



BCIS Home | Log In | User Registration | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | BCIS Site Map | Links | Search



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE SECRETARY

FL #	FL12225-R4
Application Type	Revision
Code Version	2017
Application Status	Approved

Comments
Archived

Product Manufacturer	Elite Aluminum Corporation
Address/Phone/Email	4650 Lyons Technology Parkway Coconut Creek, FL 33073 (954) 949-3200 dk@dokimengineering.net

Authorized Signature	Do Kim dk@dokimengineering.net
----------------------	-----------------------------------

Technical Representative	Bruce Peacock
Address/Phone/Email	4650 Lyons Technology Parkway Coconut Creek, FL 33073 (954) 949-3200 bpeacock@elitealuminum.com

Quality Assurance Representative
Address/Phone/Email

Category	Structural Components
Subcategory	Products Introduced as a Result of New Technology

Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received
-------------------	--

Florida Engineer or Architect Name who developed the Evaluation Report	Do Kim
Florida License	PE-49497
Quality Assurance Entity	QAI Laboratories
Quality Assurance Contract Expiration Date	12/31/2022
Validated By	James L. Buckner, P.E. @ CBUCK, Inc. Validation Checklist - Hardcopy Received

Certificate of Independence [FL12225_R4_COI_Elite_Cert_of_Indep.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 08/16/2017

Date Validated 08/16/2017

Date Pending FBC Approval 08/20/2017

Date Approved 10/10/2017

Summary of Products

FL #	Model, Number or Name	Description
12225.1	3" (min.) x0.032"x2# Aluminum Composite Panel	Aluminum skin, EPS Core, composite panel system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +43/-70 Other: Nominal allowable pressure listed. Wall panels shall be max. 48" wide with "H" mullion between wall panels.		Installation Instructions FL12225_R4_II_FL12225-R4 2017 FBC- HVHZ Elite Panel Spans Install Dwg.pdf Verified By: Do Kim,P.E. 49497 Created by Independent Third Party: Yes Evaluation Reports FL12225_R4_AE_FL12225 -R4 2017 FBC-Eval Report Elite HVHZ.pdf Created by Independent Third Party: Yes
12225.2	3" (min.) x0.032"x2# Aluminum Composite Panel	Elite 1 hour fire rated panel
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +43/-70 Other: Nominal allowable pressure listed. Wall panels shall be max. 48" wide with "H" mullion between panels.		Installation Instructions FL12225_R4_II_FL12225-R4 2017 FBC- HVHZ Elite Panel Spans Install Dwg.pdf Verified By: Do Kim, P.E. P.E. 49497 Created by Independent Third Party: Yes Evaluation Reports FL12225_R4_AE_FL12225 -R4 2017 FBC-Eval Report Elite HVHZ.pdf Created by Independent Third Party: Yes
12225.3	3" (min.) x0.032"x2# Aluminum Composite Panel	Aluminum skin, EPS Core, composite panel system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +43/-70 Other: Nominal allowable pressure listed. Panels shall be max. 48" width tested. Multiple roof panels may be interlocked.		Installation Instructions FL12225_R4_II_FL12225-R4 2017 FBC- HVHZ Elite Panel Spans Install Dwg.pdf Verified By: Do Kim PE PE 49497 Created by Independent Third Party: Yes Evaluation Reports FL12225_R4_AE_FL12225 -R4 2017 FBC-Eval Report Elite HVHZ.pdf Created by Independent Third Party: Yes



Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. [Copyright 2007-2013 State of Florida](#) :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:



Credit Card
Safe



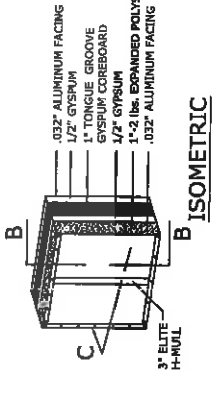


4650 Lyons Technology Pkwy
Coconut Creek, FL 33073
1-954-949-3200

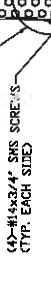
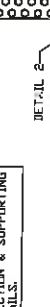
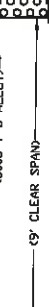
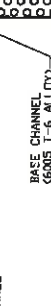
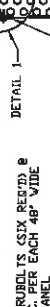
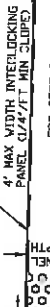
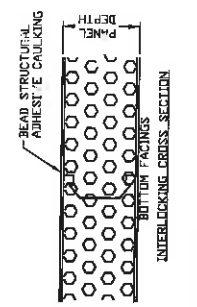
ELITE ALUMINUM CORPORATION

3" OHNS x 2.0-LB EPS PANEL (ALLOWABLE CLEAR SPAN CH-RTS)	MAX. ULTIMATE RESISTANCE*	MAX. ALLOWABLE SPAN (FT)
RESISTANCE CSEF	L/80	L/120
*R _u = 1/3 FOR COMPRESSION; R _u = 1/2 FOR TENSION; R _u = 1/4 FOR	9.6	5.1

ELITE 1 HOUR FIRE RATED PANEL



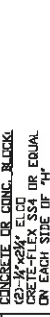
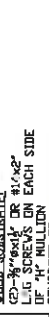
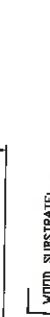
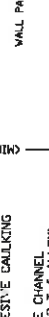
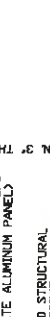
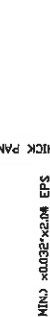
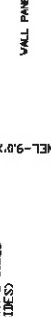
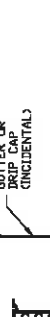
ISOMETRIC



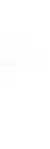
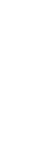
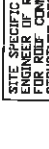
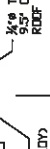
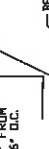
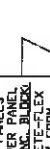
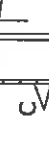
GENERAL NOTES

- Composite panels shall be constructed using type 3105-H154 or 3003-H154 aluminum facings, 2 PCF ASTM C-578 Dypolux Products LLC brand EPS adhere to aluminum facings with Ashland Chemical 2020D ISO gip. Fabrication to be by Elite panel products only in accordance with approved fabrication methods.
- Elite roof panels maintain a U.I. 1715 (min) clear 'R' (eak) rating and are NER-501 approved.
- Elite 1 hour fire rated panel exceeds the structural and impact capacity of the standard 3' x0.032\"/>

DETAIL 1



DETAIL 2



DO KIM & ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERS
PO Box 10038
Tempe, FL 33079
Tel: (619) 867-9665

Rev./Date	Description
1/1/17	ISSUED FOR PRODUCT APPROVAL

FLORIDA STATEWIDE PRODUCT APPROVAL
EPS FOAM CORE COMPOSITE PANELS
4650 Lyons Technology Pkwy
Coconut Creek, FL 33073

DRAWN BY: DTK
CHECKED BY: AS SHOWN
SCALE: 2/10/08
DATE:

DO KIM & ASSOCIATES, LLC
DO YEON KIM, P.E.
FLA. REG. NUMBER 48948
2017.06.15 14:11:04

This item has been electronically signed and sealed by Do Y. Kim, P.E. on this date using a Digital Signature. The original paper of this document shall be considered the authoritative document. Any signature made by hand on any electronic copy.

Elite Aluminum Corporation
Drawing No. - 080227-84
SHEET 1 OF 1

DO KIM & ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERS

Florida Board of Engineers Certificate of Authorization No. 26887

Product Evaluation Report

Date: August 16, 2017

Report No.: 090301-R4

Product Category: Structural Components (FL#12225-R4)

Product sub-category: Products Introduced as a Result of New Technology

Product Name: Elite Foam Core-Aluminum Skin Composite Panels

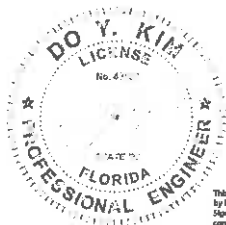
Manufacturer: Elite Aluminum Corporation
4650 Lyons Technology Parkway
Coconut Creek, FL 33073
Phone: 800-421-0682

Scope:

This product evaluation report issued by Do Kim and Associates, LLC and Do Kim, P.E. for Elite Aluminum Corporation is based on Florida Department of Business and Professional Regulation Rule 61G20-3, Method (1) (d) of the State of Florida Product Approval. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or updates.

Do Kim & Associates, LLC and Do Kim, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the Florida Building Code, 6th Edition (FBC), inclusive of the HVHZ and where pressure and deflection requirements, as determined by Chapter 16 of the Florida Building Code, do not exceed the following nominal (allowable) design pressure of +43 psf, -70 psf.



This item has been electronically signed and sealed by Do Y. Kim, PE on 08/16/2017 using a DigiDoc Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. 2017.08.16 11:01:08 -05'3

Do Kim, P.E.
FL #49497

Supporting Documents

1. Drawings:
 - a. Drawing No. 090227-R4 titled "EPS Foam Core Composite Panels Aluminum/Aluminum Skin", Sheet 1 of 1, prepared by Do Kim & Associates, LLC, signed and sealed by Do Kim, P.E.

2. Testing
 - a. Testing per TAS 201-94, TAS 202-94, and TAS 203-94 as performed by Construction Testing Corporation, located at 13873 N.W. 19th Avenue, Miami, FL 33054, (305) 685-6657. Report No 97-044 dated January 21, 1998.
 - b. Miami-Dade County Approved NOA No. 16-1129.05, January 19, 2017. Classified Foamed Plastic Surface Burning Characteristics, Dyplast Products LLC, Flame Spread and Smoke Developed Index for EPS foam is 0 and 110.

3. Calculations
 - a. Anchor calculations for tested loading conditions and fire rating analysis per Gypsum Design Manual GA File No. WP 1311-PG. 35 has been prepared based on comparative and/or rational analysis by Do Kim, P.E.

4. Other
 - a. Quality Assurance Agreement verified with Quality Auditing-Institute, LTD. (QAI Laboratories, LTD.) (FBC Organization #QUA7628).

Limitations and Condition of Use

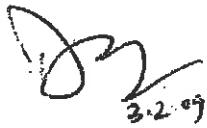
1. Large and small missile impact resistance has been tested to and evaluated for in this approval. Approved for use in HVHZ areas.
2. Each product listed above shall be installed in strict compliance with its respective Product Evaluation Document and site-specific engineering along with all components noted herein.
3. Use of each product shall be in strict accordance with its Product Approval Evaluation Documents.
5. This specification has been designed and shall be fabricated in accordance with the requirements of the Florida Building Code 6th 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.
6. The designer shall determine by accepted engineering practice the allowable loads for site specific load conditions.
7. All supporting host structures shall be designed to resist all superimposed loads.
8. Elite Aluminum Corporation Impact Doors and Impact Windows may be incorporated into system as allowed substitute panels. All limitations shall be adhered to and lowest allowed design pressure shall govern the system design.
9. Composite panels shall be constructed using type 3003-H154 or 3105-H154 aluminum facings, 2 PCF ASTM C-578 Dyplast Products LLC brand EPS foam insulation (NOA No. 16-1129.05) adhere to aluminum facings with Ashland Chemical 2020D ISO grip. Fabrication to be by Elite panel products only in accordance with approved fabrication methods.
10. Elite roof panels maintain a UL 1715 (int) class 'B' (ext) rating and are NER-501 approved.
11. Deflection limits and allowable spans have been listed to meet FBC including the HVHZ (L/80 for spans $\leq 12'-0"$ in HVHZ per Section 1616.3.1, and L/180 in non-HVHZ per Chapter 16 Table 1604.3).
12. All supporting host structures shall be designed to resist all superimposed loads.
13. All components which are permanently installed shall be protected against corrosion, contamination, and other such damage.

DO KIM & ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERS

Florida Board of Engineers Certificate of Authorization No. 26887

Certificate of Independence

Do Kim and Associates, LLC. and Do Kim, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named in the accompanying Florida Product Approval.



3.2.09

Do Kim, P.E.
FL #49497