GENERAL NOTES AND SPECIFICATIONS:

1) THE FOAM CORE ROOF PANELS DEPICTED WITHIN THIS DRAWING ARE INTENDED FOR USE ON RESIDENTIAL PATIOS AS REGULATED BY THE 2007 CALIFORNIA BUILDING CODE PROVISIONS THAT ARE LOCALLY ENFORCEABLE AND UNDER THE JURISDICTION OF CITY AND COUNTY BUILDING OFFICIALS. PROVISIONS RELATED SPECIFICALLY TO HOSPITALS AND PUBLIC SCHOOLS IN CALIFORNIA ARE NOT A PART OF THE SCOPE. IN ADDITION, USE ON MOBILE HOME AWNINGS AS REGULATED BY TITLE 25 OF THE CALIFORNIA ADMINISTRATIVE CODE IS PERMITTED. 1.00 2.00

2) MATERIALS:

   a) INTERIOR FACING MATERIAL SHALL BE ALUMINUM CONFORMING TO THE REQUIREMENTS FOR 3105-H254 ALLOY AND TEMPER. THICKNESS OF SKIN SHALL BE AS SHOWN IN THE APPROPRIATE ALLOWABLE SPAN TABLE. THE UNEXPOSED SIDE OF THE INTERIOR METAL SKIN SHALL HAVE A BONDING MATERIAL COMPATIBLE WITH THE ADHESIVE DEFINED IN 2d. PAINT ON OUTSIDE SURFACE OF METAL SKIN SHALL BE POLYESTER AS SPECIFIED IN THE QUALITY CONTROL SYSTEMS MANUAL.

   b) EXTERIOR FACING MATERIAL SHALL BE ALUMINUM CONFORMING TO THE REQUIREMENTS FOR 3105-H254 ALLOY AND TEMPER. THICKNESS OF SKIN SHALL BE AS SHOWN IN THE APPROPRIATE ALLOWABLE SPAN TABLE. THE UNEXPOSED SIDE OF THE EXTERIOR METAL SKIN SHALL HAVE A BONDING MATERIAL COMPATIBLE WITH THE ADHESIVE DEFINED IN 2d. PAINT ON OUTSIDE SURFACE OF METAL SKIN SHALL BE POLYESTER AS SPECIFIED IN THE QUALITY CONTROL SYSTEMS MANUAL.

   c) THE FOAM CORE SHALL BE AS DEFINED BELOW AND HAVING A NOMINAL DENSITY AS SHOWN IN THE ALLOWABLE SPAN TABLE:

      1) PREFORMED EXPANDED POLYSTYRENE BOARD (EPS), AS MANUFACTURED BY ONE OF SEVERAL RECOGNIZED MANUFACTURERS SPECIFIED IN THE QUALITY SYSTEMS MANUAL. THE FOAM SHALL MEET THE REQUIREMENTS FOR CLASS I MATERIAL PER TABLE 8-A OF THE 1997 UBC. THE FOAM PLASTIC IS CLASSIFIED AS TYPE IX FOAM IN ACCORDANCE WITH ASTM C578.

   d) THE COMPONENTS ARE BONDED TOGETHER BY AN ADHESIVE DESIGNATED AS EITHER MORAD M-640 SERIES, A PROPRIETARY ADHESIVE MANUFACTURED BY ROHM AND HAAS COMPANY, AND RECOGNIZED UNDER ICC ES ESR-1023. THE ADHESIVE IS A CLASS 2, TYPE II, STRUCTURAL ADHESIVE, UNDER ICC ES AC05.

3) THE MANUFACTURER OF ANY COMPONENT CITED IN ITEM 2 ABOVE SHALL PROVIDE CERTIFICATION WITH EACH SHIPMENT THAT ALL COMPONENTS PROVIDED WITHIN THE SHIPMENT CONFORM TO THE APPLICABLE SPECIFICATION (S) AND/ OR DEFINITION (S) OUTLINED ABOVE.

4) THE MAXIMUM ALLOWABLE SPAN, FOR A GIVEN APPLIED LOAD SHALL NOT EXCEED THE SPAN PROVIDED IN THE ALLOWABLE SPAN TABLE FOR SAID LOAD. EXTRAPOLATION OF THE INFORMATION PROVIDED IN THE ALLOWABLE SPAN TABLE IS NOT PERMITTED.

5) PANELS SHALL BE CONTINUOUS IN THE DIRECTION OF SPAN WITH NO TRANSVERSE JOINTS.

6) THE SUPPORT AND STRUCTURAL ATTACHMENT OF THE SUBJECT PANELS SHALL BE SUBSTANTIATED BY EITHER APPROVED EVALUATION REPORT PLANS OR STRUCTURAL PLANS APPROVED BY THE GOVERNING JURISDICTION. THE GOVERNING JURISDICTION SHALL CONFIRM THAT SAID PLANS ARE INTENDED FOR USE WITH THE DESIRED PANEL LOADS AND SPANS FOR EACH SPECIFIC PROJECT.

7) ALL PANEL EDGES SHALL BE SHIELDED IN ALUMINUM SECTIONS. ALL INTERFACES BETWEEN THE ALUMINUM SECTIONS AND PANEL SHALL BE CAULKED WITH APPROPRIATE SEALANT.

8) METAL PANEL FASTENERS SHALL BE STAINLESS STEEL OR ALUMINIZED, HOT-DIP GALVANIZED OR ELECTROGALVANIZED STEEL.

9) AN IDENTIFICATION DECAL WITH DEPARTMENT OF HOUSING INSIGNIA AND MANUFACTURER'S IDENTIFICATION NUMBER SHALL BE LOCATED AT ONE END OF EACH PANEL.

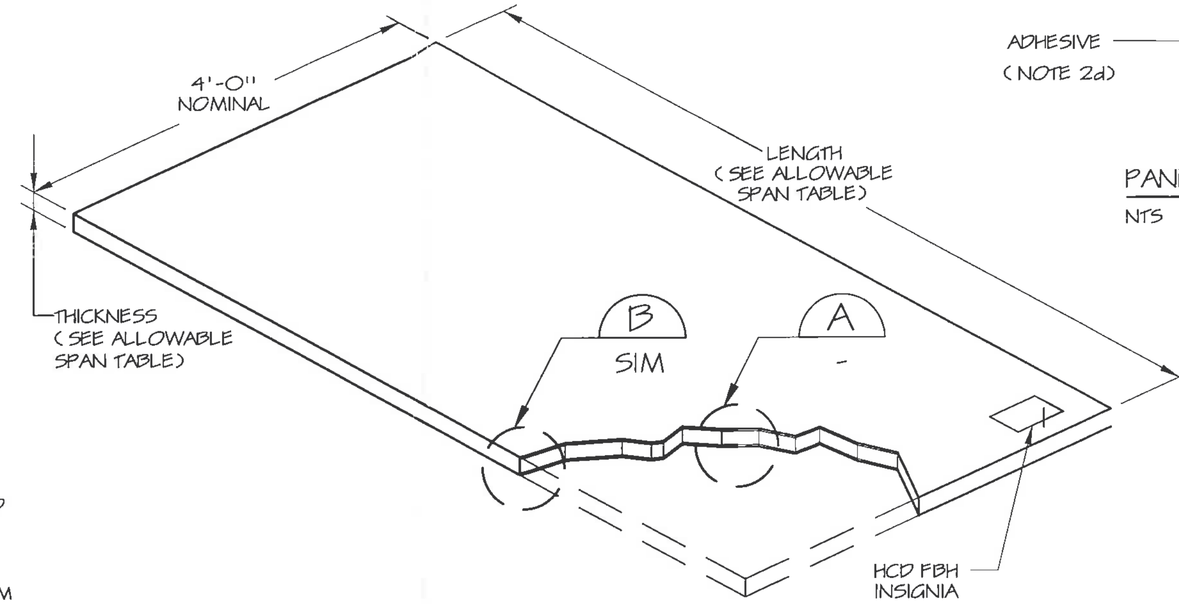
10) FASTENERS SHALL BE #10 SELF-TAPPING SMS, 12 TPI AND 1 1/ 2" O.D., SEAL WASHER WITH NEOPRENE INSERT. THE FASTENER LENGTH WILL BE 1" LONGER THAN THE PANEL WIDTH. ALLOY AND MINIMUM THICKNESS OF HEADER SHALL BE 6063-T5 AND 0.055 INCHES RESPECTIVELY.

11) STRUCTURES INCLUDED WITHIN THIS PACKAGE SHALL NOT BE ATTACHED TO "SINGLE COAT" STUCCO SYSTEMS.

12) SNOW LOADS PRESENTED WITHIN THESE PLANS ARE "EQUIVALENT" UNIFORM. SNOW LOADS CONSIDERATION SHALL BE GIVEN TO SITE SPECIFIC CONDITIONS INCLUDING BUT NOT LIMITED TO DRIFTING AND SLIDING SNOW.

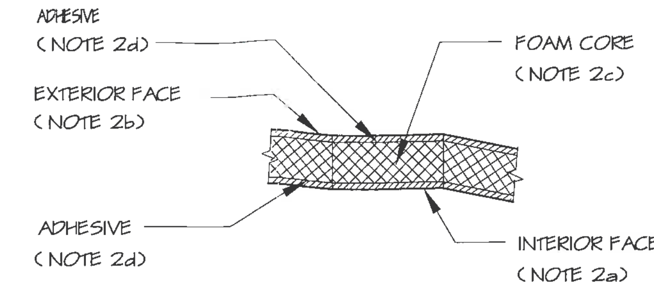
13) PLANS ARE CONSIDERED NULL AND VOID IF THEY DO NOT CONTAIN ORIGINAL SEAL AND SIGNATURE (IN BLUE INK) BY THE ENGINEER OF RECORD (EOR).

14) THE PANELS HAVE NOT BEEN EVALUATED FOR USE WHERE THEY MAY BE SUBJECTED TO MAINTENANCE LOADS, AS DEFINE IN THE CODE. 1.00



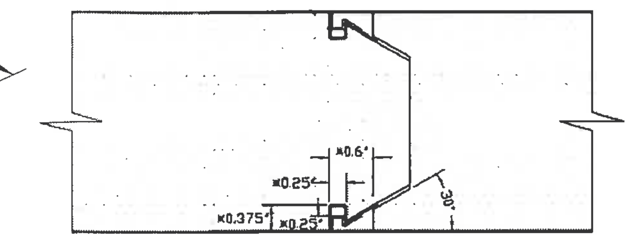
TYPICAL ROOF PANEL

NTS



PANEL INTERIOR DETAIL A

NTS



PANEL JOINT DETAIL B

NTS

MANUFACTURING FACILITY:
STRUCTALL BUILDING SYSTEMS, INC
350 BURBANK ROAD
OLDSMAR, FLORIDA 34677
PHONE: (813) 855-2627

APPROVED
by C.M.J. Engineering, Inc., a Department of Housing and Community Development approved third party design approval agency for FACTORY BUILT HOUSING

These plans and/or documents have reviewed according to the requirements found in the California Code of Regulations Title 25, Chapter 3, Subchapter 1. The mfg/applicant is solely responsible for compliance with all applicable laws and regulations. Plan reviews by C.M.J. Engineering, Inc. are not a comprehensive analysis of the design and are not provided with any expressed or implied warranties.

DATE APPROVED JUL 30 2010

Plan Approval No. CMJ- 585 -FBH- 1

EXPIRES JUL 30 2013 MODEL LRP 2410

APPROVAL NOT APPLICABLE TO FOUNDATIONS

TJC AND ASSOCIATES, INC.

JUL 21 2010

DATE SIGNED

REGISTERED PROFESSIONAL ENGINEER TERENCE J. CAVANAUGH S 3107 EXP. DEC. 31, 2011 STRUCTURAL STATE OF CALIFORNIA

WET SIGNED WITH BLUE INK

WET SIGNED DOCUMENT HAS EMBOSSED CORPORATE SEAL

CA STD PLAN - LAMINATED ROOF PANEL

0.024-1.0pcf-0.024

SHEET NO. CA-LRP 2410 SHEET 1 OF 2

DESIGNED BY:	TJC
DRAWN BY:	ADM
CHECKED BY:	RWC
SCALE:	AS SHOWN
DATE:	JUNE 2007

THIS BAR SCALES EXACTLY ONE HALF INCH AT FULL SCALE

STRUCTALL BUILDING SYSTEMS
350 BURBANK ROAD OLDSMAR, FLORIDA 34677 PHONE: (813) 855-2627

REV.	DATE	BY	COMMENT
2.00	7/10	TJC	MINOR EDITS
1.00	2/08	TJC	MINOR EDITS
0.00	06/07	TJC	INITIAL ISSUE

VISIT WWW.TJCAA.COM/ LINKS.HTML TO CONFIRM LATEST REVISION OF PLANS HAS BEEN SUBMITTED. PLAN # IS: 506027-CA-LRP 02410.

Allowable Span Table and Uplift Fastener Spacing(1)(2)(5)											
3.0 inch - 0.024" - 1.0pcf EPS - 0.024"											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)(4)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	16'-2"	13'-9"	12'-0"	10'-8"	9'-0"	7'-9"	6'-9"	6'-0"	5'-5"	4'-11"	3/8" / foot
Wind (Upward)	17'-2"	14'-5"	12'-5"	11'-1"	9'-5"	8'-1"	7'-0"	6'-3"	5'-7"	5'-1"	n/a
Wind (Downward)	16'-2"	13'-9"	12'-0"	10'-8"	9'-0"	7'-9"	6'-9"	6'-0"	5'-5"	4'-11"	n/a
Snow			10'-4"	9'-2"	8'-3"	7'-7"	6'-9"	6'-0"	5'-5"	4'-11"	1/2" / foot
Fastener Spacing (3) for Uplift Wind Loads	15"	11"	9"	8"	7"	7"	6"	6"	6"	5"	

Notes:

(1) - Roof Panels are intended for use with a Patio Enclosure as defined in the 2007 California Building Code.

- The Applied Pressure for Design (column headings) shown in the table is an "equivalent" uniform load. Consideration shall be given to load combinations presented in the Code and site specific conditions such as drifting and sliding snow. After determination of the applied pressure, the allowable panel span is determined for each load type using the greatest calculated pressure for all load combinations which include the specific load type. This process is repeated for each of the four (4) load types. The minimum allowable span calculated for each of the 4 load types shall be the "Allowable Span" used for the proposed application.

- Unless otherwise noted, the maximum eave projection of the roof system is 24-inches.

(2) Panel Spans are based on a maximum temperature differential between the two panel skins of 10 degrees fahrenheit.

(3) Fasteners shall be #10 sms, 12 TPI with 1.5" diameter aluminum washer and neoprene insert. Length of fastener shall be at least 1 inch longer than Roof Panel thickness. Alloy and minimum thickness of header shall be 6063-T5 and 0.055 inches, respectively.

(4) Minimum panel slopes are based on panel deflection only. Increased slopes will be required where panel accessories, such as mullions or flashing , can increase ponding caused by irregularities in the water flow path.

(5) When panels are subject to maintenance loads (as defined in the Code), maximum span shall be limited to 16'-6" or that indicated in the span table, whichever is less.

2CX

Allowable Span Table and Uplift Fastener Spacing(1)(2)(5)											
4.0 inch - 0.024" - 1.0pcf EPS - 0.024"											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)(4)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	19'-2"	15'-11"	13'-10"	12'-6"	10'-10"	9'-4"	8'-3"	7'-4"	6'-7"	6'-0"	1/4" / foot
Wind (Upward)	20'-9"	16'-9"	14'-5"	12'-11"	11'-6"	9'-10"	8'-7"	7'-7"	6'-10"	6'-2"	n/a
Wind (Downward)	19'-2"	15'-11"	13'-10"	12'-6"	10'-10"	9'-4"	8'-3"	7'-4"	6'-7"	6'-0"	n/a
Snow			11'-9"	10'-3"	9'-2"	8'-3"	7'-6"	6'-10"	6'-4"	5'-11"	1/2" / foot
Fastener Spacing (3) for Uplift Wind Loads	13"	10"	8"	7"	6"	6"	6"	5"	5"	5"	

Notes:

(1) - Roof Panels are intended for use with a Patio Enclosure as defined in the 2007 California Building Code.

- The Applied Pressure for Design (column headings) shown in the table is an "equivalent" uniform load. Consideration shall be given to load combinations presented in the Code and site specific conditions such as drifting and sliding snow. After determination of the applied pressure, the allowable panel span is determined for each load type using the greatest calculated pressure for all load combinations which include the specific load type. This process is repeated for each of the four (4) load types. The minimum allowable span calculated for each of the 4 load types shall be the "Allowable Span" used for the proposed application.

- Unless otherwise noted, the maximum eave projection of the roof system is 24-inches.

(2) Panel Spans are based on a maximum temperature differential between the two panel skins of 10 degrees fahrenheit.

(3) Fasteners shall be #10 sms, 12 TPI with 1.5" diameter aluminum washer and neoprene insert. Length of fastener shall be at least 1 inch longer than Roof Panel thickness. Alloy and minimum thickness of header shall be 6063-T5 and 0.055 inches, respectively.

(4) Minimum panel slopes are based on panel deflection only. Increased slopes will be required where panel accessories, such as mullions or flashing , can increase ponding caused by irregularities in the water flow path.

(5) When panels are subject to maintenance loads (as defined in the Code), maximum span shall be limited to 21'-0" or that indicated in the span table, whichever is less.

2CX

Allowable Span Table and Uplift Fastener Spacing(1)(2)(5)											
6.0 inch - 0.024" - 1.0pcf EPS - 0.024"											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)(4)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	21'-0"	17'-6"	15'-3"	13'-9"	12'-7"	11'-8"	10'-11"	10'-4"	9'-10"	9'-1"	1/4" / foot
Wind (Upward)	23'-0"	18'-7"	16'-0"	14'-3"	13'-0"	12'-0"	11'-2"	10'-7"	10'-0"	9'-5"	n/a
Wind (Downward)	21'-0"	17'-6"	15'-3"	13'-9"	12'-7"	11'-8"	10'-11"	10'-4"	9'-10"	9'-1"	n/a
Snow			13'-8"	12'-3"	11'-3"	10'-5"	9'-9"	9'-3"	8'-9"	8'-4"	1/2" / foot
Fastener Spacing (3) for Uplift Wind Loads	12"	9"	7"	6"	6"	5"	5"	4"	4"	4"	

Notes:

(1) - Roof Panels are intended for use with a Patio Enclosure as defined in the 2007 California Building Code.

- The Applied Pressure for Design (column headings) shown in the table is an "equivalent" uniform load. Consideration shall be given to load combinations presented in the Code and site specific conditions such as drifting and sliding snow. After determination of the applied pressure, the allowable panel span is determined for each load type using the greatest calculated pressure for all load combinations which include the specific load type. This process is repeated for each of the four (4) load types. The minimum allowable span calculated for each of the 4 load types shall be the "Allowable Span" used for the proposed application.

- Unless otherwise noted, the maximum eave projection of the roof system is 24-inches.

(2) Panel Spans are based on a maximum temperature differential between the two panel skins of 10 degrees fahrenheit.

(3) Fasteners shall be #10 sms, 12 TPI with 1.5" diameter aluminum washer and neoprene insert. Length of fastener shall be at least 1 inch longer than Roof Panel thickness. Alloy and minimum thickness of header shall be 6063-T5 and 0.055 inches, respectively.

(4) Minimum panel slopes are based on panel deflection only. Increased slopes will be required where panel accessories, such as mullions or flashing , can increase ponding caused by irregularities in the water flow path.

(5) When panels are subject to maintenance loads (as defined in the Code), maximum span shall be limited to 23'-0" or that indicated in the span table, whichever is less.

2CX

VISIT WWW.TJCAA.COM/ LINKS.HTML TO CONFIRM LATEST REVISION OF PLANS HAS BEEN SUBMITTED. PLAN # IS: 506027-CA-LRP 02410.

APPROVED

by C.M.J. Engineering, Inc., a Department of Housing and Community Development approved third party design approval agency for FACTORY BUILT HOUSING

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DATE APPROVED JUL 30 2010

Plan Approval No. CMJ- 585 -FBH- 1

EXPIRES JUL 30 2013 MODEL LRP 2410

APPROVAL NOT APPLICABLE TO FOUNDATIONS

MANUFACTURING FACILITY:
STRUCTALL BUILDING SYSTEMS, INC
350 BURBANK ROAD
OLDSMAR, FLORIDA 34677
PHONE: (813) 855-2627

TJC AND ASSOCIATES, INC.

JUL 21 2010
DATE SIGNED

REGISTERED PROFESSIONAL ENGINEER TERENCE J. CAVANAGH S 3108 EXP. DEC. 31, 2011 STRUCTURAL STATE OF CALIFORNIA

WET SIGNED WITH BLUE INK

WET SIGNED DOCUMENT HAS EMBOSSED CORPORATE SEAL

REV.	DATE	BY	COMMENT
2.00	7/10	TJC	MINOR EDITS
0.00	06/07	TJC	INITIAL ISSUE

STRUCTALL BUILDING SYSTEMS
350 BURBANK ROAD
OLDSMAR, FLORIDA 34677
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THIS BAR SCALES EXACTLY ONE HALF INCH AT FULL SCALE

DESIGNED BY:	TJC
DRAWN BY:	ADM
CHECKED BY:	RWC
SCALE:	AS SHOWN
DATE:	JUNE 2007

CA STD PLAN - LAMINATED ROOF PANEL

0.024-1.0pcf-0.024

SHEET NO. CA-LRP 2410

X:\TJCAA - 5___ Projects, Terrapin Testing\2006\506027 - Structall\506027 - Rev 2.00\ 506027 CA-LRP 02410-2.00 07/21/10 09:34 bee XREFS: Std Plan Border, California