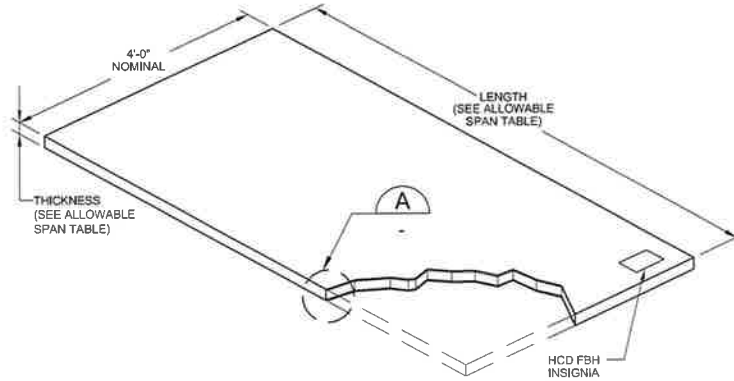
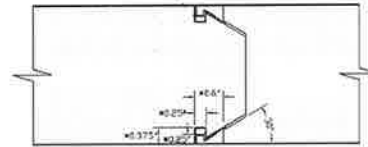


**GENERAL NOTES AND SPECIFICATIONS:**

- 1) THE FOAM CORE PANELS DEPICTED WITHIN THIS DRAWING ARE INTENDED FOR USE AS STRUCTURAL, INSULATED ROOF PANELS, AND LOAD-BEARING OR NONLOAD-BEARING WALL PANELS FOR TYPE V&B CONSTRUCTION AS REGULATED BY THE 2016 CALIFORNIA BUILDING CODE (CBC) PROVISIONS THAT ARE LOCALLY ENFORCEABLE AND UNDER THE JURISDICTION OF CITY AND COUNTY BUILDING OFFICIALS.
- 2) THE MANUFACTURER OF ANY COMPONENT CITED FOR MATERIALS IN ESR 3152 SHALL PROVIDE CERTIFICATION WITH EACH SHIPMENT THAT ALL COMPONENTS PROVIDED WITHIN THE SHIPMENT CONFORM TO THE APPLICABLE SPECIFICATION (S) AND/OR DEFINITION (S) THEREIN.
- 3) PANELS SHALL BE CONTINUOUS IN THE DIRECTION OF SPAN WITH NO TRANSVERSE JOINTS.
- 4) PANELS SHALL BE USE FOR SINGLE SPAN CONDITIONS. MULTI-SPAN CONDITIONS ARE NOT ALLOWED.
- 5) METAL PANEL FASTENERS SHALL BE STAINLESS STEEL OR ALUMINIZED, HOT-DIP GALVANIZED OR ELECTROGALVANIZED STEEL.
- 6) AN IDENTIFICATION DECAL WITH DEPARTMENT OF HOUSING INSIGNIA AND MANUFACTURER'S IDENTIFICATION NUMBER SHALL BE LOCATED AT ONE END OF EACH PANEL.
- 7) 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.
- 8) PLANS ARE CONSIDERED NULL AND VOID IF THEY DO NOT CONTAIN ORIGINAL SEAL AND SIGNATURE (IN BLUE INK) BY THE ENGINEER OF RECORD (EOR) OR THE FACTORY BUILT HOUSING APPROVAL STAMP.
- 9) UNLESS OTHERWISE NOTED THE SCOPE OF THIS DRAWING PACKAGE IS LIMITED TO THE STRUCTURAL ASPECTS OF THE SUBJECT PANELS. NONSTRUCTURAL REQUIREMENTS, INCLUDING FIRE SAFETY PROVISIONS, OF THE GOVERNING CODE AND LOCAL JURISDICTION SHALL BE ADDRESSED BY THE MANUFACTURER AND/OR CONTRACTOR.
- 10) SPANS PRESENTED WITHIN THE "ALLOWABLE SPAN TABLE (S)" ARE BASED ON UNFACTORED LOADS. THEREFORE, THE "APPLIED PRESSURE FOR DESIGN" SHALL BE DEVELOPED USING THE LOAD COMBINATIONS DEFINED IN THE CBC FOR ALLOWABLE STRESS DESIGN (ASD).
- 11) UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE PLANS, MATERIALS, FABRICATION, AND INSTALLATION SHALL COMPLY WITH ICC-ES ESR 3152.
- 12) THE WALL AND ROOF PANELS HAVE BEEN TESTED FOR 1" WIDE BEARING CONDITIONS. WIDER BEARING CONDITIONS ARE ALLOWED PROVIDED THE APPLIED LOADS DO NOT EXCEED THOSE PRESENTED WITHIN TABLE 1.



**TYPICAL ROOF AND WALL PLAN**  
NTS




**PANEL JOINT DETAIL**  
NTS

**MANUFACTURING FACILITY:**  
STRUCTALL BUILDING SYSTEMS, INC.  
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OLDSMAR, FLORIDA 34677  
PHONE: (813) 855-2627

DESIGNED BY:	TJC	DATE:	APRIL 2017
DRAWN BY:	BY	CHECKED BY:	RWC
SCALE:	AS SHOWN	DATE:	

THESE PLANS ARE FOR ONE UNIT FULL SCALE
STRUCTALL BUILDING SYSTEMS, INC. 350 BURBANK ROAD OLDSMAR, FLORIDA 34677 PHONE: (813) 855-2627
DATE: 04/28/17
BY: CHRISTOPHER DORRIS



**APPROVED FACTORY-BUILT HOUSING**

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Approved Date: **5/10/2017**

By: Christopher Dorris

Expiration Date: **5/10/2020**

Plan Approval No. **RAD-44-1003**

DATE SIGNED: 04/28/17



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TABLE 1A - 4-INCH THICK WALL PANELS

ALLOWABLE UNIFORM APPLIED LOAD <sup>(1)</sup> (psf)		
WALL HEIGHT	DEFLECTION LIMIT	WIND LOAD
8.0 ft	L/120	43 psf
	L/180	43 psf
	L/240	37 psf
9.0 ft	L/120	34 psf
	L/180	34 psf
	L/240	32 psf
10.0 ft	L/120	27 psf
	L/180	27 psf
	L/240	27 psf
11.0 ft	L/120	23 psf
	L/180	23 psf
	L/240	23 psf
12.0 ft	L/120	19 psf
	L/180	19 psf
	L/240	19 psf
13.0 ft	L/120	16 psf
	L/180	16 psf
	L/240	16 psf
14.0 ft	L/120	14 psf
	L/180	14 psf
	L/240	14 psf
15.0 ft	L/120	12 psf
	L/180	12 psf
	L/240	12 psf
16.0 ft	L/120	11 psf
	L/180	11 psf
	L/240	11 psf

NOTES:

- ALL ALLOWABLE LOADS PROVIDED ARE UNIFORM APPLIED LOADS. WHERE NON-UNIFORM LOADS ARE APPLIED TO THE PANEL, AN "EQUIVALENT" UNIFORM LOAD SHALL BE DETERMINED FOR COMPARISON WITH THE VALUES WITHIN THIS TABLE.
- DEFLECTION LIMITATIONS ARE BASED ON LOAD COMBINATIONS PRESENTED IN TABLE 1605.3 OF THE 2016 CALIFORNIA BUILDING CODE (CBC).
- ALLOWABLE LOADS ARE FOR "APPLIED" LOADS. SELF-WEIGHT OF PANEL NEED NOT BE INCLUDED WITHIN THE ALLOWABLE LOADS SHOWN.
- ALLOWABLE LOADS ARE BASED UPON PANEL WIDTHS OF 4'-0".

TABLE 1B - 6-INCH THICK ROOF PANELS

ALLOWABLE UNIFORM APPLIED LOAD <sup>(1)</sup> (psf)				
PANEL SPAN	GRAVITY LOADS			WIND UPLIFT LOAD
	DEFLECTION LIMIT	ALLOWABLE ROOF/FLOOR LIVE LOAD	ALLOWABLE SNOW LOAD(2)	
8.0 ft	L/180	63 psf	38 psf	66 psf
	L/240	49 psf	29 psf	53 psf
	L/360	32 psf	20 psf	35 psf
9.0 ft	L/180	49 psf	35 psf	53 psf
	L/240	43 psf	26 psf	46 psf
	L/360	28 psf	17 psf	31 psf
10.0 ft	L/180	39 psf	31 psf	43 psf
	L/240	38 psf	23 psf	41 psf
	L/360	24 psf	16 psf	28 psf
11.0 ft	L/180	32 psf	28 psf	36 psf
	L/240	32 psf	21 psf	36 psf
	L/360	22 psf	14 psf	25 psf
12.0 ft	L/180	27 psf	25 psf	30 psf
	L/240	27 psf	19 psf	30 psf
12.5 ft	L/180	24 psf	24 psf	28 psf
	L/240	24 psf	18 psf	28 psf
13.0 ft	L/180	22 psf	22 psf	26 psf
	L/240	22 psf	17 psf	26 psf
13.5 ft	L/180	21 psf	21 psf	24 psf
	L/240	21 psf	17 psf	24 psf
13.9 ft	L/180	20 psf	20 psf	23 psf
	L/240	20 psf	16 psf	23 psf

NOTES:

- ALL ALLOWABLE LOADS PROVIDED ARE UNIFORM APPLIED LOADS. WHERE NON-UNIFORM LOADS ARE APPLIED TO THE PANEL, AN "EQUIVALENT" UNIFORM LOAD SHALL BE DETERMINED FOR COMPARISON WITH THE VALUES WITHIN THIS TABLE.
- DEFLECTION LIMITATIONS ARE BASED ON LOAD COMBINATIONS PRESENTED IN TABLE 1605.3 OF THE 2016 CALIFORNIA BUILDING CODE (CBC) WITH THE EXCEPTION THAT CREEP OF THE FOAM CORE HAS BEEN CONSIDERED WHEN PANELS ARE SUBJECTED TO LONG TERM SNOW LOADS.
- ALLOWABLE LOADS ARE BASED ON PANEL STRENGTH. CAPACITY OF END CONDITIONS MUST BE EVALUATED ON A SITE SPECIFIC BASIS.
- DEFLECTIONS FOR ALLOWABLE ROOF/FLOOR LIVE LOADS DO NOT INCLUDE CREEP CAUSED BY LONG TERM LOADS. SITE SPECIFIC ENGINEERING SHALL CONSIDER THE EFFECTS OF CREEP, IF APPLICABLE.
- WHERE A LOAD COMBINATION INCLUDES MORE THAN ONE LOAD TYPE (ROOF LIVE LOAD (RL), SNOW LOAD (SL) AND/OR WIND LOAD (WL)), THE MINIMUM ALLOWABLE LOAD FOR ALL LOAD TYPES WITHIN THE LOAD COMBINATION SHALL BE USED. AS AN EXAMPLE, FOR A 6-INCH ROOF PANEL WITH A SPAN OF 10 FEET AND A DEFLECTION LIMIT OF L/240, THE ALLOWABLE APPLIED LOAD FOR A LOAD COMBINATION WHICH INCLUDES RLL AND SL IS 23 PSF (THE LESSER OF 38 PSF FOR RLL AND 23 PSF FOR SL).
- LEDGER CONNECTIONS ARE NOT PERMITTED FOR THE ROOF PANELS.
- ALLOWABLE LOADS ARE FOR "APPLIED" LOADS. SELF WEIGHT OF THE PANEL AND UP TO 5 PSF OF ADDED DEAD LOAD NEED NOT BE INCLUDED WITHIN THE ALLOWABLE LOADS SHOWN.
- THE 300 POUND ROOF MAINTENANCE WORKER LIVE LOAD HAS BEEN CONSIDERED IN THE ABOVE SPAN / LOADS.

TABLE 2

ALLOWABLE RACKING LOAD (plf)			
PANEL HEIGHT	PANEL THICKNESS	ALLOWABLE LONGITUDINAL SHEAR LOAD	MAXIMUM RATIO H/W
8'-0"	4"	173	1.0

NOTES:

- SEE FIGURE 5 FOR FASTENER REQUIREMENTS.
- PANELS THICKER THAN 4 INCH MAY BE USED FOR RACKING LOADS PROVIDED THEIR ALLOWABLE LOADS ARE LIMITED TO THOSE PRESENTED FOR A 4 INCH THICK PANEL.

TABLE 3

ALLOWABLE AXIAL LOAD (plf)		
MAX PANEL HEIGHT	PANEL THICKNESS	ALLOWABLE AXIAL LOAD
16'-0"	4"	614

NOTES:

- SEE FIGURE 1 AND 2 FOR FASTENER REQUIREMENTS.
- PANELS THICKER THAN 4 INCH MAY BE USED FOR AXIAL LOADS PROVIDED THEIR ALLOWABLE LOADS ARE LIMITED TO THOSE PRESENTED FOR A 4 INCH THICK PANEL.

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SHEET NO. 2 OF 3  
 CA-LRP 26g10  
 26g10-1.0pct-26g  
 APRIL 2017

DESIGNED BY: TJC  
 DRAWN BY: BV  
 CHECKED BY: RWC  
 SCALE: AS SHOWN  
 DATE: APRIL 2017



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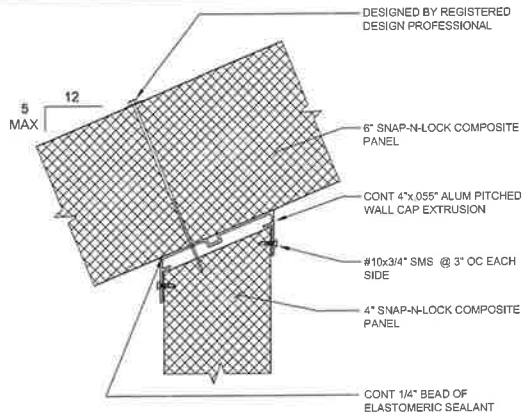


FIGURE 1 - PANEL WALL TO PANEL ROOF

SCALE: NTS

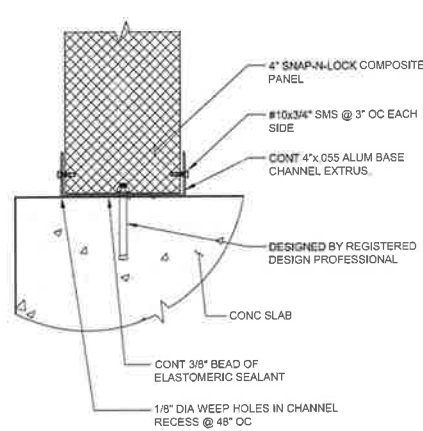


FIGURE 2 - PANEL WALL TO SLAB

SCALE: NTS

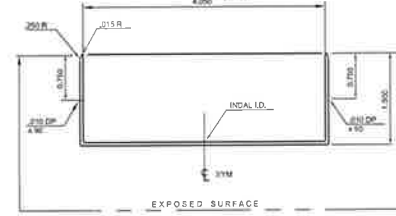


FIGURE 3 - BASE CHANNEL

SCALE: NTS

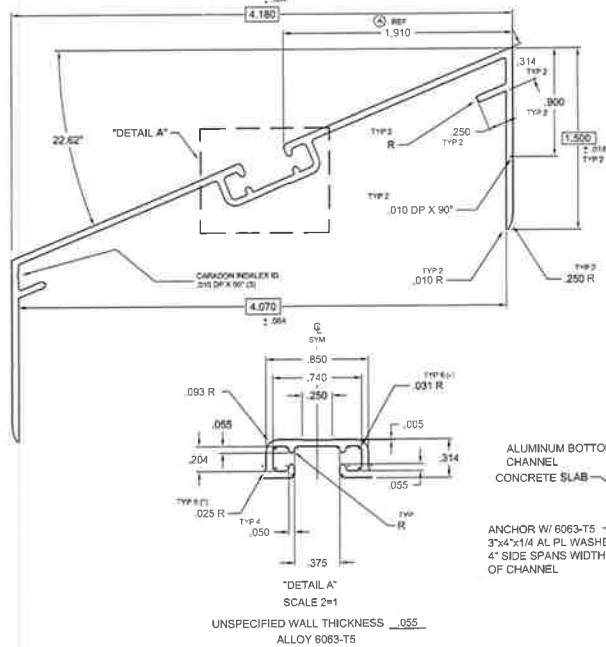
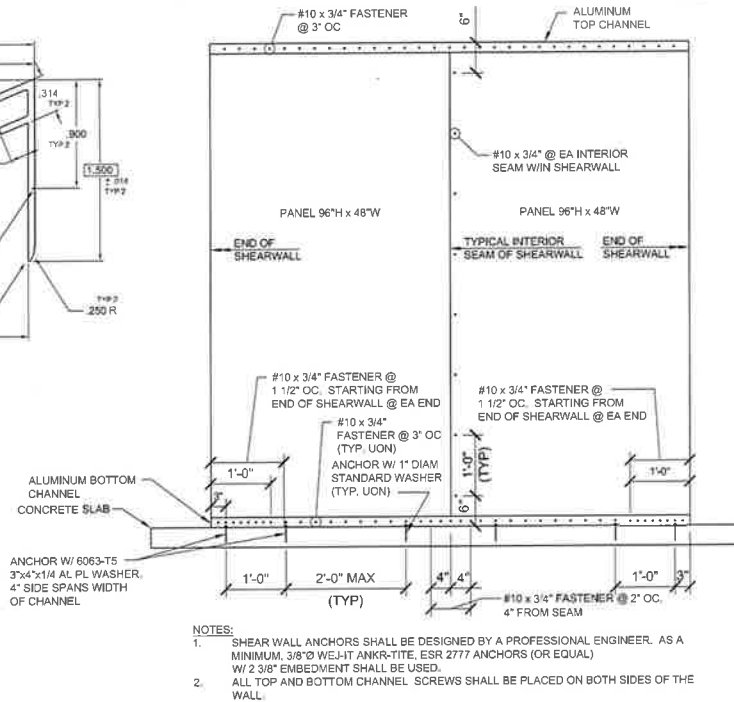


FIGURE 4 - WALL CAP

SCALE: NTS



NOTES:

1. SHEAR WALL ANCHORS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER. AS A MINIMUM, 3/8" Ø WEL-TIT ANKR-TITE, ESR 2777 ANCHORS (OR EQUAL) W/ 2 3/8" EMBEDMENT SHALL BE USED.
2. ALL TOP AND BOTTOM CHANNEL SCREWS SHALL BE PLACED ON BOTH SIDES OF THE WALL.

FIGURE 5 - SHEAR WALL FASTENING SCHEDULE

SCALE: NTS

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SHEET NO.  
CA-LRP  
26g10  
SHEET 3 OF 3

CA STD PLAN -  
LAMINATED ROOF AND WALL PANEL  
26ga-1.0pcf-26ga

DESIGNED BY: TJC  
DRAWN BY: BV  
CHECKED BY: RWC  
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