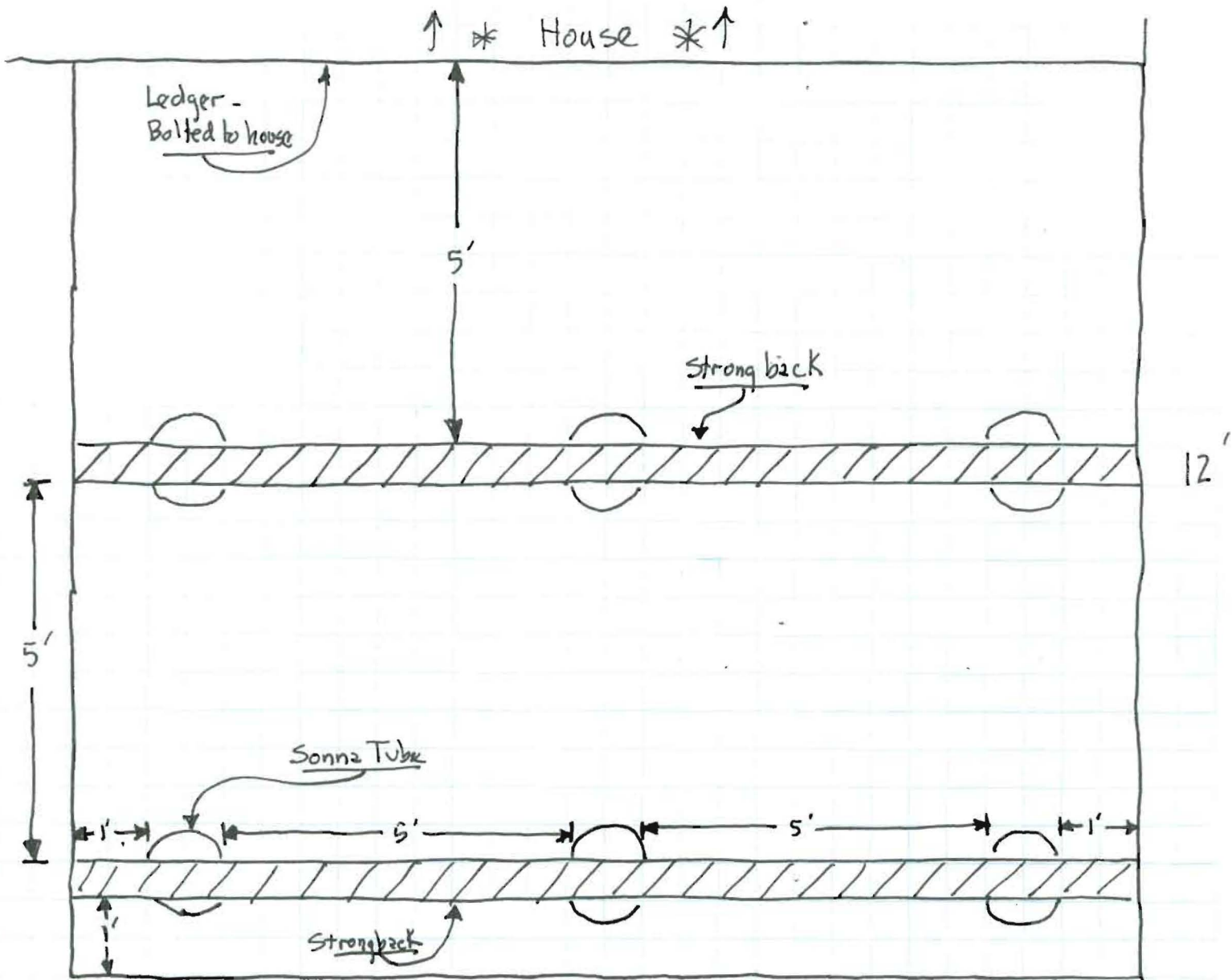
Wood Structures
 Lam Beam
 3 1/2" x 9 1/2" x 14'
 EXCEEDS SNOW LOAD
 OF 60 LBS.

O'BRION

Strong back
Sonna Tube
Big foot



O'BRIEN



14'



CODE REPORTS AND LOAD TABLES

The Insulspan National Building Code Listing is a convenient method to satisfy the local building authority questions regarding the conformance of the Insulspan Structural Insulated Panel Building System to the three basic Model Building Codes. Insulspan National Evaluation Report #520 assures local authorities that the Insulspan system, as detailed in the Report, has been reviewed by B.O.C.A., I.C.B.O. and S.B.C.C.I. The granting of this report is confirmation by the Model Code Agencies, that the Insulspan system conforms to all three codes.

Insulspan structural insulated panels have been evaluated by the National Evaluation Service, Inc. and are covered by NES evaluation report 520. This report confirms that Insulspan structural insulated panels satisfy the provisions of the BOCA National Codes, SBCCI Standard Codes, the ICBO Uniform Codes as well as the 2000 edition of the new International Codes of the International Code Council. Insulspan panels are also covered by the Department of Housing and Urban Development (HUD) Technical Suitability of Products Program as meeting the HUD Minimum Property Standards. These verifications of compliance with adopted codes and standards assure timely approval by state and local regulatory authorities which in turn enhances more timely and less costly project completion for our customers.

4-107

Revised 10.10.01



LEGACY REPORT

NER-520

Reissued November 1, 2002
Revision A: January 1, 2004

ICC Evaluation Service, Inc.
www.icc-es.org

Business/Regional Office ■ 5360 Workmen Mill Road, Whittier, California 90601 ■ (562) 899-0543
Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 999-8600
Regional Office ■ 4051 West Floreemor Road, Country Club Hills, Illinois 60478 ■ (708) 798-2305

Legacy report on the 2000 International Building Code®, the 2000 International Residential Code®, the 2002 Accumulative Supplement to the International Codes™, the BOCA® National Building Code/1999, the 1999 Standard Building Code® and the 1997 Uniform Building Code™

DIVISION: 06—WOOD AND PLASTICS
Section: 06120—Structural Panels

EVALUATION SUBJECT:

INSULSPAN STRUCTURAL INSULATED PANELS

MANUFACTURER:

INSULSPAN, INC.
P.O. BOX 38
BLISSFIELD, MI 49228
www.insulspan.com

ADDITIONAL LISTEES:

EXTREME PANEL TECHNOLOGIES
475 EAST 4TH STREET NORTH
P.O. BOX 436
COTTONWOOD, MN 56228

INSULSPAN / QLI
9012 EAST US 223
P.O. BOX 38
BLISSFIELD, MI 49228

1.0 SUBJECT

Insulspan Structural Insulated Panels

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

- 2.1 Structural
- 2.2 Surface Burning Characteristics
- 2.3 Fire Resistance

3.0 DESCRIPTION

3.1 General

The Insulspan Structural Insulated Panels are structural oriented strand board (OSB) sandwich panels which are used as components in roof, floor, and wall assemblies. The sandwich panels are factory constructed with oriented strand board skins on each face of an expanded polystyrene foam core. In order to join adjacent panels in the field during installation, spline studs are factory installed on one side of each panel. Alternatively, it is permitted to make provision on each side of the panels for field installation of

plywood or OSB surface splines under the skins of each face. When additional structural capacity is needed, an additional spline stud is incorporated in the interior of a panel or the spline stud at one side is doubled.

3.2 Material Specifications

3.2.1 Foam Core - the foam core is polystyrene, expanded from BASF beads (NER-479) or NOVA Chemicals Inc. beads (NER-236, Dylite M77) by board manufacturers under the supervision of a an accredited quality control agency. Nominal density is 1 pcf. The panels are available in insulation thicknesses of 3 1/2 and 5 1/2 inches (88.9 and 139.7 mm) for wall and floor applications and 3 1/2, 5 1/2, 7 1/4, 9 1/4, and 11 1/4 inches (88.9, 139.7, 184.2, 235, 285.8 mm) for roof applications. The foam core has a flame spread rating of not more than seventy-five (75) and a smoke developed rating of not more than four hundred fifty (450) when tested in accordance with ASTM E84 in a thickness of 5 inches (127 mm).

3.2.2 OSB skins - the OSB skins are APA or TECO rated sheathing, Exposure 1, 3/8 inch (9.5 mm) thick (24/0) or 7/16 inch (11.1 mm) thick (24/16), conforming to US DOC PS-2. Skins are one-piece for the full length of the panels (no joints in the skins). Maximum skin size is 8 feet (2440 mm) by 28 feet (8534 mm).

3.2.3 Spline Studs - the spline studs are No. 2 or better southern pine sawn lumber, No. 2 or better spruce-pine-fir sawn lumber, or 1 3/4 inch (44.5 mm) thick 1.8E DF Micro-lam LVL (NER-481). Alternatively, 3 inch (76.2 mm) wide, 5/8 inch (15.9 mm) thick plywood or OSB surface splines may be used when spline studs are not required for structural capacity or to meet fire resistance assembly details.

3.2.4 Adhesive - qualified adhesives are used to bond the OSB skins to the foam core and are identified in the manufacturer's quality control manual.

3.2.5 Nails - In addition to glue, nails are used to attach OSB skins to spline studs. Such nails are 6d or 8d (as may be required for racking loads) common nails meeting Federal Specification FF-N-105B and have a minimum F_u of 100,000 psi (690 MPa). When OSB or plywood surface splines are used, staples or fasteners shall be used as specified elsewhere in this report.

3.3 Structural Design

Standard panels are 4 ft. or 8 ft. (1220 or 2440 mm) in width and vary in height up to 28 ft. (8534 mm), and are illustrated in Figure 1.

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



Openings (headers and supporting framing) are accomplished by conventional framing methods and are not evaluated by this report.

Allowable loads for the panels are set forth in the tables at the end of this report.

3.4 Fire Resistance

Floor/ceiling, roof and wall assemblies constructed using Insulspan structural insulated panels can provide fire resistance ratings per ASTM E119. One floor/ceiling and roof/ceiling assembly and one wall assembly have been evaluated by this report.

Floor assemblies and roof/ceiling assemblies required to have a fire resistance ratings per ASTM E119 of ONE HOUR shall meet the construction requirements of Figure 2. Wall assemblies required to have a fire resistance ratings per ASTM E119 of ONE HOUR shall meet the construction requirements of Figure 3.

4.0 INSTALLATION

When required by the applicable Code, each structure built using Insulspan Structural Insulated Panels shall be designed by a registered architect or engineer and drawings must be provided which bear their registered stamp or seal when applying for a building permit. Such drawings shall contain specific instructions with regard to connections, erection, and installation of the panels and shall be available at all times on the job site during installation.

6.0 IDENTIFICATION

All Insulspan Structural Insulated Panels shall be identified by a stamp indicating the panel type, NER-520, the manufacturer's name and/or trademark, and the PFS Corporation logo.

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's quality control manual.
- 6.2 Manufacturer's Installation Guide
- 6.3 Report of tests conducted in accordance with ASTM E72, prepared by PFS Corporation:
 - Report #PFS 84-116, signed by Edwin Schaffer, Ph. D., P.E.
 - Report #PFS 88-50, signed by Edwin Schaffer, Ph. D., P.E.
 - Report #PFS 91-32, signed by Ronald H. Reindl, A.I.A.
 - Report #PFS 84-17, signed by Edwin Hodgson and Ralph L. Tonn, P.E.
 - Report #PFS 99-37, signed by James A. Rothman, P.E.
- 6.4 Report of tests conducted in accordance with ASTM E119:
 - prepared by Southwest Research Institute, SwRI Project No. 01-8305-029, dated June 1985, signed by Nigel R. Stamp, Jesse J. Beltel, and Dr. Gordon E. Hartzell.
 - prepared by Southwest Research Institute, SwRI Project No. 01-2305-311, dated June 1999, signed by Andre Garabedian and Alex B. Wenzel.
- 6.5 Report of tests conducted in accordance with UL 1256, prepared by Southwest Research Institute, SwRI Project No. 01-2303-273, dated June 23, 1999, signed by Anthony L. Saucedo and Alex B. Wenzel.

6.6 Structural calculations and allowable load tables, prepared by Steven Winter Associates, Inc., signed and sealed by George Thomas Bible, P.E., F.A.

6.7 Manufacturer's published allowable load tables dated September 9, 1999.

6.8 Report entitled *Comparative Tests for NES Qualification of New Adhesive and New Bead Applicator*, Report No. CI 59908 prepared by CI Professional Services, Inc., dated May 29, 1999, signed by Terence J. Cavanagh.

6.9 Engineering report on analysis of results of comparative tests concerning qualification of new adhesive and new bead applicator, prepared by TJC and Associates, Inc., TJCAA Project No. 19920, dated May 24, 1999, signed and sealed by Terence Cavanagh.

6.10 Letter and supporting calculations concerning percentage of allowable load present in walls tested for fire resistance, prepared by PFS Corporation, dated May 9, 2000, signed by James A. Rothman, P.E.

6.11 Letters clarifying issues related to fire testing of the floor/ceiling assembly, prepared by Southwest Research Institute, dated August 21, 2000 and October 9, 2000, signed by Andre Garabedian and Alex B. Wenzel.

6.12 Letter discussing fire performance of UL 1256 fire tests (general fire behavior and spine options), prepared by PFS Corporation, dated June 23, 2000, signed by Michael J. Sifka, P.E.

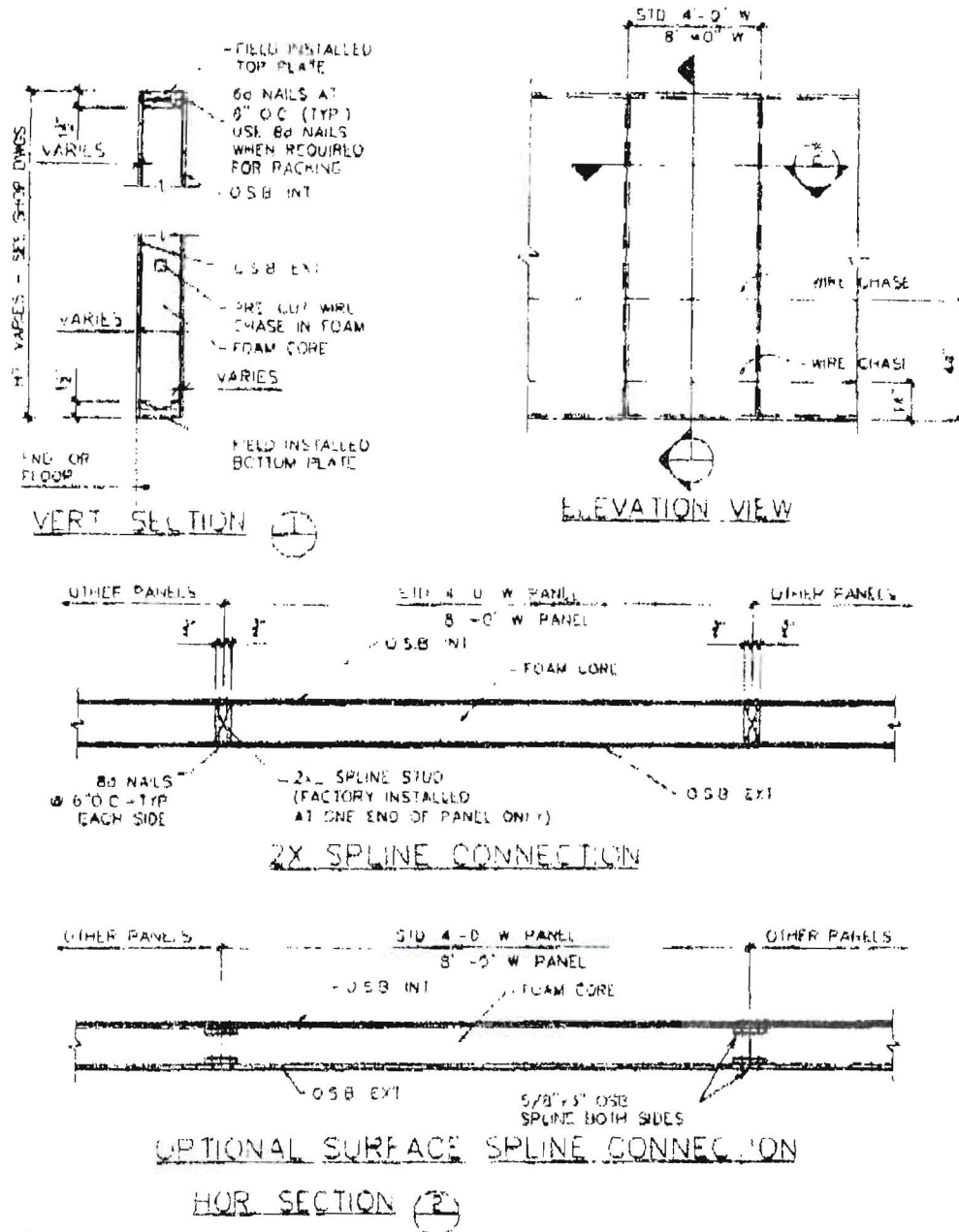
7.0 CONDITIONS OF USE

The ICC-ES Subcommittee for the National Evaluation Service finds that Insulspan Structural Insulated Panels as described in this report comply with or are suitable alternatives to the 2000 *International Building Code*[®], the 2000 *International Residential Code*[®], the 2002 *Accumulative Supplement to the International Codes*[™], the BOCA[®] *National Building Code/1999*, the 1999 *Standard Building Code*[®] and the 1997 *Uniform Building Code*[™], subject to the following conditions:

- 7.1 The Insulspan Structural Insulated Panels are fabricated and erected to comply with this report. Design loads shall be determined in accordance with the applicable code and loadings on the panels shall not exceed the allowable loads noted in the allowable load tables at the end of this report. Additionally, for plastered ceilings, the live load deflection shall be limited to 1/380th of the span.
- 7.2 Design calculations and details for specific applications using Insulspan Structural Insulated Panels shall be furnished to the code official verifying compliance with this report and the applicable code. The individual preparing such documents shall possess the necessary credentials regarding competency and qualifications as required by the applicable code and the professional registration laws of the state where the construction is under taken.
- 7.3 Panels having core thicknesses of greater than 5 1/2 inches (139.7 mm) shall have 7/16 inch (11.1 mm) thick skins only and are limited to roof applications only.
- 7.4 The scope of this report is limited to an evaluation of the structural capacity of the panels and the fire resistance rating of assemblies using the panels. Panel connections and other issues concerning the panels incorporation into the structural system of a building are not within the scope of this report.

- 7.6 The panel core shall be separated from the interior of the building by an approved 15 minute thermal barrier installed as prescribed in the applicable code.
- 7.7 The exterior of the wall panels and roof panels shall be covered with an approved exterior wall covering or an approved roof covering respectively.
- 7.8 The use of the panels shall be limited to buildings where combustible construction is permitted by the applicable code.
- 7.9 This report does not include an evaluation of panels whose components are preservative treated or fire retardant treated wood.
- 7.9 No cutting or routing of the panels shall be permitted except as shown on approved drawings.
- 7.10 The foam plastic core shall be manufactured from beads listed in Section 3.2.1 of this report, with no additional additives applied by the block molder.
- 7.11 This report is subject to periodic re-examination. For information on the current status of this report, contact the ICC-ES.

FIGURE 1*



DATE: 09/28/00

STANDARD WALL PANEL AND DETAILS

INSULSPAN

MAXIMUM ALLOWABLE RACKING LOAD

ALLOWABLE RACKING LOAD (for stapled surface splines only)	208 PLF
ALLOWABLE RACKING LOAD (for nailed SPF wood splines only)	385 PLF

MAXIMUM ALLOWABLE SPANS FOR TRANSVERSE LOADS

TOTAL LOAD (DEAD + LIVE) 80 PSF	SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/360					SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/240				
	PANEL THICKNESS					PANEL THICKNESS				
	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"
NO SPLINE	9'	13'	16'	18'	20'	9'	13'	16'	18'	20'
SINGLE SPLINE										
SPF #2	10'	13'	16'	20'	20'	12'	16'	20'	24'	28'
GYP #2	12'	16'	22'	26'	28'	12'	16'	20'	27'	28'
LVL	13'	18'	22'	26'	28'	16'	20'	24'	27'	28'
DOUBLE SPLINE										
SPF #2	13'	18'	22'	26'	28'	10'	20'	24'	28'	28'
GYP #2	14'	18'	23'	27'	28'	16'	21'	28'	28'	28'
LVL	14'	18'	23'	28'	28'	16'	21'	25'	28'	28'

TOTAL LOAD (DEAD + LIVE) 80 PSF	SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/360					SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/240				
	PANEL THICKNESS					PANEL THICKNESS				
	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"
NO SPLINE	7'	10'	13'	15'	16'	7'	10'	13'	15'	16'
SINGLE SPLINE										
SPF #2	7'	10'	13'	16'	18'	9'	13'	16'	18'	22'
GYP #2	8'	12'	16'	20'	22'	9'	13'	16'	20'	23'
LVL	12'	16'	19'	22'	25'	13'	16'	19'	22'	25'
DOUBLE SPLINE										
SPF #2	11'	15'	18'	22'	25'	12'	17'	20'	23'	26'
GYP #2	12'	16'	18'	23'	27'	13'	17'	20'	24'	27'
LVL	12'	16'	20'	24'	28'	13'	17'	21'	24'	28'

TOTAL LOAD (DEAD + LIVE) 80 PSF	SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/360					SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/240				
	PANEL THICKNESS					PANEL THICKNESS				
	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"
NO SPLINE	8'	8'	10'	12'	14'	8'	8'	11'	13'	14'
SINGLE SPLINE										
SPF #2	8'	8'	10'	13'	15'	8'	11'	14'	16'	19'
GYP #2	8'	9'	12'	15'	17'	8'	11'	14'	16'	19'
LVL	8'	14'	17'	19'	22'	9'	14'	17'	18'	22'
DOUBLE SPLINE										
SPF #2	8'	14'	17'	20'	22'	9'	14'	17'	20'	22'
GYP #2	10'	14'	17'	20'	23'	10'	15'	17'	20'	23'
LVL	10'	15'	18'	21'	24'	10'	15'	18'	21'	24'

TOTAL LOAD (DEAD + LIVE) 80 PSF	SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/360					SKIN THICKNESS = 7/16 INCHES DEFLECTION CRITERION = L/240				
	PANEL THICKNESS					PANEL THICKNESS				
	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"	4-3/8"	6-3/8"	8-1/8"	10-1/8"	12-1/8"
NO SPLINE	8'	7'	9'	11'	12'	8'	7'	9'	11'	12'
SINGLE SPLINE										
SPF #2	8'	7'	9'	11'	13'	7'	9'	12'	14'	17'
GYP #2	8'	7'	9'	12'	14'	7'	9'	12'	14'	17'
LVL	7'	12'	13'	17'	19'	7'	12'	15'	17'	19'
DOUBLE SPLINE										
SPF #2	7'	11'	14'	17'	20'	7'	11'	14'	17'	20'
GYP #2	8'	13'	16'	18'	21'	8'	13'	16'	18'	21'
LVL	8'	13'	16'	19'	21'	8'	13'	16'	18'	21'

See Page 9 of this report for footnotes

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Table 1. Allowable Spans for Transverse Loads on Insulspan Panels

9/9/99

INSULSPAN MAXIMUM ALLOWABLE HEIGHTS FOR AXIAL LOADS

SKIN THICKNESS = 7/16 IN.
PANEL THICKNESS = 4-3/8 IN.

AXIAL LOAD (NON-BEARING) 0 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE		17'	14'	12'	10'	9'	17'	14'	12'	10'	9'
SINGLE SPLINE											
SPF #2	20'	14'	12'	10'	9'	20'	14'	12'	10'	9'	
SYP #2	20'	17'	12'	10'	9'	20'	17'	12'	10'	9'	
LVL	20'	17'	16'	14'	13'	20'	17'	16'	14'	13'	
DOUBLE SPLINE											
SPF #2	20'	17'	15'	14'	13'	20'	17'	15'	14'	13'	
SYP #2	20'	17'	16'	14'	13'	20'	17'	16'	14'	13'	
LVL	20'	18'	16'	15'	13'	20'	18'	16'	15'	13'	

AXIAL LOAD 1000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE		15'	13'	11'	10'	9'	15'	13'	11'	10'	9'
SINGLE SPLINE											
SPF #2	18'	14'	12'	10'	9'	18'	14'	12'	10'	9'	
SYP #2	18'	16'	12'	10'	9'	18'	16'	12'	10'	9'	
LVL	18'	17'	15'	14'	13'	18'	17'	15'	13'	12'	
DOUBLE SPLINE											
SPF #2	18'	17'	15'	14'	13'	18'	17'	15'	13'	12'	
SYP #2	18'	17'	15'	14'	13'	18'	17'	15'	14'	13'	
LVL	20'	17'	16'	14'	13'	20'	17'	15'	14'	13'	

AXIAL LOAD 2000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE		14'	12'	10'	9'	8'	8'	7'	6'	6'	
SINGLE SPLINE											
SPF #2	17'	14'	12'	10'	9'	12'	10'	9'	8'	8'	
SYP #2	16'	16'	12'	10'	9'	12'	11'	9'	8'	8'	
LVL	16'	16'	14'	13'	12'	13'	11'	10'	9'	8'	
DOUBLE SPLINE											
SPF #2	18'	16'	15'	13'	12'	13'	11'	10'	9'	8'	
SYP #2	18'	16'	15'	13'	12'	13'	11'	10'	9'	8'	
LVL	19'	16'	15'	14'	13'	14'	12'	10'	9'	8'	

AXIAL LOAD 3000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE		13'	11'	9'	8'	7'	—	—	—	—	—
SINGLE SPLINE											
SPF #2	16'	14'	12'	10'	9'	—	—	—	—	—	
SYP #2	16'	14'	12'	10'	9'	—	—	—	—	—	
LVL	16'	14'	12'	11'	10'	—	—	—	—	—	
DOUBLE SPLINE											
SPF #2	16'	14'	12'	11'	10'	—	—	—	—	—	
SYP #2	17'	14'	13'	12'	11'	—	—	—	—	—	
LVL	17'	14'	13'	12'	11'	—	—	—	—	—	

See Page 9 of this report for footnotes

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Table 2. Allowable Heights for Axial Loads on Insulspan Panels - 4-3/8 inch thick

9/9/99

INSULSPAN MAXIMUM ALLOWABLE HEIGHTS FOR AXIAL LOADS

SKIN THICKNESS =	7/16 IN.
PANEL THICKNESS =	6-3/8 IN.

AXIAL LOAD (NON-BEARING) 0 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	23'	19'	16'	14'	13'	23'	19'	16'	14'	13'	
SINGLE SPLINE											
SPF #2	26'	20'	16'	14'	13'	26'	20'	16'	14'	13'	
SYP #2	27'	23'	16'	15'	15'	27'	23'	16'	15'	15'	
LVL	27'	23'	20'	16'	16'	27'	23'	20'	16'	16'	
DOUBLE SPLINE											
SPF #2	27'	23'	20'	16'	17'	27'	23'	20'	16'	17'	
SYP #2	27'	24'	21'	19'	17'	27'	24'	21'	19'	17'	
LVL	28'	24'	21'	19'	17'	28'	24'	21'	19'	17'	

AXIAL LOAD 1000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	21'	16'	15'	14'	12'	21'	16'	15'	14'	12'	
SINGLE SPLINE											
SPF #2	25'	20'	16'	14'	13'	25'	20'	16'	14'	13'	
SYP #2	26'	22'	16'	15'	15'	26'	22'	16'	15'	15'	
LVL	26'	23'	20'	16'	16'	26'	22'	20'	16'	16'	
DOUBLE SPLINE											
SPF #2	26'	23'	20'	16'	17'	26'	23'	20'	16'	16'	
SYP #2	27'	23'	21'	19'	17'	27'	23'	20'	16'	17'	
LVL	27'	24'	21'	19'	17'	27'	24'	21'	19'	17'	

AXIAL LOAD 2000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	20'	17'	16'	13'	12'	14'	12'	11'	9'	9'	
SINGLE SPLINE											
SPF #2	24'	20'	16'	14'	13'	17'	15'	13'	12'	11'	
SYP #2	25'	22'	16'	15'	15'	18'	15'	15'	12'	11'	
LVL	25'	22'	16'	17'	16'	18'	15'	14'	12'	11'	
DOUBLE SPLINE											
SPF #2	26'	22'	16'	17'	16'	18'	15'	14'	12'	11'	
SYP #2	26'	23'	20'	16'	16'	18'	15'	15'	13'	12'	
LVL	26'	23'	20'	16'	17'	20'	17'	15'	13'	12'	

AXIAL LOAD 8000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	19'	16'	14'	12'	11'	—	—	—	—	—	
SINGLE SPLINE											
SPF #2	21'	16'	16'	14'	13'	—	—	—	—	—	
SYP #2	22'	16'	16'	15'	13'	—	—	—	—	—	
LVL	22'	16'	17'	16'	14'	4'	4'	—	—	—	
DOUBLE SPLINE											
SPF #2	22'	16'	17'	15'	14'	5'	4'	4'	—	—	
SYP #2	23'	16'	17'	16'	14'	7'	6'	5'	5'	5'	
LVL	23'	20'	17'	16'	14'	8'	7'	6'	6'	6'	

See Page 9 of this report for footnotes

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Table 3. Allowable Heights for Axial Loads on Insulspan Panels - 6-3/8 Inch thick

9/9/99

INSULSPAN MAXIMUM ALLOWABLE HEIGHTS FOR AXIAL LOADS

SKIN THICKNESS = 7/16 IN.
PANEL THICKNESS = 4-1/4 IN.

AXIAL LOAD (NON-BEARING) 6 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	17'	14'	12'	10'	9'	17'	14'	12'	10'	9'	
SINGLE SPLINE											
SPP #2	10'	14'	12'	10'	9'	10'	14'	12'	10'	9'	
SYP #2	20'	16'	12'	10'	9'	20'	16'	12'	10'	9'	
LVL	20'	17'	15'	13'	12'	20'	17'	15'	13'	12'	
DOUBLE SPLINE											
SPP #2	20'	17'	15'	13'	12'	20'	17'	15'	13'	12'	
SYP #2	20'	17'	15'	13'	12'	20'	17'	15'	13'	12'	
LVL	20'	17'	15'	13'	12'	20'	17'	15'	13'	12'	

AXIAL LOAD 1000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	15'	13'	11'	10'	9'	15'	13'	11'	10'	9'	
SINGLE SPLINE											
SPP #2	18'	14'	12'	10'	9'	18'	14'	12'	10'	9'	
SYP #2	18'	16'	12'	10'	9'	18'	15'	12'	10'	9'	
LVL	18'	17'	15'	13'	12'	18'	15'	14'	12'	11'	
DOUBLE SPLINE											
SPP #2	18'	17'	15'	13'	12'	18'	16'	14'	12'	11'	
SYP #2	18'	17'	15'	13'	12'	18'	16'	14'	13'	12'	
LVL	20'	17'	15'	13'	12'	18'	16'	14'	13'	12'	

AXIAL LOAD 2000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	14'	12'	10'	9'	8'	7'	6'	6'	5'	4'	
SINGLE SPLINE											
SPP #2	18'	14'	12'	10'	9'	10'	8'	7'	7'	6'	
SYP #2	18'	15'	12'	10'	9'	10'	9'	8'	7'	6'	
LVL	18'	15'	13'	12'	11'	10'	9'	8'	7'	7'	
DOUBLE SPLINE											
SPP #2	18'	15'	13'	12'	11'	11'	9'	8'	7'	7'	
SYP #2	18'	16'	14'	12'	11'	11'	10'	8'	8'	7'	
LVL	18'	16'	14'	13'	12'	12'	10'	9'	8'	7'	

AXIAL LOAD 3000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 2-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	13'	11'	9'	8'	7'	—	—	—	—	—	
SINGLE SPLINE											
SPP #2	15'	12'	13'	10'	9'	—	—	—	—	—	
SYP #2	15'	13'	11'	10'	9'	—	—	—	—	—	
LVL	15'	13'	11'	10'	9'	—	—	—	—	—	
DOUBLE SPLINE											
SPP #2	15'	13'	11'	10'	9'	—	—	—	—	—	
SYP #2	15'	13'	11'	10'	10'	—	—	—	—	—	
LVL	15'	13'	12'	11'	10'	—	—	—	—	—	

See Page 8 of this report for footnotes

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Table 4. Allowable Heights for Axial Loads on Insulspan Panels - 4-1/4 Inch Thick

9/9/99

INSULSPAN MAXIMUM ALLOWABLE HEIGHTS FOR AXIAL LOADS

SKIN THICKNESS = 3/8 IN.
PANEL THICKNESS = 6-1/4 IN.

AXIAL LOAD (NON-BEARING) 6 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	23'	18'	16'	15'	13'	23'	18'	16'	15'	13'	
SINGLE SPLINE											
SPF #2	26'	19'	16'	15'	13'	26'	19'	16'	15'	13'	
SYP #2	26'	21'	16'	15'	13'	26'	21'	16'	15'	13'	
LVL	27'	22'	16'	17'	15'	27'	22'	16'	17'	15'	
DOUBLE SPLINE											
SPF #2	27'	22'	16'	17'	15'	27'	22'	16'	17'	15'	
SYP #2	28'	22'	16'	17'	15'	28'	22'	16'	17'	15'	
LVL	28'	23'	20'	18'	16'	28'	23'	20'	18'	16'	

AXIAL LOAD 1000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	21'	16'	14'	13'	12'	21'	16'	14'	13'	12'	
SINGLE SPLINE											
SPF #2	25'	19'	16'	15'	13'	24'	19'	16'	15'	13'	
SYP #2	26'	21'	16'	15'	13'	24'	20'	16'	15'	13'	
LVL	26'	22'	16'	17'	15'	25'	21'	16'	16'	15'	
DOUBLE SPLINE											
SPF #2	26'	22'	16'	17'	15'	25'	21'	16'	16'	15'	
SYP #2	27'	22'	16'	17'	15'	26'	22'	16'	17'	15'	
LVL	27'	23'	20'	18'	16'	26'	22'	16'	17'	15'	

AXIAL LOAD 2000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	20'	17'	15'	13'	12'	12'	10'	9'	8'	7'	
SINGLE SPLINE											
SPF #2	23'	19'	16'	15'	13'	18'	12'	11'	10'	9'	
SYP #2	24'	20'	16'	15'	13'	15'	13'	11'	10'	9'	
LVL	24'	20'	16'	16'	15'	18'	13'	11'	10'	9'	
DOUBLE SPLINE											
SPF #2	24'	20'	16'	16'	15'	16'	13'	12'	10'	10'	
SYP #2	25'	21'	16'	17'	15'	17'	14'	12'	11'	10'	
LVL	25'	21'	16'	17'	15'	17'	14'	13'	12'	11'	

AXIAL LOAD 3000 PLF		ECCENTRICITY = 0 IN.					ECCENTRICITY = 3-3/16 INCHES				
		WIND PRESSURE (PSF)					WIND PRESSURE (PSF)				
		10	15	20	25	30	10	15	20	25	30
NO SPLINE	16'	15'	13'	12'	11'	—	—	—	—	—	
SINGLE SPLINE											
SPF #2	20'	16'	14'	13'	12'	—	—	—	—	—	
SYP #2	20'	17'	16'	13'	12'	—	—	—	—	—	
LVL	20'	17'	16'	13'	12'	—	—	—	—	—	
DOUBLE SPLINE											
SPF #2	20'	17'	15'	14'	12'	—	—	—	—	—	
SYP #2	21'	16'	15'	14'	13'	—	—	—	—	—	
LVL	21'	16'	16'	14'	13'	—	—	—	—	—	

See Page 9 of this report for footnotes

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Table 5. Allowable Heights for Axial Loads on Insulspan Panels - 6-1/4 inch thick

9/9/99

Footnotes for Racking Load Table

Panels are made of two equal layers of APA or TECO rated OSB sheathing. The core shall be nominal 1.0 pcf density (min. 0.9 pcf) EPS (expanded polystyrene) foam adhered to the sheathing with glue and set under pressure.

1. Allowable load of 208 plf is based on using surface splines consisting of minimum 3 inch wide, 5/8 inch thick AD plywood at all panel edges, both sides. Panel skins shall be stapled to the splines using minimum 16 ga., 7/16 inch crown by 1-3/4 inch long staples along all panel edges at 6 inches on center, both sides.
2. Allowable load of 385 plf is based on using minimum 2x SPF solid sawn lumber splines at all panel edges. Panel skins shall be nailed to the splines using minimum 8d common nails along all panel edges at 6 inches on center, both sides.

Footnotes for Transverse Loads Tables

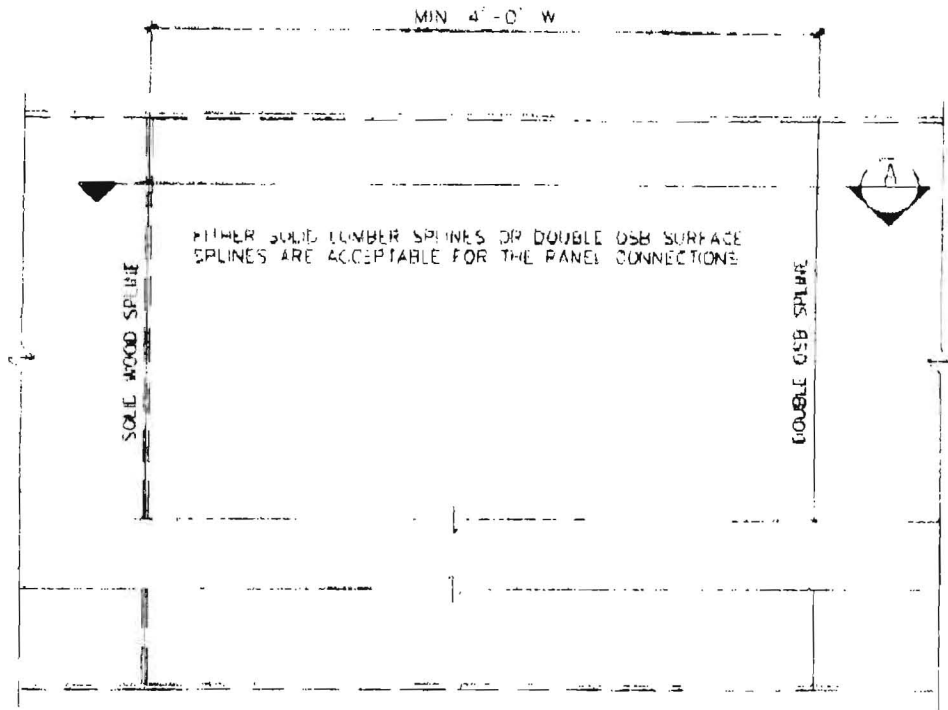
Panels shall be made of two equal layers of APA or TECO rated OSB sheathing. The core shall be nominal 1.0 pcf density (min. 0.9 pcf) EPS (expanded polystyrene) foam adhered to the sheathing with glue and set under pressure. In panels with spline studs, the skins shall be nailed to the spline studs with 8d nails @ 6 inches o.c. When the tables indicate that no spline studs are required for structural capacity, it is permitted to join adjacent panels using 3 inch (76.2 mm) wide, 5/8 inch (15.9 mm) thick plywood or OSB surface splines under the skins of each face instead of spline studs. The surface splines shall be installed using a gap filling expanding foam sealant and 1-1/4 inch (25.4 mm) long, No. 6 screws at 6 inches (152 mm) on center on each side of the joint.

1. Values shown are allowable spans due to dead load plus live load.
2. The tables reflect two deflection criteria. For all panels the deflection criteria of L/360 shall be used for floor loads. For roof panels with slopes less than 3 in 12 pitch, the L/360 deflection criterion shall be used. For roof panels with slopes of 3 in 12 or greater, the deflection criterion of L/240 shall be acceptable.
3. To minimize deflection creep on panels without splines loaded with permanent or long-duration loads (> 6 mo.), find the allowable span on the table for twice the actual load (i.e. use 40 psf for actual load of 20 psf.)
4. Some allowable spans are not based on deflections, therefore, no multipliers for other deflection criteria shall be allowed.
5. All values are for normal duration loads. No increases for other durations are allowed.
6. Maximum spans are limited to the maximum panel size, 28 feet.
7. All values listed are for single-span panels with supports at each end.
8. For eight foot wide panels with splines at 8'-0" o.c., use table values for sandwich panels without splines; for panels with splines at 4'-0" o.c., use tables for single splines.
9. All values are based on INSULSPAN - Transverse Load Tables (T.1 - T.38), "INSULSPAN 1999", dated September 9, 1999.

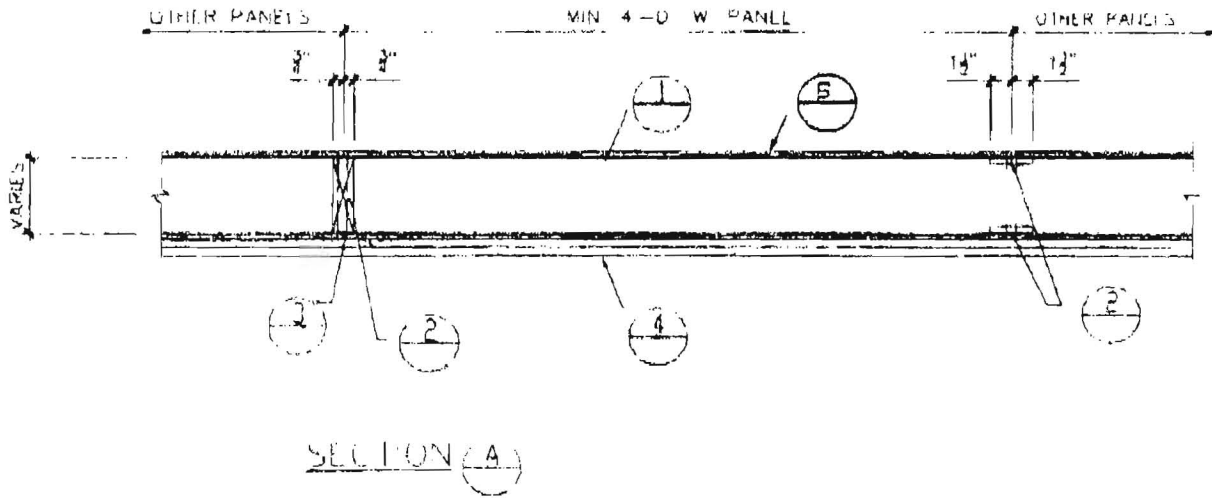
Footnotes for Axial Load Tables

Panels shall be made of two equal layers of APA or TECO rated OSB sheathing. The core shall be nominal 1.0 pcf density (min. 0.9 pcf) EPS (expanded polystyrene) foam adhered to the sheathing with glue and set under pressure. In panels with spline studs, the skins shall be nailed to the spline studs with 8d nails @ 6 inches o.c. When the tables indicate that no spline studs are required for structural capacity, it is permitted to join adjacent panels using 3 inch (76.2 mm) wide, 5/8 inch (15.9 mm) thick plywood or OSB surface splines under both exterior and interior skins instead of spline studs. The surface splines shall be installed using a gap filling expanding foam sealant and 1-1/4 inch (25.4 mm) long, No. 6 screws at 6 inches (152 mm) on center on each side of the joint.

1. Values shown are allowable heights due to dead load plus live load.
2. Allowable loads are based on axial loads being applied over the entire panel width.
3. A deflection criterion of H/240 is used.
4. Some allowable spans are not based on deflections, therefore, no multipliers for other deflection criteria shall be allowed.
5. All values are for normal duration loads. No increases for other durations are allowed.
6. Maximum spans are limited to the maximum panel size, 28 feet
7. All values listed are for single-span panels with supports at the top and bottom.
8. Where no allowable height is shown, panel does not meet criteria to carry applied axial load.
9. For panels with splines at 24" o.c. use the allowable heights of panels with double splines.
10. For eight foot wide panels with splines at 8'-0" o.c., use table values for sandwich panels without splines; for panels with splines 4'-0" o.c., use tables for single splines.
11. All values are based on INSULSPAN - Axial Load Tables (A.1 - A.200), "INSULSPAN 1999", dated September 9, 1999.



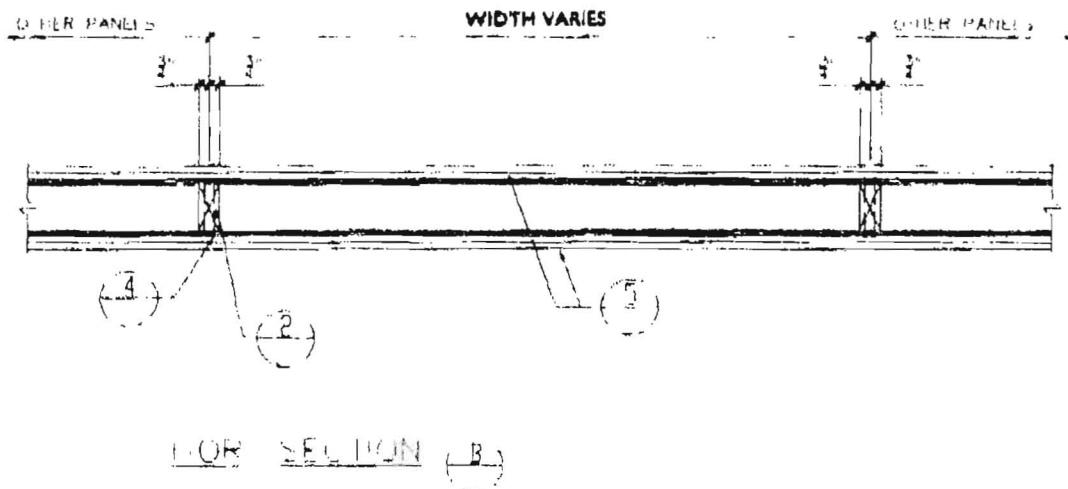
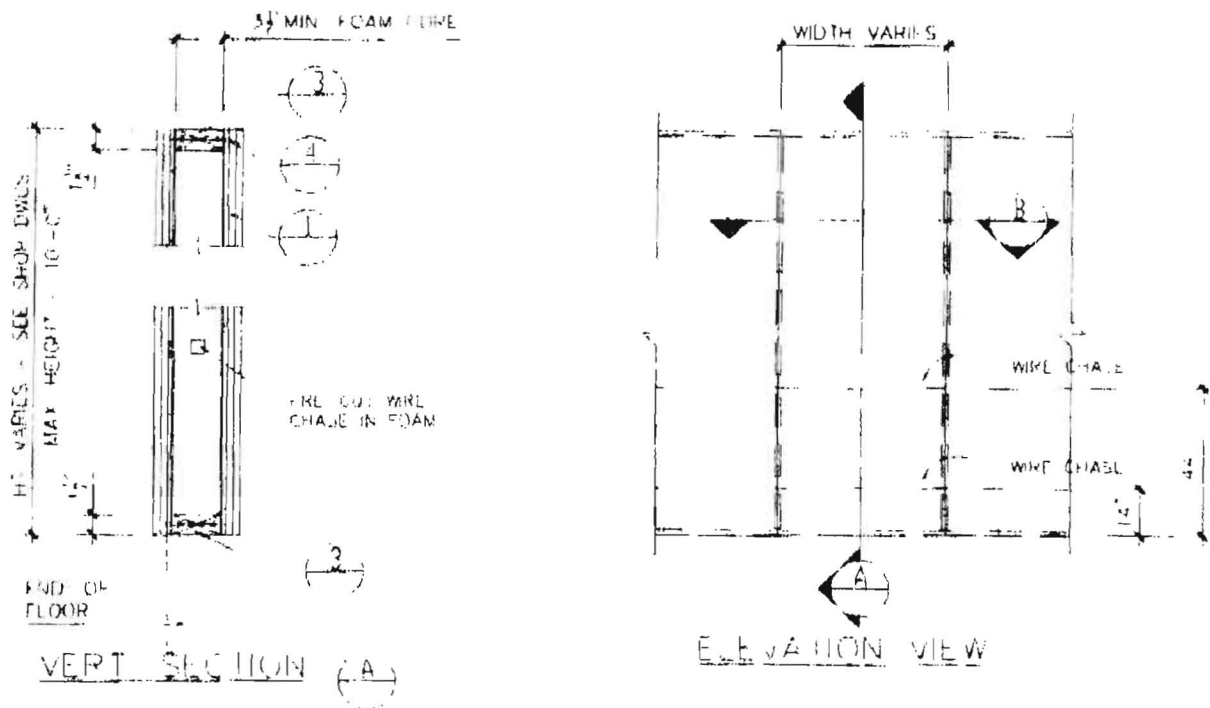
PLAN VIEW



SECTION (A)

NOTE: See footnotes on Page 12 for descriptions of numbered elements

FIGURE 2*
FLOOR/CEILING ASSEMBLY - ONE HOUR



NOTE: See footnotes on Page 12 for descriptions of numbered elements

FIGURE 3*
WALL ASSEMBLY - ONE HOUR (Limited Load Bearing)

*THESE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY. THEY ARE NOT INTENDED FOR USE AS CONSTRUCTION DOCUMENTS FOR THE PURPOSE OF DESIGN, FABRICATION OR ERECTION.

Footnotes for Figure 2 - Floor/Ceiling and Roof/Ceiling Assembly - One Hour

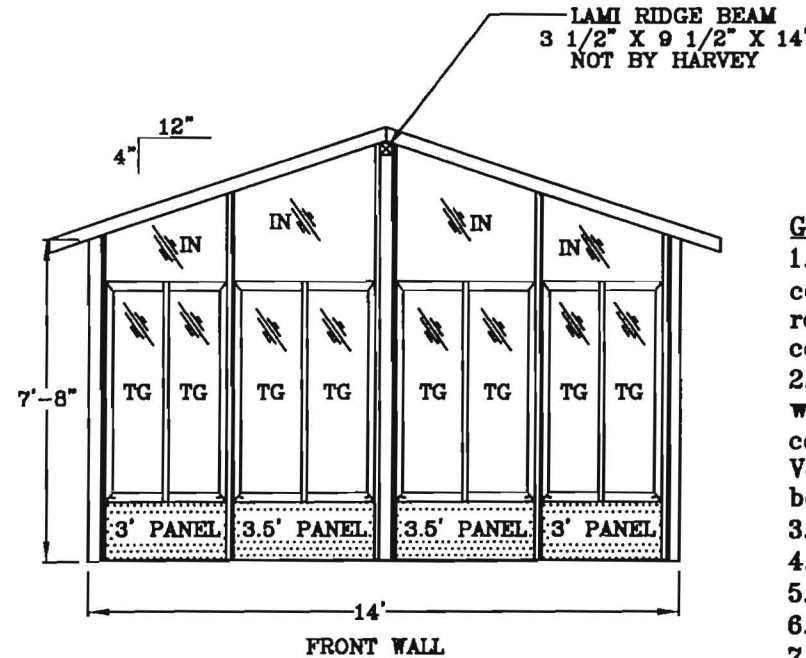
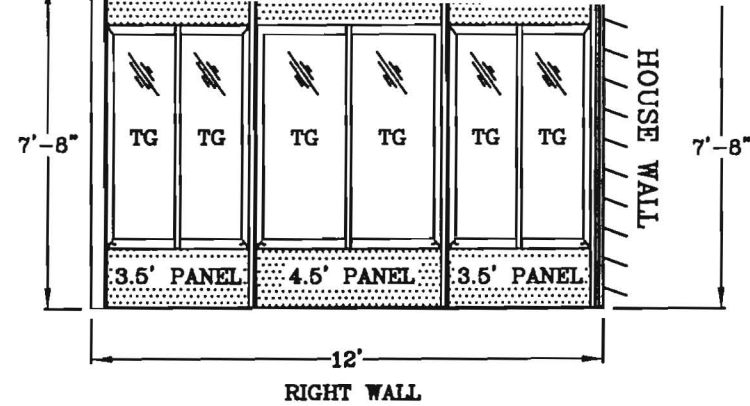
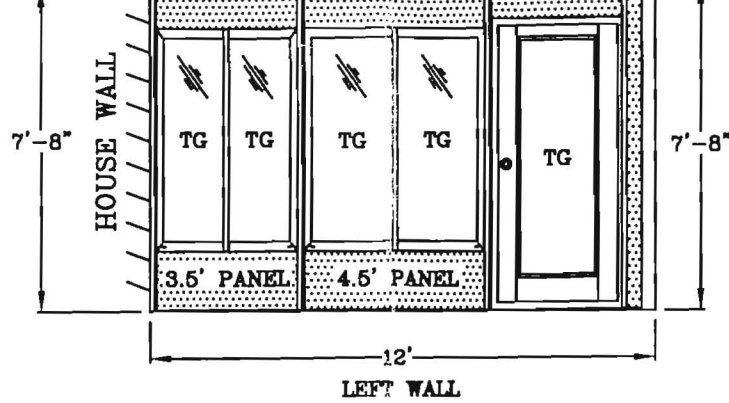
1. **Insulspan Panels** - 48 inches (1220 mm) wide (minimum), 5-1/2 inch (88.9 mm) thick (maximum) EPS core having 7/16 inch (11.1 mm) thick OSB skins. Panels having 7-1/4, 8-1/4 and 11-1/4 inch thick cores are also permitted in roof/ceiling assemblies.
2. **Splines**- 2x wood spline studs. When the tables indicate that no spline studs are required for structural capacity, 3 inch (76.2 mm) wide, 5/8 inch (15.9 mm) thick OSB surface splines are permitted under both skins instead of spline studs.
3. **Fasteners** - OSB skins are fastened to spline studs using 8d nails @ 6 inches (152 mm) on center. When using OSB surface splines, the surface splines shall be installed using a gap filling expanding foam sealant and 1 inch (25.4 mm) long, No. 6 drywall screws at 6 inches (152 mm) on center on each side of the joint.
4. **Gypsum Wallboard** -a ceiling surface consisting of two layers of 5/8 inch (15.9 mm) thick Type X gypsum wallboard. The gypsum panels are attached to the Insulspan panels using 2 inch (51 mm) long, A-point, bugle head drywall screws at 6 inches (152 mm) on center along the sheet perimeters and on a 12 inch (304 mm) x 12 inch (304 mm) spacing in the field of the sheets. All seams shall be staggered. Exposed seams shall be treated with an application of tape, followed by three coats of US Gypsum Corporation Durabond 90 joint compound.
5. **Roof Covering** - (on roof/ceiling assemblies only) - a code complying roof covering.

Footnotes for Figure 3 - Wall Assembly - One Hour (Limited Load Bearing)

1. **Insulspan Panels** - 3-1/2 inch (88.9 mm) or 5-1/2 inch (140 mm) thick EPS core having 3/8 inch (9.52 mm) or 7/16 inch (11.1 mm) thick OSB skins. Structural load shall not exceed 27.4 % of allowable load nor 1250 lb/ft (18.2kN/m).
2. **Splines**- 2x wood studs @ 48 inches (1220 mm) on center.
3. **Top and Bottom Plates** - 2x wood top and bottom plates.
4. **Nails** - OSB skins are fastened with 6d common nails at 6 inches (152 mm) on center at panel edges (vertical splines) and at top and bottom plates.
5. **Gypsum Wallboard** -Two layers of 1/2 inch (12.7 mm) thick USG FireCode "C" installed on each side of the assembly. Installation of wallboard on the interior side only of exterior walls is permitted in jurisdictions using the 1999 *Standard Building Code* or the BOCA® *National Building Code* 1999 when such walls are located greater than 5 feet (1524 mm) from a property line or assumed property line.

The first layer of gypsum wallboard is installed horizontally over the Insulspan panels using a continuous 3/8 inch diameter bead of construction adhesive (Miracle DSA 20 drywall adhesive) at 24 inches (609 mm) on center across the width of the panels and 1 inch (25.4 mm) long No. 6 bugle head drywall screws at 8 inches (203 mm) on center along the perimeter and 12 inches (304 mm) on center at the two adhesive lines.

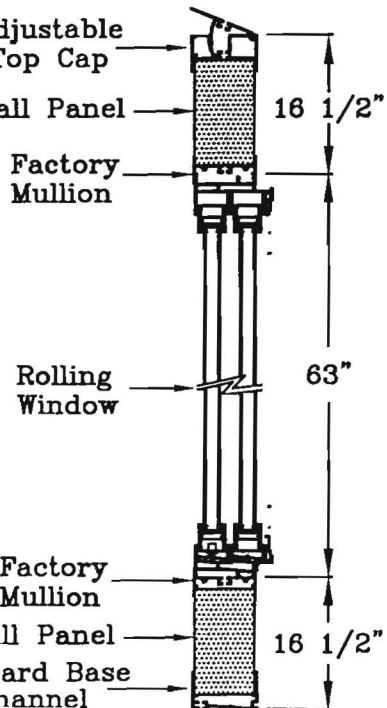
The second layer of gypsum wallboard is installed vertically in the same manner as the first layer using 1-5/8 inch (41.3 mm) long bugle head drywall screws.



GENERAL NOTES:

- 1.) This 3-season system has been drawn per contractor request. It is the contractor's responsibility to comply with all local building codes and to obtain building permits as required.
- 2.) Laminated ridge beam sized in accordance with Boise Versa-Lam roof load tables. It is contractor's responsibility to comply with Versa-Lam Specifications if selecting any ridge beam other than Versa-Lam.
- 3.) Window Style: Rolling
- 4.) Window Color: White
- 5.) Wall Panel Color: White
- 6.) Wall: 3 1/4" Insulated R-13
- 7.) Roof: 4" insulated White R-16
- 8.) Glazing Legend:

IN = Insulated DSB TG = Tempered
 LE = Low-E DSB TE = Tempered Low-E
 P = Solid Panel TA = Tempered Low-E/Arg
 LA = Low-E Argon DSB



HARVEY INDUSTRIES INC.

CLASSIC VINYL PATIO ROOM

DESCRIPTION: GABLE STYLE

ROOM SIZE: 12' X 14'

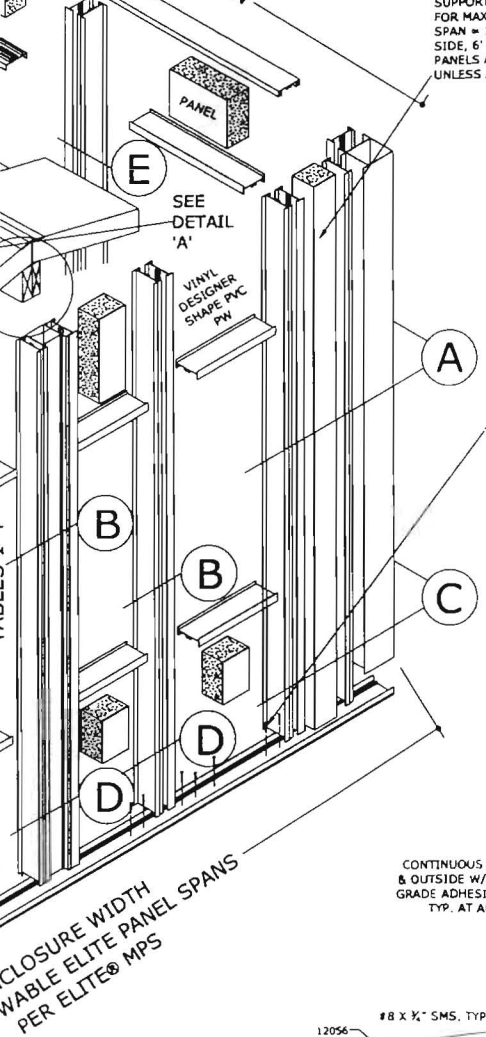
DEALER RELEASE SIGNATURE: _____ DATE: _____

W/ WOOD BEAM, SEE
DIMENSIONS WRITTEN
HERE VERIFIED &
DIMENSIONS FOR SIZE

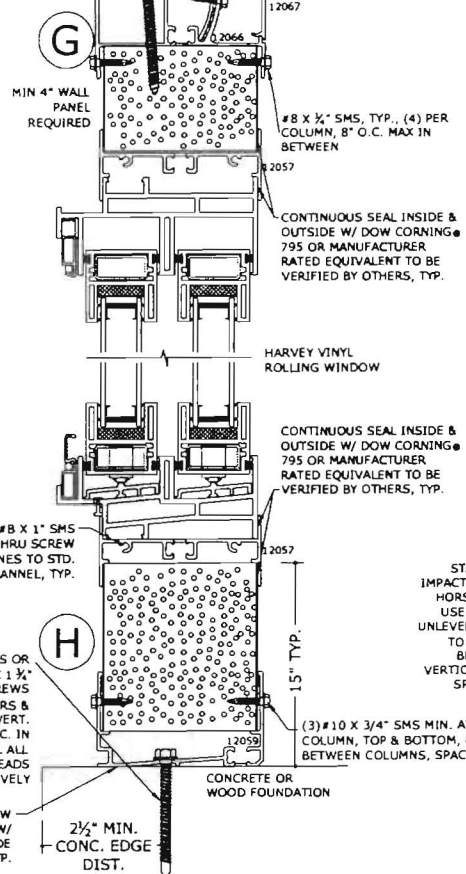
NOTCH OUT ELECTRICAL MULLION
TO BUILD A POCKET TO ACCEPT
LAMINATED WOOD BEAMS.
H-CHANNELS WILL RUN UP THE
SIDE OF THE WOOD BEAMS.

DETAIL 'A'

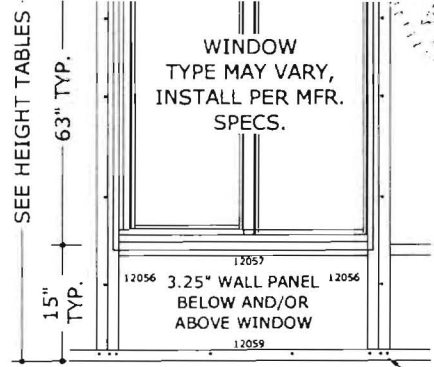
ENCLOSURE PROJECTION



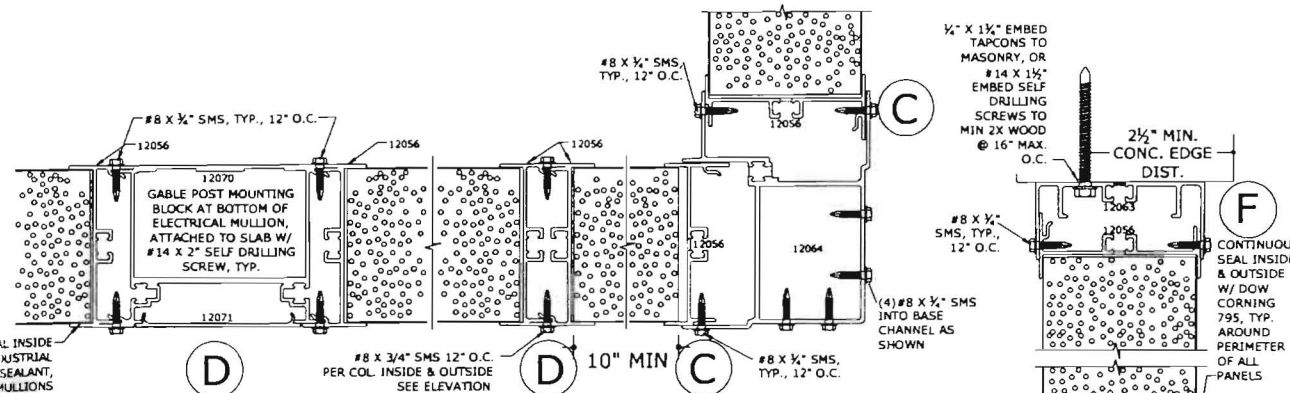
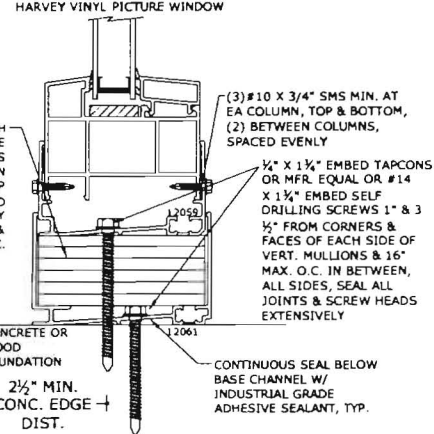
OPTION SHOWN TO ADD VINYL DESIGNER SHAPE VINYL
PW AT TOP SECTION. ATTACH WINDOW TO COLUMNS AT
JAMBS W/ #8 SMS, 2" FROM EA END, CONTINUOUSLY
SEAL W/ DOW CORNING 795 AROUND PERIMETER OF
WINDOW. REFER TO CURRENT TEST REPORT FOR
ADDITIONAL DETAILS ON WINDOW. IF GLASS ROOM
ONLY APPLICATION, MAX ROOF LIVE LOAD = 40 PSF,
MAX ROOF SPAN = 15', MAX COL WIDTH = 3.5' ON
SUPPORTING SIDE, 6' ON NON-SUPPORTING SIDE, OR
FOR MAX ROOF LIVE LOAD UP TO 60 PSF, MAX ROOF
SPAN = 15', MAX COL WIDTH = 3.5' ON SUPPORTING
SIDE, 6' ON NON-SUPPORTING SIDE ADD 6" COMPOSITE
PANELS ABOVE WINDOWS TO CARRY ROOF LOAD,
UNLESS ADD'L ENGINEERING IS PROVIDED.



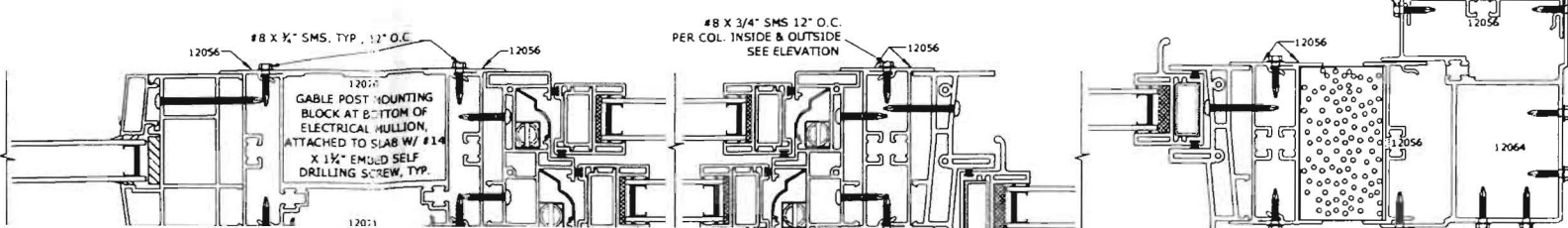
SECTION THRU WALL SYSTEM



TYP. ELEVATION



PLAN VIEW SECTION BELOW WINDOW



FRANK L. BENNARDO, P.E., INC.
CONSULTING ENGINEERS
4441 NORTH DIXIE HIGHWAY
BOCA RATON, FL 33431
(561) 391-2888 FAX: (561) 391-2867
WWW.FLBENGINEERING.COM
CERTIFICATE OF AUTHORIZATION: #9885

HARVEY INDUSTRIES, INC.
1400 MAIN STREET
WALTHAM, MA 02451
(781) 899-2500

GABLE STYLE MASTER PLAN SHEET

REMARKS	DATE
INIT ISSUE	04/14/05
DRWN	KLP
CHKD	FLB

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05-HAI-0001-b

PAGE SCALE: -

DESCRIPTION:

100 B & LESS	17	11' - 1"	10' - 3"	9' - 5"	9' - 8"	8' - 7"	8' - 9"	8' - 5"	8' - 2"
100 C, 110 B	21	10' - 4"	9' - 7"	9' - 0"	8' - 7"	8' - 2"	7' - 10"	7' - 7"	7' - 2"
110 C, 120 B	25	9' - 9"	9' - 0"	8' - 3"	8' - 1"	7' - 9"	7' - 5"	7' - 2"	7' - 2"
120 C, 130 B	30	9' - 2"	8' - 6"	8' - 0"	7' - 7"	7' - 3"	7' - 0"	6' - 9"	6' - 9"
130 C, 140 B	35	8' - 8"	8' - 1"	7' - 7"	7' - 3"	6' - 11"	6' - 8"	6' - 5"	6' - 5"
140C, 150B	41	8' - 3"	7' - 8"	7' - 2"	6' - 10"	6' - 6"	6' - 3"	6' - 1"	6' - 1"

'LOAD' REPRESENTS DESIGN WIND PRESSURE FORCE ON COLUMN, NOT ROOF LIVE LOAD

100 B & LESS	17	10' - 10"	10' - 10"	10' - 10"	10' - 10"	10' - 10"	10' - 10"	10' - 10"	10' - 10"
100 C, 110 B	21	10' - 1"	9' - 5"	8' - 10"	8' - 5"	8' - 0"	7' - 9"	7' - 6"	7' - 6"
110 C, 120 B	25	9' - 7"	8' - 10"	8' - 4"	7' - 11"	7' - 7"	7' - 3"	7' - 3"	7' - 3"
120 C, 130 B	30	9' - 0"	8' - 4"	7' - 10"	7' - 5"	7' - 1"	6' - 10"	6' - 7"	6' - 7"
130 C, 140 B	35	8' - 6"	7' - 11"	7' - 5"	7' - 1"	6' - 9"	6' - 6"	6' - 3"	6' - 3"
140C, 150B	41	8' - 1"	7' - 6"	7' - 1"	6' - 8"	6' - 5"	6' - 2"	5' - 11"	5' - 11"

TABLE 3: ELECTRICAL MULLION HEIGHT TABLE

15" MINIMUM SOLID PANEL HEIGHT

WIND VELOCITY & EXPOSURE	LOAD (PSF)	AVERAGE CENTER TO CENTER COLUMN SPACING >							
		2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
100 B & LESS	17	15' - 3"	14' - 2"	13' - 4"	12' - 8"	12' - 1"	11' - 8"	11' - 3"	
100 C, 110 B	21	14' - 3"	13' - 3"	12' - 5"	11' - 10"	11' - 3"	10' - 10"	10' - 6"	
110 C, 120 B	25	13' - 5"	12' - 6"	11' - 9"	11' - 2"	10' - 8"	10' - 3"	9' - 11"	
120 C, 130 B	30	12' - 8"	11' - 9"	11' - 0"	10' - 6"	10' - 0"	9' - 8"	9' - 4"	
130 C, 140 B	35	12' - 0"	11' - 2"	10' - 6"	9' - 11"	9' - 6"	9' - 2"	8' - 10"	
140C, 150B	41	11' - 5"	10' - 7"	9' - 11"	9' - 5"	9' - 0"	8' - 8"	8' - 5"	

'LOAD' REPRESENTS DESIGN WIND PRESSURE FORCE ON COLUMN, NOT ROOF LIVE LOAD

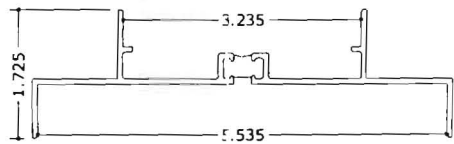
TABLE 4: ELECTRICAL MULLION HEIGHT TABLE

GLASS ROOM ONLY

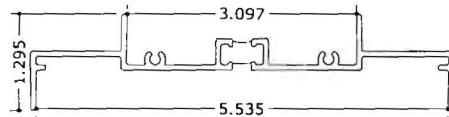
WIND VELOCITY & EXPOSURE	LOAD (PSF)	AVERAGE CENTER TO CENTER COLUMN SPACING >							
		2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
100 B & LESS	17	15' - 0"	13' - 11"	13' - 1"	12' - 5"	11' - 11"	11' - 5"	11' - 0"	
100 C, 110 B	21	13' - 11"	12' - 11"	12' - 2"	11' - 7"	11' - 1"	10' - 8"	10' - 3"	
110 C, 120 B	25	13' - 2"	12' - 3"	11' - 6"	10' - 11"	10' - 5"	10' - 0"	9' - 8"	
120 C, 130 B	30	12' - 5"	11' - 6"	10' - 10"	10' - 3"	9' - 10"	9' - 5"	9' - 1"	
130 C, 140 B	35	11' - 9"	10' - 11"	10' - 3"	9' - 9"	9' - 4"	9' - 0"	8' - 8"	
140C, 150B	41	11' - 2"	10' - 4"	9' - 9"	9' - 3"	8' - 10"	8' - 6"	8' - 3"	

NOTES:

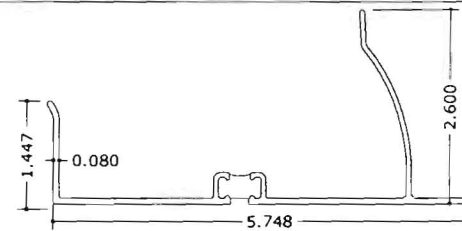
APPLICATIONS BUT EACH COLUMN MUST MEET TABLE HEIGHT CRITERIA.
 ANALYSIS OF PARTS AS SHOWN. DESIGN DEFLECTION = L/180. ALLOWABLE STRESS FOR 6063-T6 OR 6060-T61 ALUMINUM = 15,000PSI.
 MINIMUM HEIGHT IN SOLID PANELS EXISTS ABOVE AND/OR BELOW THE GLAZING. USE TABLES 2 & 4 FOR GLASS ROOMS ONLY, W/ NO SOLID PANELS.
 VELOCITY AND WIND LOADS ARE NOT CONSIDERED TO ACT SIMULTANEOUSLY DUE TO UPLIFT FACTOR AT MAXIMUM WIND VELOCITY.
 SPECIFIC ANALYSIS OF ACTUAL FRAMING CONDITIONS. SEE A LICENSED ENGINEER FOR FURTHER ANALYSIS AS NEEDED.
 PANEL WALL HEIGHTS. REFER TO ADDITIONAL ENGINEERING BY OTHERS FOR SOLID PANEL SPANS BEYOND THESE SPANS.
 AS 1/2 THE DISTANCE BETWEEN COLUMNS TO THE LEFT, PLUS 1/2 THE DISTANCE BETWEEN COLUMNS TO THE RIGHT



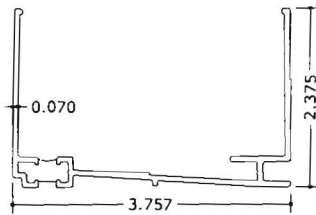
PATIO DOOR HEAD REDUCER - 12072



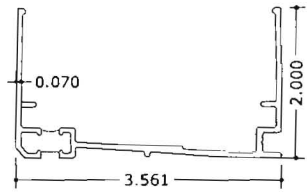
PATIO DOOR JAMB REDUCER - 12073



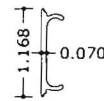
4" MOUNTING CHANNEL - 11737



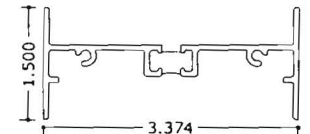
ADJUSTABLE BASE CHANNEL - 12061



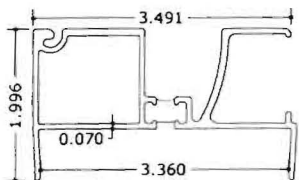
STANDARD BASE CHANNEL - 12059



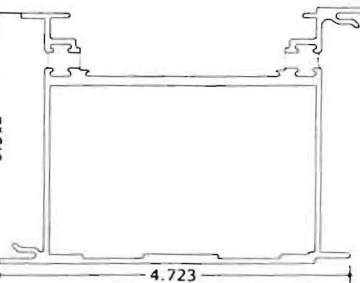
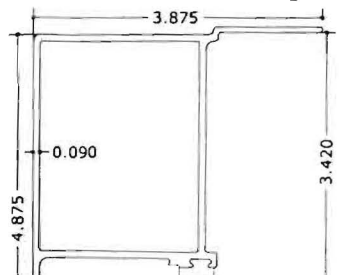
ELECTRICAL CHASE COVER - 12067



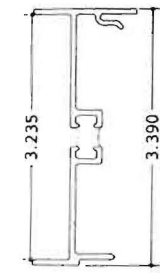
HORIZONTAL MULLION - 12057



ELECTRICAL WALL CAP - 12066



ELECTRICAL BOX MULLION - 12070



STANDARD H CHANNEL - 12056

HARVEY INDUSTRIES, INC.

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GABLE STYLE MASTER PLAN SHEET

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 CERTIFICATE OF AUTHORIZATION: #98865-2117

REMARKS	INIT ISSUE	DRWN	CHKD	DATE	DATE	
					FLB	DATE
		KLP		04/14/05		

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PAGE SCALE:
 DESCRIPTION:

	1lb	2lb	1lb	2lb
33' 10"	37' 6"	37' 1"	38' 5"	
23' 11"	26' 11"	26' 6"	27' 11"	
19' 6"	22' 0"	21' 8"	22' 10"	
16' 11"	19' 0"	18' 9"	19' 9"	
15' 1"	17' 0"	16' 9"	17' 8"	
13' 9"	15' 6"	15' 3"	16' 1"	
11' 11"	13' 5"	13' 3"	13' 11"	

11/10/03

	8" .024 1lb	8" .024 2lb	8" .032 1lb	8" .032 2lb
30' 3"	32' 9"	32' 6"	33' 7"	
23' 11"	26' 0"	25' 9"	26' 8"	
19' 6"	22' 0"	21' 8"	22' 10"	
16' 11"	19' 0"	18' 10"	19' 9"	
15' 1"	17' 0"	16' 10"	17' 8"	
13' 9"	15' 6"	15' 4"	16' 1"	
11' 11"	13' 5"	13' 3"	13' 11"	

LL	WIND SPEED & EXPOSURE	1lb	2lb	1lb	2lb	1lb	2lb	1lb	2lb	1lb	2lb	1lb	2lb	1lb	2lb	1lb	2lb
10	100B	16' 3"	16' 2"	17' 5"	17' 5"	19' 5"	18' 11"	19' 7"	19' 5"	24' 9"	26' 4"	25' 8"	26' 3"	28' 1"	30' 5"	30' 2"	31' 2"
20	110B, C, 120B	12' 11"	12' 10"	13' 10"	13' 10"	15' 5"	15' 0"	15' 7"	15' 5"	19' 8"	20' 11"	20' 4"	20' 10"	22' 3"	24' 1"	23' 11"	24' 9"
30	140B, 140C	11' 3"	11' 3"	12' 1"	12' 1"	13' 5"	13' 1"	13' 7"	13' 5"	17' 2"	18' 3"	17' 9"	18' 2"	19' 5"	21' 1"	20' 11"	21' 7"
40	150B, 150C	10' 3"	10' 2"	11' 0"	11' 0"	12' 2"	11' 11"	12' 4"	12' 3"	15' 7"	16' 7"	16' 2"	16' 6"	16' 11"	19' 0"	18' 10"	19' 7"
50	160B, 160C	9' 6"	9' 5"	10' 2"	10' 2"	11' 4"	11' 0"	11' 5"	11' 4"	14' 5"	15' 5"	14' 7"	15' 1"	15' 1"	17' 0"	16' 10"	17' 8"
60	175B, 175C	8' 11"	8' 11"	9' 7"	9' 7"	10' 8"	10' 4"	10' 9"	10' 8"	13' 2"	14' 6"	13' 4"	13' 9"	13' 9"	15' 6"	15' 4"	16' 1"
80	180B, 180C	8' 1"	8' 1"	8' 8"	8' 8"	9' 8"	9' 4"	9' 6"	9' 4"	11' 5"	12' 6"	11' 6"	11' 11"	11' 11"	13' 5"	13' 4"	13' 11"

DEFLECTION = L / 180

11/10/03

LL	WIND SPEED & EXPOSURE	3" .024 1lb	3" .024 2lb	3" .032 1lb	3" .032 2lb	4" .024 1lb	4" .024 2lb	4" .032 1lb	4" .032 2lb	6" .024 1lb	6" .024 2lb	6" .032 1lb	6" .032 2lb	8" .024 1lb	8" .024 2lb	8" .032 1lb	8" .032 2lb
10	100B	15' 3"	15' 3"	16' 5"	16' 5"	18' 3"	17' 9"	18' 5"	18' 3"	23' 3"	24' 10"	24' 2"	24' 8"	26' 5"	28' 7"	28' 5"	29' 4"
20	110B, C, 120B	12' 1"	12' 1"	13' 0"	13' 0"	14' 6"	14' 1"	14' 7"	14' 6"	18' 6"	19' 8"	19' 2"	19' 7"	20' 11"	22' 8"	22' 7"	23' 3"
30	140B, 140C	10' 7"	10' 7"	11' 4"	11' 4"	12' 8"	12' 4"	12' 9"	12' 8"	16' 2"	17' 2"	16' 9"	17' 1"	18' 4"	19' 10"	19' 8"	20' 4"
40	150B, 150C	9' 7"	9' 7"	10' 4"	10' 4"	11' 6"	11' 2"	11' 7"	11' 6"	14' 8"	15' 7"	15' 3"	15' 7"	16' 7"	18' 0"	17' 11"	18' 5"
50	160B, 160C	8' 11"	8' 11"	9' 7"	9' 7"	10' 8"	10' 4"	10' 9"	10' 8"	13' 7"	14' 6"	14' 1"	14' 5"	15' 1"	16' 9"	16' 7"	17' 1"
60	175B, 175C	8' 5"	8' 4"	9' 0"	9' 0"	10' 0"	9' 9"	10' 1"	10' 0"	12' 9"	13' 8"	13' 3"	13' 7"	13' 9"	15' 6"	15' 5"	16' 1"
80	180B, 180C	7' 7"	7' 7"	8' 2"	8' 2"	9' 1"	8' 10"	9' 2"	9' 1"	11' 5"	12' 5"	11' 6"	11' 11"	11' 11"	13' 5"	13' 4"	13' 11"

7-98 MWFRS, FIG. 6-4, Kd=0.85, deg, AVERAGE OF MWFRS ZONES

4' PANELS OBTAINED FROM FIELD TEST REPORTS BY OTHERS. USED BY EXTRAPOLATION OF

DATA & EXTRAPOLATION FROM TESTING OR MAXIMUM MOMENT 23-H154 (F'c=17ksi ULT, 11ksi YIELD) FOR LIVE LOAD VALUES ABOVE

OTHER DESIGN CONSIDERATIONS:

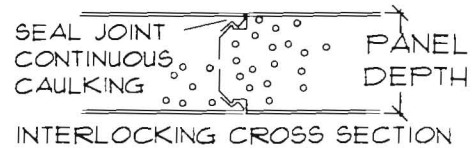
FRONT OVERHANG O/H MAY BE UP TO 3' WITH VALUES ABOVE (ADD TABLE LENGTH + WALL WIDTH + O/H FOR TOTAL PANEL LENGTH)
MAX. UNSUPPORTED SIDE OVERHANG IS 25% OF PANEL WIDTH (12' FOR 4' PANEL WIDTH)

ROOF PITCH TO BE 1/4' PER FOOT MIN, 3' PER FOOT MAX.

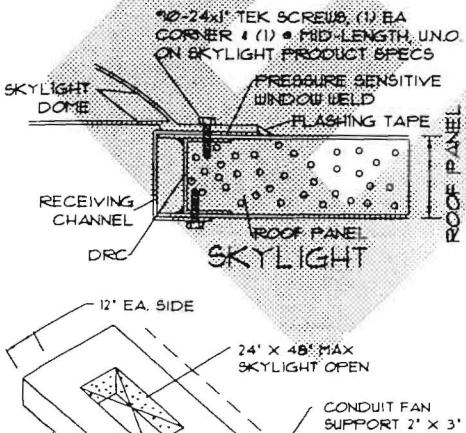
SPECIAL 'SITE SPECIFIC' SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, DEFLECTIONS, AND SPANS CONTAINED HEREIN. LINEAR INTERPOLATION OF THE TABLE IS NOT PERMITTED. CONTACT THIS ENGINEER FOR ALTERNATE SPAN CALCULATIONS.

GENERAL NOTES

- 1) THIS DETAIL ONLY VALID WHEN SIGNED AND SEALED BY FRANK L. BENNARDO, P.E. THIS SHEET SHALL CONTAIN A RED 'ELITE' STAMP OVER THE PLAN FACE OR IS NOT VALID FOR USE.
- 2) ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- 3) THIS SPECIFICATION CONFORMS TO THE REQUIREMENTS OF THE 2000 INTERNATIONAL BUILDING CODE, 1996 BOCA, 1997 UBC, 1997 SBC, AND NER 501. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL GOVERNING BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.
- 4) THE CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA. THIS ADDITIONAL ROOF LOAD CRITERIA SHALL BE PROPERLY ANALYZED BY A PROFESSIONAL ENGINEER.
- 5) COMPOSITE ROOF AND WALL MEMBERS SHALL BE CONSTRUCTED USING TYPE 3003-H154 ALUMINUM FACINGS, 15PCF ASTM C-518 CARPENTER BRAND EPS. ADHERE TO ALUMINUM FACINGS WITH ASHLAND CHEMICAL 2020 ISO GRIP. FABRICATION TO BE BY ELITE PANEL PRODUCTS ONLY IN ACCORDANCE WITH APPROVED FABRICATION METHODS.
- 6) ENGINEER SEAL AFFIXED HERETO VALIDATES DESIGN OF SPAN CHART VALUES AS SHOWN ONLY. USE OF THIS SPECIFICATION BY ELITE, et al. INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS DETAIL.
- 7) EXCEPT AS EXPRESSLY PROVIDED IN THIS DETAIL, NO CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.



ROOF PANEL ACCESSORIES



36" MAX, 25% OF PANEL WIDTH @ SIDES

ELITE EDITION

FRANK L. BENNARDO, P.E.
CONSULTING ENGINEER

4441 NORTH DIXIE HIGHWAY
BOCA RATON, FL 33431
(561) 391-2888 FAX: (561) 391-2862
WWW.FLBENGINEERING.COM
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ELITE ALUMINUM CORPORATION
ALUMINUM ROOF PANEL MASTER PLAN SHEET

1801 NW 64 ST
FORT LAUDERDALE, FL 33309
(800) 421-0682 FAX: (954) 491-1433

Building Innovation
ELITE
Panel Products

REVISIONS	
DESCRIPTION	DATE



CITY OF PORTLAND, MAINE
Department of Building Inspections

Aug 28 2019

Received from Yelp Brown

Location of Work 32 Panoramic View

Cost of Construction \$ 12,000

Permit Fee \$ ~~76.00~~ 199.00

Building (IL) ___ Plumbing (I5) ___ Electrical (I2) ___ Site Plan (U2) ___

Other _____

CBL: Yelp Brown

Check #: 096

Total Collected \$ ~~76.00~~ 199.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

May 6