

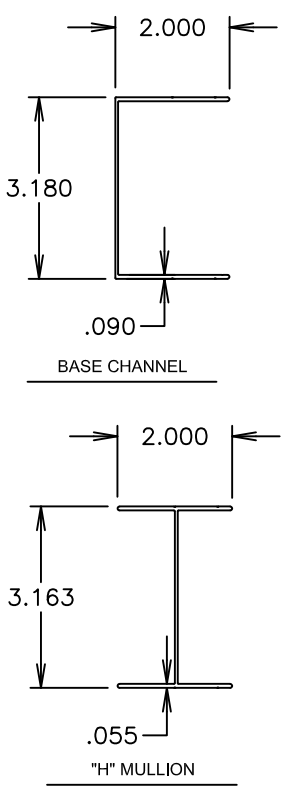
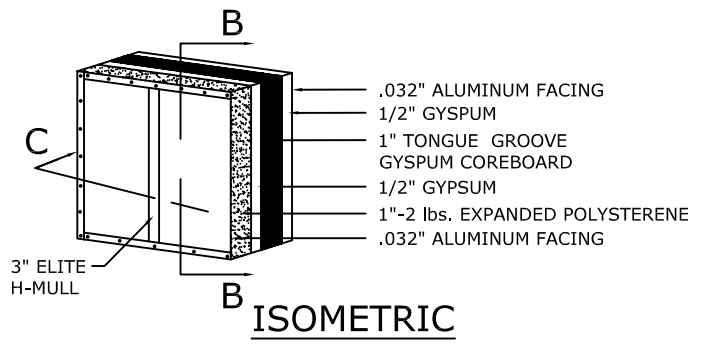


4650 Lyons Technology Pkwy
Coconut Creek, FL 33073
1-954-949-3200

3"(MIN.) x 0.032 x 2.0-LB EPS PANEL (ALLOWABLE CLEAR SPAN CHARTS)			
MAX. ULTIMATE DESIGN PRESSURE¹ (PSF)	MAX. ALLOWABLE SPAN (FT)		
	L/80	L/120	
+71.7/-116.7	9.0	9.0	

¹ P_{net}=+43 PSF CORRESPONDS P_{ult}=+71.7 PSF; P_{net}=-70 PSF CORRESPONDS P_{ult}=-116.7 PSF

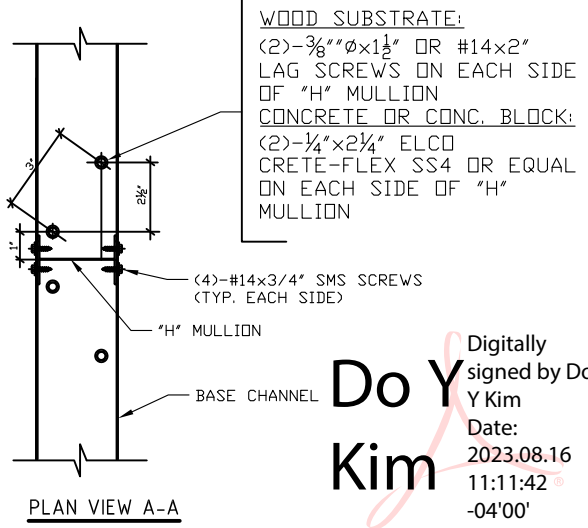
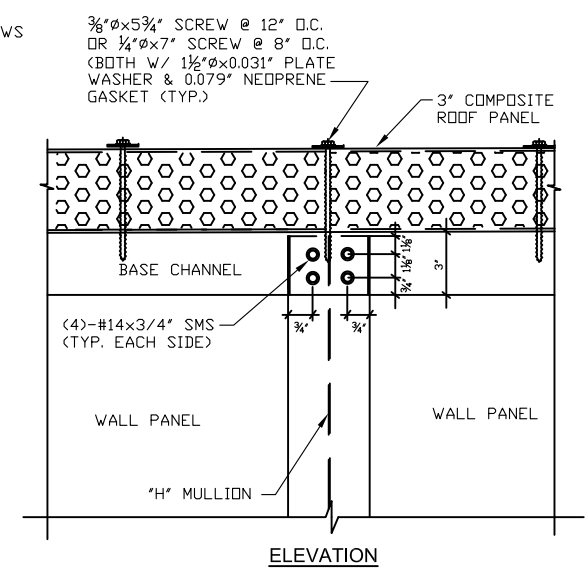
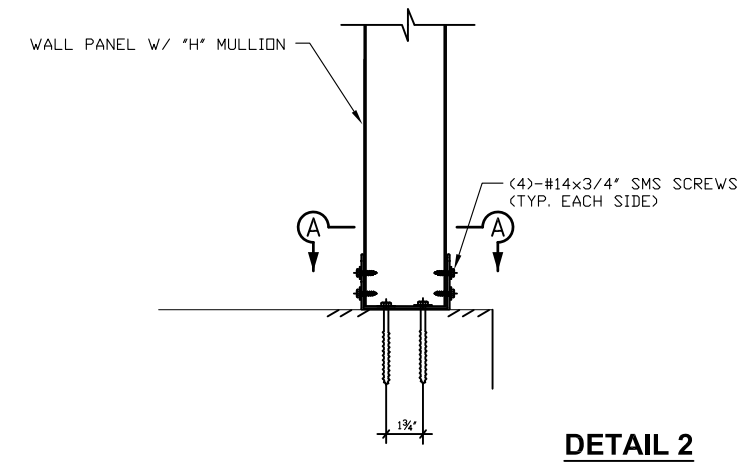
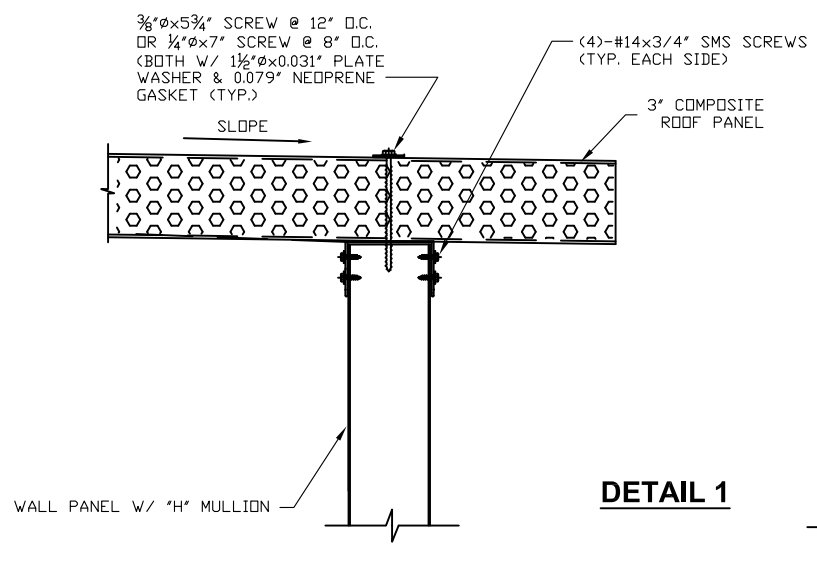
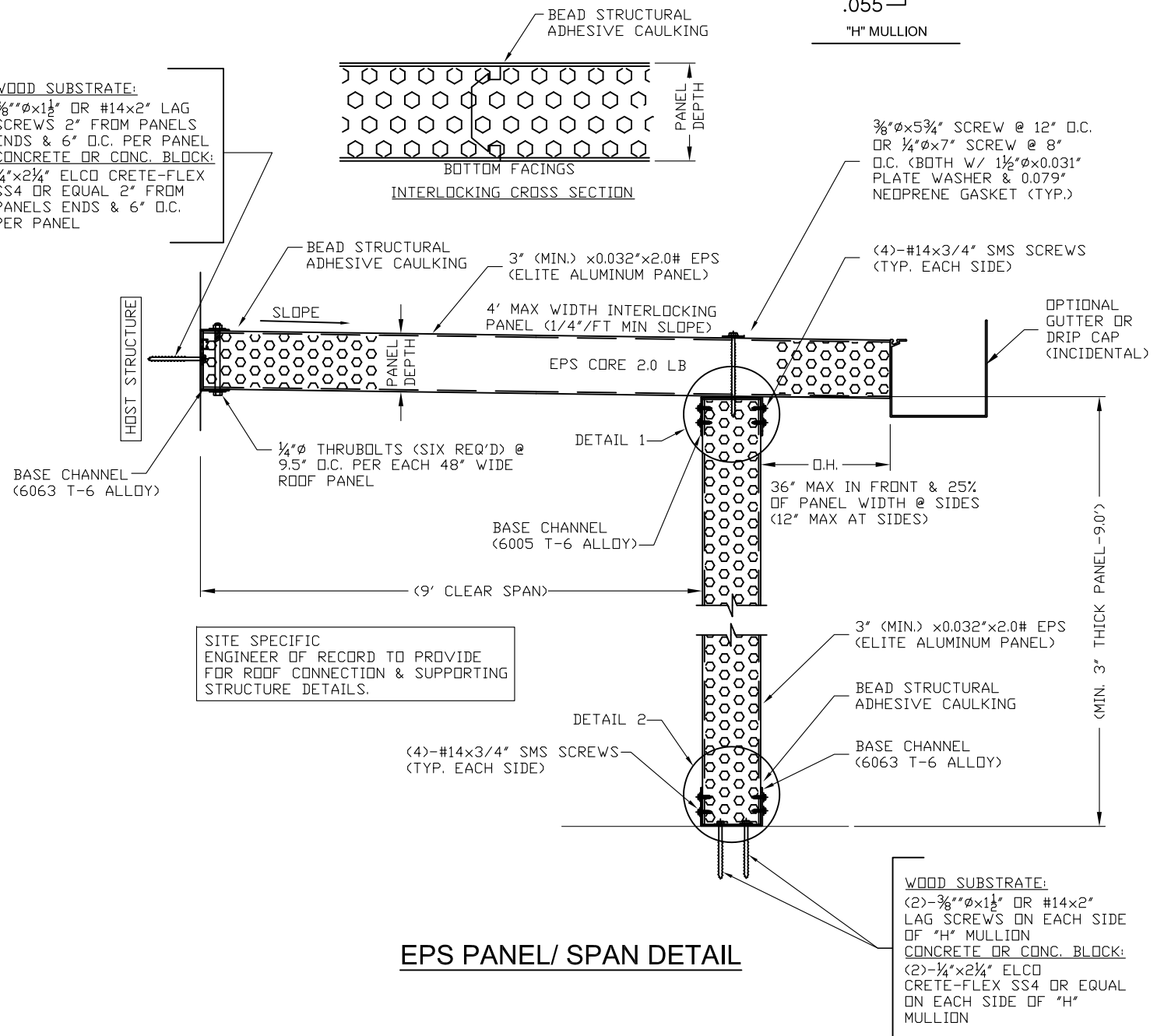
ELITE 1 HOUR FIRE RATED PANEL



GENERAL NOTES

- Composite panels shall be constructed using type 3105-H154 or 3003-H154 aluminum facings, 2 PCF ASTM C-578 Kingspan Insulation LLC or Imperial Foam & Insulation MFG. CO. brand EPS adhered to aluminum facings with Ashland Chemical 2020D ISO grip. Fabrication to be by Elite panel products only in accordance with approved fabrication methods.
- Elite roof panels maintain a UL 1715 (int) class 'B' (ext) rating and are NER-501 approved.
- Elite 1 hour fire rated panel exceeds the structural and impact capacity of the standard 3"x0.032"x 1-lb EPS panel. Double 1 hour panel to achieve 2 hour fire rating wall.
- This specification has been designed and shall be fabricated in accordance with the requirements of the Florida Building Code 8TH Edition (FBC), composite panels comply with Chapter 7 Section 720, Chapter 8 Section 803, Class A interior finish, and Chapter 26 Section 2603. All local building code amendments shall be adhered to as required.
- The designer shall determine by accepted engineering practice the allowable loads for site specific load conditions (including load combinations) using the data from the allowable load tables and spans in this approval.
- Deflection limits and allowable spans have been listed to meet FBC including the HVHZ.
- Testing has been conducted in accordance to TAS 201-94, TAS 202-94 (including water), TAS 203-94, and ASTM E72.
- Reference test report number 97-044 from Construction Testing Corporation, 13873 N.W. 19th Avenue, Miami, FL 33054.
- In the HVHZ, all fasteners to be austenitic stainless steel or coated or plated carbon steel with a Rockwell hardness less than C35 in the load bearing portion of the shank. Screws shall be zinc coated per ASTM A123, A641, or B633 or nickel/chromium plated per ASTM B456, Type SC per Aluminum Design Manual-Part 1.
- Panels with fan beams shall be considered equivalent to similar panels without fan beams. Design professionals may include the strength of the fan beam to exceed shown figures as part of site-specific engineering.
- Products meet the FBC deflection limits including the HVHZ (L/80 for spans ≤ 12'-0" in HVHZ and L/120 in non-HVHZ per Chapter 16 Table 1604.3.
- In HVHZ regions, the L/80 deflection limit is for use in Group R3 occupancies with roof projection not exceeding 12 feet and where the structures are not to be considered living areas per FBC Section 1616.3.1 #8.
- Roof panels may be interlocked to unlimited width within the limitations of the site-specific engineering. Walls panels shall be maximum 48" wide with "H" mullion between wall panels.
- Wall and roof panels may be used in site-specific engineered sunroom systems utilizing glazed openings as allowed by the engineer of record. Engineer of record may specify equivalent alternate connection details.
- Concrete substrate shall be 3350 PSI minimum. Concrete block shall be 2070 PSI minimum. Wood shall have specific gravity (G) of 0.36 minimum.

WOOD SUBSTRATE:
3/8"Øx1 1/2" OR #14x2" LAG
SCREWS 2" FROM PANELS
ENDS & 6" O.C. PER PANEL
CONCRETE OR CONC. BLOCK:
1/4" x 2 1/4" ELCO CRETE-FLEX
SS4 OR EQUAL 2" FROM
PANELS ENDS & 6" O.C.
PER PANEL



DO KIM
& ASSOCIATES, LLC

CONSULTING
STRUCTURAL
ENGINEERS

PO Box 10039
Tampa, FL 33679
Tel: (813) 857-9955

Rev./Date	Description
△ 8/16 2017	ISSUED FOR PRODUCT APPROVAL
△ 8/6 2020	ISSUED FOR 7th EDITION FBC PRODUCT APPROVAL
△ 8/15 2023	ISSUED FOR 8th EDITION FBC PRODUCT APPROVAL
△	
△	

Elite Aluminum Corporation
4650 Lyons Technology Pkwy
Coconut Creek, FL 33073

EPS FOAM CORE COMPOSITE PANELS
ALUMINUM/ALUMINUM SKIN
FLORIDA STATEWIDE PRODUCT APPROVAL

DRAWN BY:	DYK
CHECKED BY:	DYK
SCALE:	AS SHOWN
DATE:	2/19/09

DO YEON KIM, P.E.
FLA. REG. NUMBER 49497

DO KIM & ASSOCIATES, LLC
CA# 26887
PO Box 10039
Tampa, FL 33679

This item has been digitally signed and sealed by Do Y. Kim on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Y Kim
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