sagiper

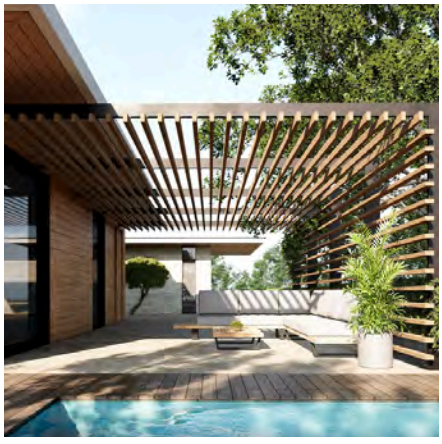
NORTH AMERICA

ARCHITECTURAL PRODUCTS

# SAGIBOND™

## SUBMITTAL PACKAGE 2026

ARCHITECTURAL BUILDING PRODUCTS



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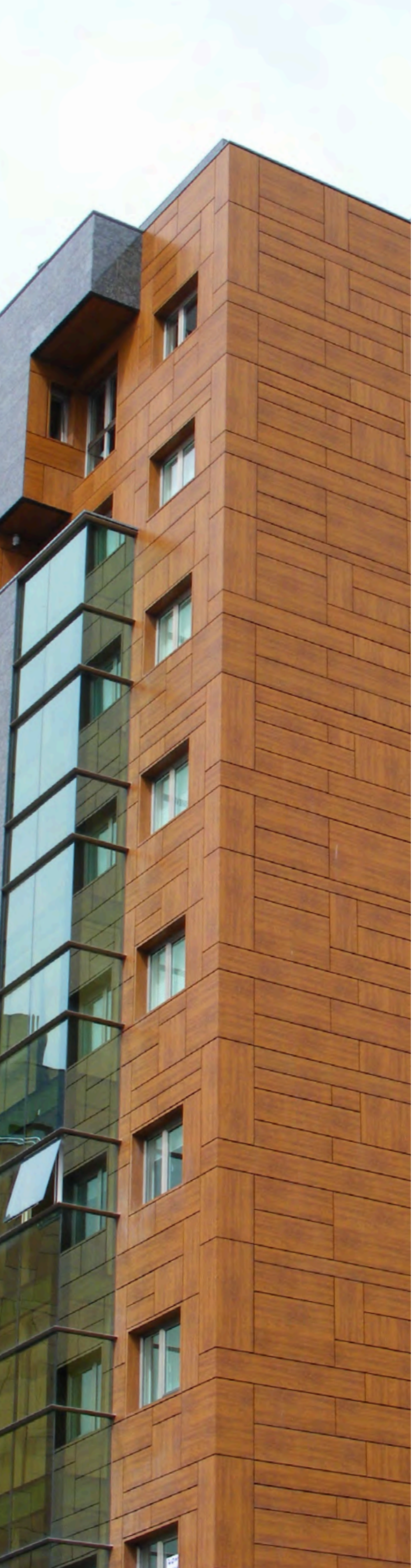


## INTRODUCTION

Born in 1994. SAGIPER emerged into the European market and revolutionized the construction and renovation industry by becoming the pioneer of high performance polymer dual wall siding, soffit and ceiling product lines. Since then SAGIPER has continued its relentless pursuit in maintaining and developing its products to provide aesthetically pleasing maintenance free and modern finishing solutions for all its end users around the world.

## VISION

Sagiper Portugal and Sagiper North America maintain intrinsic ties that are deeply rooted in family values and mirrored in our everyday business operation. Our vision is to become an internationally recognized and trusted manufacturer of quality building materials with a reputation of integrity, honesty and first-class service to all professional levels in the buildings supply chain.

## MISSION

Delivering Timeless Building Solutions by People Who Care.

***CELEBRATING 30 YEARS IN MANUFACTURING.***

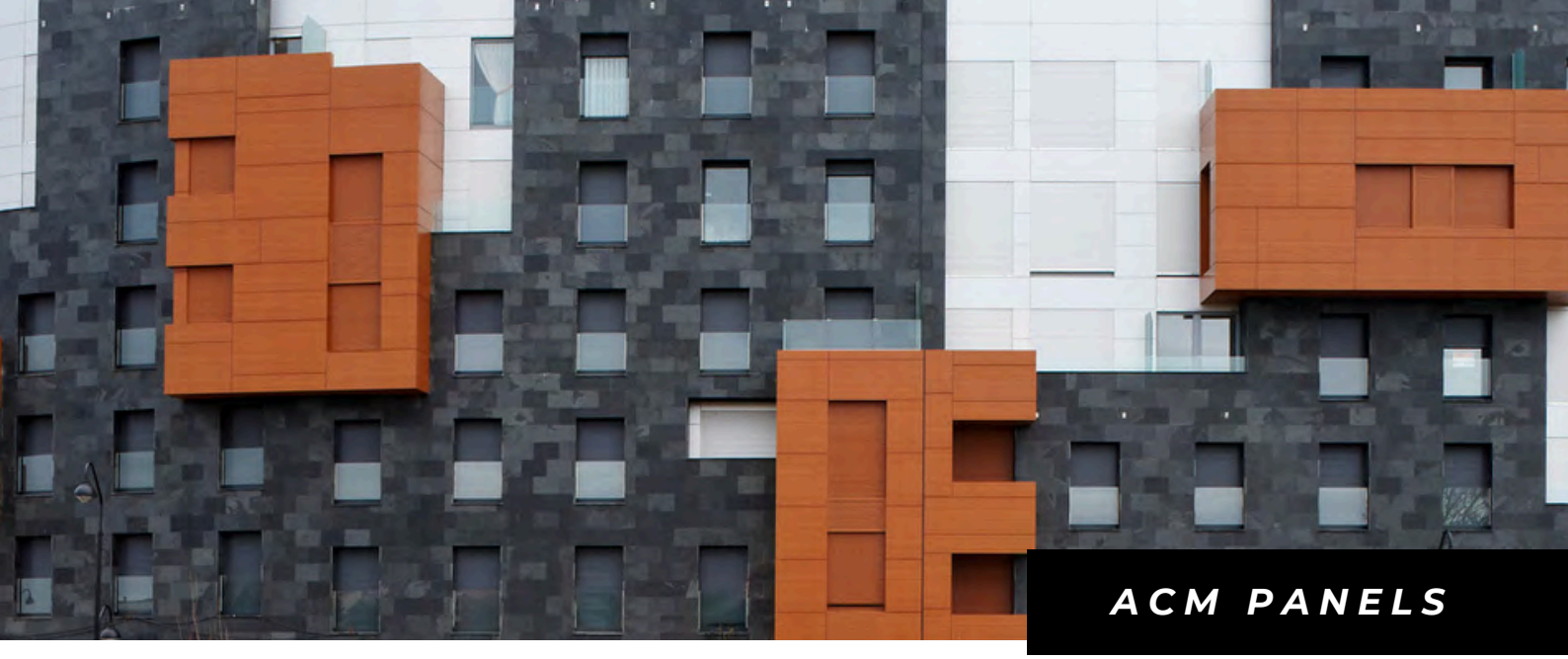
ACM PANELS

# SAGIBOND™

Welcome to SAGIBOND™, where innovation meets elegance in our state-of-the-art architectural ACM Panels by ALUCOIL, exquisitely finished with authentic woodgrain textures. Discover the ultimate fusion of visual allure and unmatched resilience, designed to elevate building facades to architectural masterpieces.

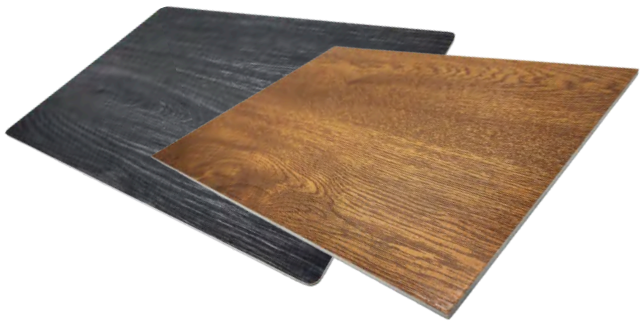
Our collection presents three unique choices; SAGIBOND™ Fireguard, SAGIBOND™ Hexacore, and SAGIBOND™ Slimshield NC, each tailored to limitless creativity and transform your architectural projects.

INVEST IN CURB APPEAL™



**ACM PANELS**

# SAGIBOND™ FIREGUARD



## TESTING

- **American Society for Testing and Materials:**
  - ASTM B117: Method of Salt Spray (Fog) Testing.
  - ASTM B209: Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate.
  - ASTM D635: Standard Test Method for Rate of Burning and/or Extent and Time of Burning for Plastics in a Horizontal Position.
  - ASTM D822: Practice for Operating Light and Water Exposure Apparatus for Testing Paint, Varnish, Lacquer, and Related Products.
  - ASTM D1735: Method for Water Fog Testing of Organic Coatings.
  - ASTM D1781: Climbing Drum Peel Test for Adhesives.
  - ASTM D1929: Standard Test Method for Determining Ignition Temperature of Plastics.
  - ASTM D2247: Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
  - ASTM D2794: Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
  - ASTM D3359: Methods for Measuring Adhesion by Tape Test.
  - ASTM D3363: Method for Film Harness by Pencil Test.
  - ASTM E84: Surface Burning Characteristics of Building Materials.
  - ASTM E283: Rate of Leakage through Exterior Windows, Curtain Walls, and Doors.
  - ASTM E330: Structural Performance of Exterior Windows, Curtain Walls, and Doors Under the Influence of Wind Loads.
  - ASTM E331: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
  - ASTM G155: Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials.

## DIMENSIONS AND PROFILE

- 4mm FR Flat Panel
- Standard lengths 4' x 16' Length

## COMPONENTS

- Substrate components to be sourced and supplied by the applicator/fabricator as per testing assembly requirements.

## FINISHES

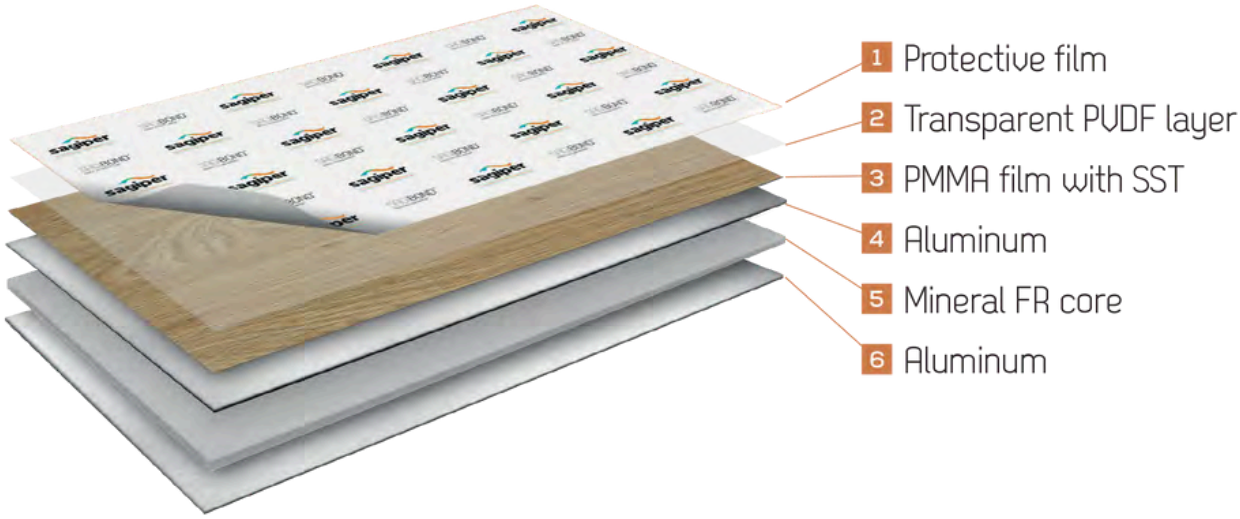
- Wood Grain
- Metallic
- Solid
- RAL

## WARRANTY

***50 YEAR NO FADE WARRANTY***

# SAGIBOND™ FIREGUARD

Our advanced composite Larson panel by Alucoil, featuring two slender aluminum layers adhered to a fire-rated core. Standardized at 4mm thickness and cloaked in our true-to-life wood grain film.




## TESTING

- **Deutsches Institut für Normung (DIN):**
  - DIN EN 573-3:2013: Aluminum and Aluminum Alloys – Chemical Composition and Form of Wrought Products.
  - DIN 53456: Testing of Plastics; Indentation Hardness Test.
- **European Coil Coating Association (ECCA):**
  - ECCA – T8: Resistance to Salt Spray Fog.
- **International Organization for Standardization (ISO):**
  - ISO 6270: Paints and Varnishes: Determination of Resistance to Humidity.
- **National Fire Protection Association (NFPA):**
  - NFPA 285: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components.
- **Underwriter Laboratories of Canada (CAN/ULC):**
  - CAN ULC S134: Standard Method of Fire Test of Exterior Wall Assemblies.
- **INTERTEK**
  - SDReport 29777
- **SAGIPER North America Film Testing:**
  - ASTM D2244-15A - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
  - ASTM D2457-13 - Standard Test Method for Specular Gloss of Plastic Films and Solid Plastics
  - ASTM G155 - Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Material
  - ASTM D638 - Standard Test Method for Tensile Properties of Plastics
  - ASTM D1729 - Standard Practice for Visual Appraisal of Colors and Color Differences of Diffusely-Illuminated Opaque Materials
  - ASTM D772-86 - Standard Test Method for Evaluating Degree of Flaking (Scaling) of Exterior Paints

# SAGIBOND™ FIREGUARD

Our advanced composite panel Larson by ALUCOIL, features two slender aluminum layers adhered to a fire-rated core. Standardized at 4mm thickness and cloaked in our realistic woodgrain films.

## PANEL SPECIFICATION

| | |
|---|---|
| PANEL THICKNESS | 4 mm |
| PANEL WEIGHT | 7.78 kg/m2 (17.13lbs)<br>107 LBS PER SHEET |
| PANEL CORE | Mineral Fire Retardant(FR) |
| FIRE CLASSIFICATION | NFPA 285<br>CAN ULC S134<br>ASTM E84 |
| ALUMINUM THICKNESS | 0.5 mm |
| IMPACT RESISTANCE | 7.78 kg/m2 (17.5lbs) |
| PANEL THICKNESS | 3070 mm4/m |
| RIGIDITY | 2150 kNcm²/m |
| STANDARD WIDTH | 1250 mm |
| STANDARD LENGTH | 5000 mm |
| MINIMUM/MAXIMUM LENGTH (MIN/ORDER) | 2000 - 8000 mm |
| STANDARD ALUMINUM ALLOY | 5005[3] EN 573-3 |
| MODULUS OF ELASTICITY (E) | 70000 N/mm² |
| ULTIMATE TENSILE STRENGTH (RM) | 125<Rm<185 N/mm² |
| ELASTICITY LIMIT (RP0,2) | >80 N/mm² |
| ELONGATION (A) | >3% |
| ALUMINUM THERMAL EXPANSION | 2.3 mm/m Δ100°C |

## SAGIPER FILM

| | |
|---|---|
| INTERIOR FACE | Pre-lacquered |
| EXTERIOR FACE | 200 µ PVC Decorative Film with Imitation Wood and Metal Printing |
| FILM THICKNESS ECCA T1 | 200 µ |
| TENSILE STRESS | >20 N/mm² DIN53456 |
| INDENTATION HARDNESS TEST DIN 53456 | > 80% |
| ACCELERATED WEATHERING ASTM G155 | No change 4500 test hours |
| WEATHER RESISTANCE DIN 53456 | Maximum allowable total solar radiation is 8>GJ/m2 in the Xenotest 450 grade 4 on the gray scale (DIN EN 20105-A02) corresponding to the requirements RAL-GZ 716/1 part 7 |
| ECCA T8 SALT SPRAY TEST | Class 3, according to table C4 (EN 1396)<br>1,000 test hours |
| ISO 6270 MOISTURE TEST | No change in 1000 test hours |

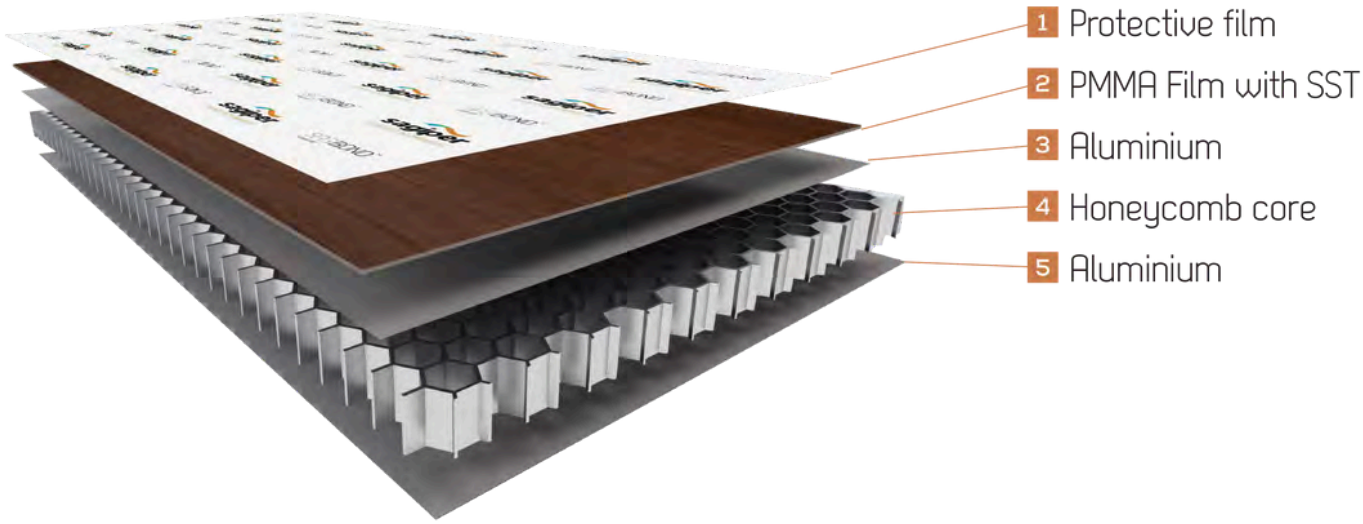
**THE FOLDING TEMPERATURE OF AN ACM PANEL MUST EXCEED 10°C TO PREVENT THE FORMATION OF A WHITE LINE UPON FOLDING.**

## POWDER COATED

| | |
|---|---|
| POWDER COATED FINISH | a) PVDF 70% Kynar 500 2 Layers Coastal Primer 31 µ |
| | b) PVDF 70% Kynar 500 3 Layers 37 µ |

# SAGIBOND™ HEXACORE

Introducing SAGIBOND Hexacore by Alucoil, our cutting-edge aluminum honeycomb panel, meticulously enveloped in authentic woodgrain film. Tailored for architectural facades, envelopes, false ceilings, canopies, and interior cladding, Hexacore seamlessly blends strength with elegance.




## TESTING

- **American Society for Testing and Materials:**
  - ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials.
  - ASTM D1929: Standard Test Method for Determining Ignition Temperature of Plastics
- **National Fire Protection Association (NFPA):**
  - NFPA 285: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components.
- **Underwriter Laboratories of Canada (CAN/ULC):**
  - CAN ULC S134: Standard Method of Fire Test of Exterior Wall Assemblies.
  - CAN ULC S135: Standard test method for the determination of combustibility parameters of building materials using an oxygen consumption calorimeter (CONE CALORIMETER).
- **INTERTEK**
  - SDReport 46046
- **SAGIPER North America Film Testing:**
  - ASTM D2244-15A - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
  - ASTM D2457-13 - Standard Test Method for Specular Gloss of Plastic Films and Solid Plastics
  - ASTM G155 - Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Material
  - ASTM D638 - Standard Test Method for Tensile Properties of Plastics
  - ASTM D1729 - Standard Practice for Visual Appraisal of Colors and Color Differences of Diffusely Illuminated Opaque Materials
  - ASTM D772-86 - Standard Test Method for Evaluating Degree of Flaking (Scaling) of Exterior Paints

## DIMENSIONS AND PROFILE

- 6mm & 14mm Flat Panel Options
- Standard lengths 4' x 16' (1250mm x 5000mm) Length
- MOQ 6000 sqft

## COMPONENTS

- Substrate components to be sourced and supplied by the applicator/fabricator as per testing assembly requirements.

## FINISHES

- Wood Grain
- Metallic
- Solid
- RAL

## WARRANTY

***50 YEAR NO FADE WARRANTY***

# SAGIBOND™ HEXACORE

Introducing SAGIBOND Hexacore by Alucoil, our cutting-edge aluminum honeycomb panel, meticulously enveloped in authentic woodgrain film. Tailored for architectural facades, envelopes, false ceilings, canopies, and interior cladding, Hexacore seamlessly blends strength with elegance.

## 6MM PANEL SPECIFICATION

| | |
|---|---|
| TOTAL THICKNESS | 6 mm |
| EXTERNAL SKIN THICKNESS | 0.7 mm |
| INTERNAL SKIN THICKNESS | 0.5 mm |
| WEIGHT | 4.19 kg/m² |
| STANDARD WIDTH | 1250 mm |
| LENGTH MIN/MAX | 2000 mm<br>14000 mm |
| ALUMINUM ALLOY | 5005 EN 573-3 |
| YIELD STRENGTH | >80 N/mm² |
| ULTIMATE TENSILE STRENGTH | 125<Rm <185 N/mm² |
| ELONGATION | >3% |
| RIGIDITY<br>A) TRANSVERSAL AXIS<br>B) LONGITUDINAL AXIS | A) 2825 kNcm²/m<br>B) 2386 kNcm²/m |
| ACOUSTIC INSULATION | 19.54 dBA |
| THERMAL RESISTANCE | 0.0067 m²K/W |
| ALUMINUM ALLOY | 3005 EN 573-3 |
| CELL SIZE | 1/4" = 6.35 mm |
| FOIL THICKNESS | 50µ |
| COMPRESSIVE STRENGTH | 2.20 MPa DIN 53291 |
| DENSITY | 56 kg/m3 |

## SAGIPER FILM

| | |
|---|---|
| INTERIOR FACE | Pre-lacquered |
| EXTERIOR FACE | 200 µ PVC Decorative Film with Imitation Wood and Metal Printing |
| FILM THICKNESS ECCA T1 | 200 µ |
| TENSILE STRESS | >20 N/mm² DIN53456 |
| INDENTATION HARDNESS TEST DIN 53456 | > 80% |
| ACCELERATED WEATHERING ASTM G155 | No change 4500 test hours |
| WEATHER RESISTANCE DIN 53456 | Maximum allowable total solar radiation is 8>GJ/m2 in the Xenotest 450 grade 4 on the gray scale (DIN EN 20105-A02) corresponding to the requirements RAL-GZ 716/1 part 7 |
| ECCA T8 SALT SPRAY TEST | Class 3, according to table C4 (EN 1396) 1,000 test hours |
| ISO 6270 MOISTURE TEST | No change in 1000 test hours |

**THE FOLDING TEMPERATURE OF AN ACM PANEL MUST EXCEED 10°C TO PREVENT THE FORMATION OF A WHITE LINE UPON FOLDING.**

## POWDER COATED

| | |
|---|---|
| POWDER COATED FINISH | a) PVDF 70% Kynar 500 2 Layers Coastal Primer 31 µ |
| | b) PVDF 70% Kynar 500 3 Layers 37 µ |

# SAGIBOND™ HEXACORE

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## 14MM PANEL SPECIFICATION

| | |
|---|---|
| TOTAL THICKNESS | 14 mm |
| EXTERNAL SKIN THICKNESS | 1.0 mm |
| INTERNAL SKIN THICKNESS | 1.0 mm |
| WEIGHT | 6.75 kg/m² |
| STANDARD WIDTH | 1250 mm |
| LENGTH MIN/MAX | 2000 mm<br>14000 mm |
| ALUMINUM ALLOY<br>A) EXTERNAL SKIN<br>B) INTERNAL SKIN | A) 5005 EN 573-3<br>B) 5754 EN 573-3 |
| YIELD STRENGTH<br>A) EXTERNAL SKIN<br>B) INTERNAL SKIN | A) >80M/mm²<br>B) >220 N/mm² |
| ULTIMATE TENSILE STRENGTH<br>A) EXTERNAL SKIN<br>B) INTERNAL SKIN | A) 125<Rm <185 N/mm²<br>B) >280 N/mm² |
| ELONGATION | >3% |
| RIGIDITY (kNcm²/m)<br>DIN 53293 | TOP VALUE |
| ACOUSTIC INSULATION | 21.56 dBA |
| THERMAL RESISTANCE | 0.0086 m²K/W |
| ALUMINUM ALLOY | 3005 EN 573-3 |
| CELL SIZE | 1/4" = 6.35 mm |
| FOIL THICKNESS | 50µ |
| COMPRESSIVE STRENGTH | 2.20 MPa DIN 53291 |
| DENSITY | 56 kg/m3 |

## SAGIPER FILM

| | |
|---|---|
| INTERIOR FACE | Pre-lacquered |
| EXTERIOR FACE | 200 µ PVC Decorative Film with Imitation Wood and Metal Printing |
| FILM THICKNESS ECCA T1 | 200 µ |
| TENSILE STRESS | >20 N/mm² DIN53456 |
| INDENTATION HARDNESS TEST DIN 53456 | > 80% |
| ACCELERATED WEATHERING ASTM G155 | No change 4500 test hours |
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## POWDER COATED

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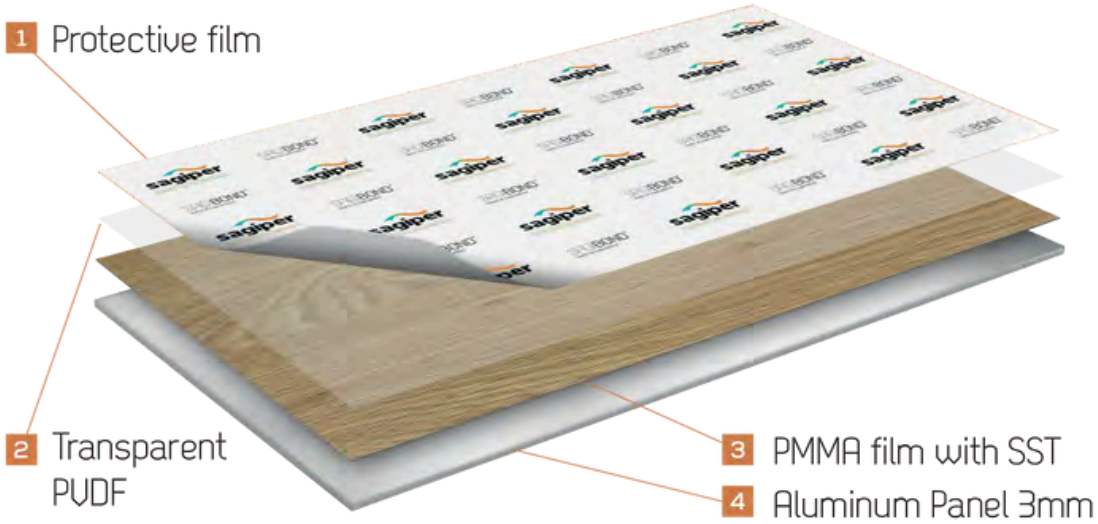
# SAGIBOND™ SLIMSHIELD NC

Introducing SAGIBOND Slimshield NC (Non-combustible) by Alucoil, our premium solid aluminum panel, elegantly encased in authentic woodgrain films. This innovative product provides a completely non-combustible solution, elevating the safety and aesthetic of your upcoming architectural endeavors.




## DIMENSIONS AND PROFILE

- 3mm Flat Aluminum Panel
- Standard lengths
  - 4' x 13' (1250mm x 4000mm) Length
  - 4' x 9.5' (1250mm x 3000mm) Length
  - 4' x 8' (1250mm x 2500mm) Length
  - 3' x 6.5' (1000mm x 2000mm) Length

## COMPONENTS

- Substrate components to be sourced and supplied by the applicator/fabricator as per testing assembly requirements.

## TESTING

- **SAGIPER North America Film Testing:**
  - ASTM D2244-15A - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
  - ASTM D2457-13 - Standard Test Method for Specular Gloss of Plastic Films and Solid Plastics
  - ASTM G155 - Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Material
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## FINISHES

- Wood Grain
- Metallic
- Solid
- RAL

## WARRANTY

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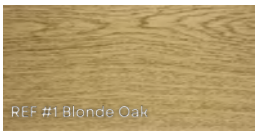
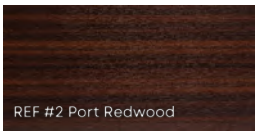
| PANEL SPECIFICATION | |
|---|---|
| PANEL THICKNESS | 3 mm |
| PANEL WEIGHT | 20.25 kg/m2 (17.15lbs) |
| PANEL CORE | Aluminum |
| ALUMINUM THICKNESS | 3 mm |
| STANDARD WIDTH | 1000 mm<br>1250 mm |
| STANDARD LENGTH | 2000 mm<br>3000 mm<br>4000 mm |
| STANDARD ALUMINUM ALLOY | 5005[3] EN 573-3 |

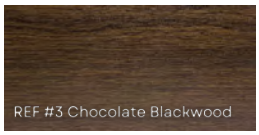
| POWDER COATED | |
|---|---|
| POWDER COATED FINISH | a) PVDF 70% Kynar 500 2 Layers Coastal Primer 31 µ |
| | b) PVDF 70% Kynar 500 3 Layers 37 µ |

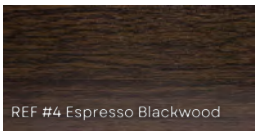
| SAGIPER FILM | |
|---|---|
| INTERIOR FACE | Pre-lacquered |
| EXTERIOR FACE | 200 µ PVC Decorative Film with Imitation Wood and Metal Printing |
| FILM THICKNESS ECCA T1 | 200 µ |
| TENSILE STRESS | >20 N/mm² DIN53456 |
| INDENTATION HARDNESS TEST DIN 53456 | > 80% |
| ACCELERATED WEATHERING ASTM G155 | No change 4500 test hours |
| WEATHER RESISTANCE DIN 53456 | Maximum allowable total solar radiation is 8>GJ/m2 in the Xenotest 450 grade 4 on the gray scale (DIN EN 20105-A02) corresponding to the requirements RAL-GZ 716/1 part 7 |
| ECCA T8 SALT SPRAY TEST | Class 3, according to table C4 (EN 1396) 1,000 test hours |
| ISO 6270 MOISTURE TEST | No change in 1000 test hours |
| **THE FOLDING TEMPERATURE OF AN ACM PANEL MUST EXCEED 10°C TO PREVENT THE FORMATION OF A WHITE LINE UPON FOLDING.** | |

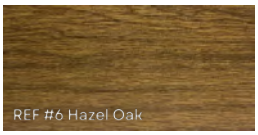
# SAGIBOND™ FINISHES GUIDE

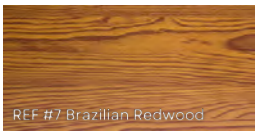


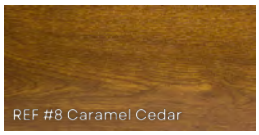



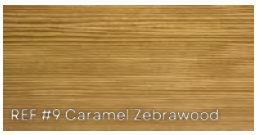



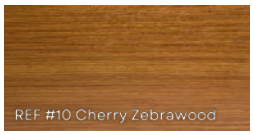



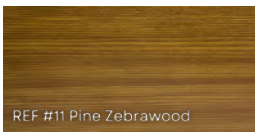


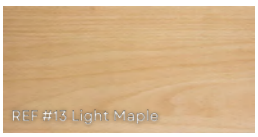



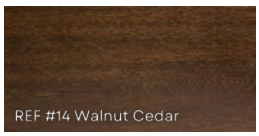



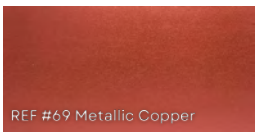



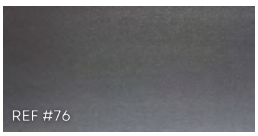



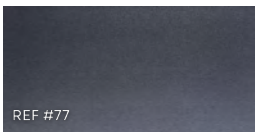



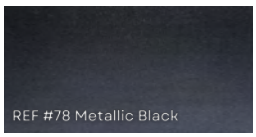


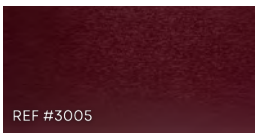



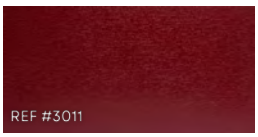


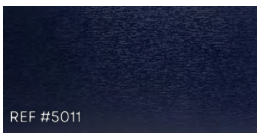



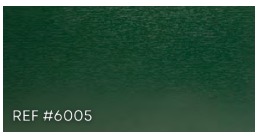



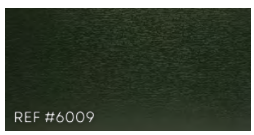



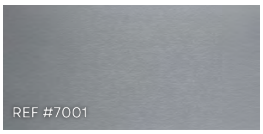



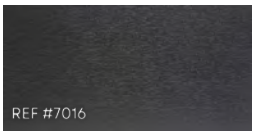



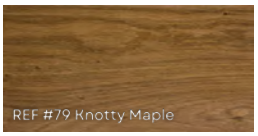



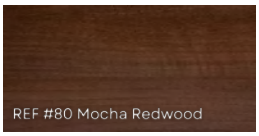



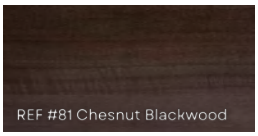



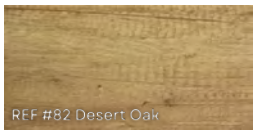



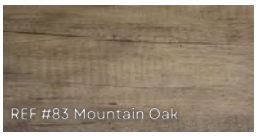



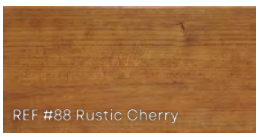


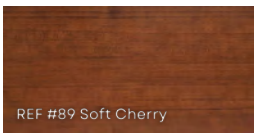



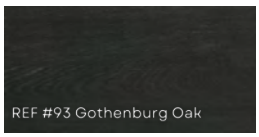



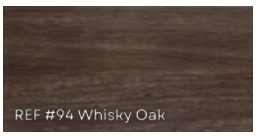

**Note:** Solid powder coated finishes are available upon request.
**Note:** RAL finishes available upon request.

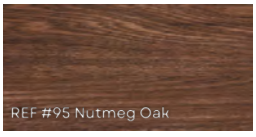
**DISCLAIMER:** *Finishes are for reference only. Please contact our office to obtain physical samples.*

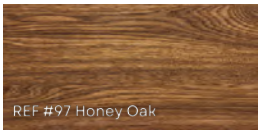
## SCANDINAVIAN ELEMENTS

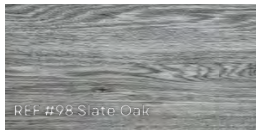
Nordic design roots that provide the natural look and feel of wood.




*Please contact your local distributor or Sagiper NA at 780-482-3445 or toll free 1-866-724-4737 to check current availability and lead times.*

*All finishes are for reference only. Please request physical samples before ordering.*
*info@sagipernorthamerica.com*

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# SAGIPER NORTH AMERICA
# TEST REPORT

**SCOPE OF WORK**
NFPA 285 TESTING ON EXTERIOR NON-LOADING BEARING WALL ASSEMBLY CONTAINING 4MM ACM SAGIBOND PANELS

**REPORT NUMBER**
G105568453SAT-002 R0

**TEST DATE**
07/12/24

**ISSUE DATE**
07/22/24

**PAGES**
50

**DOCUMENT CONTROL NUMBER**
GFT-OP-10c (09/29/20)
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16015 Shady Falls Road
Elmendorf, Texas 78112
Telephone: 210-635-8100
Facsimile: 210-635-8101
www.intertek.com/building

**TEST REPORT FOR SAGIPER NORTH AMERICA**
Report No.: G105568453SAT-002 R0
Date: 07/22/24

REPORT ISSUED TO
**SAGIPER NORTH AMERICA INC.**
18505 105 AVE NW
EDMONTON, AB T5S 0K3
CANADA

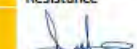
SECTION 1
**SCOPE**

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by Sagiper North America Inc., 18505 105 Ave NW, Edmonton, AB T5S 0K3, Canada, to perform testing in accordance with NFPA 285, *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components*, on their wall assembly containing 4mm ACM Sagibond Panels. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Elmendorf, Texas.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

For INTERTEK B&C:

| | | | |
|---|---|---|---|
| **COMPLETED BY:** | Klarissa Gonzalez | **REVIEWED BY:** | Abel de Hoyos |
| **TITLE:** | Project Engineer | **TITLE:** | Manager – Project Engineering – Fire Resistance |
| **SIGNATURE:** | | **SIGNATURE:** |  |
| **DATE:** | 07/19/24 | **DATE:** | 07/22/24 |

16015 Shady Falls Road
Elmendorf, Texas 78112
Telephone: 210-635-8100
Facsimile: 210-635-8101
www.intertek.com/building



SECTION 3
## CONCLUSION

| Test Requirements | Test Results | PASS/FAIL |
|---|---|---|
| Flames did not reach 10 ft. above the window opening header | Flames did not reach 10 ft above the window opening header | PASS |
| Flames did not reach a lateral distance of 5 ft from the vertical centerline | Flames did not reach a lateral distance of 5 ft from the vertical centerline | PASS |
| Flames did not propagate beyond the limits of the first story test room | Flames did not propagate beyond the limits of the first story test room | PASS |
| No visible flaming in the second story test room | No visible flaming in the second story test room | PASS |
| TCs 11 and 14-17 (1000°F) | TCs 11 and 14-17 did not exceed their 1000°F limit | PASS |
| TCs 18-19, 28, and 31-40 (1000°F) Air cavity temps | TCs 18-19, 28, and 31-40 did not exceed their 1000°F limit | PASS |
| TCs 49-54 (500°F above ambient) 2nd floor temps | TCs 49-54 did not exceed 500°F above their ambient temperatures | PASS |

The assembly described containing 4mm Sagiper Sagibond FR Core ACM Panels **Met** the Conditions of Acceptance of NFPA 285-23.

**SAGIPER NORTH AMERICA INC.**

*ARCHITECTURAL BUILDING PRODUCTS*

SHOP DRAWINGS FOR

# CAN/ULC S-134 TEST WALL


SAGIPER NORTH AMERICA INC.
18505 105 AVENUE NW
EDMONTON, AB CANADA T5S 0K3
PHONE: (780) 238–1667
EMAIL: mitch@sagipernorthamerica.com


TESTING


INTERTEK
16015 SHADY FALLS ROAD
ELMENDORF, TEXAS
78112 U.S.A.
PHONE: (210) 635–8100
FAX: (210) 635–8101
WEBSITE: www.intertek.com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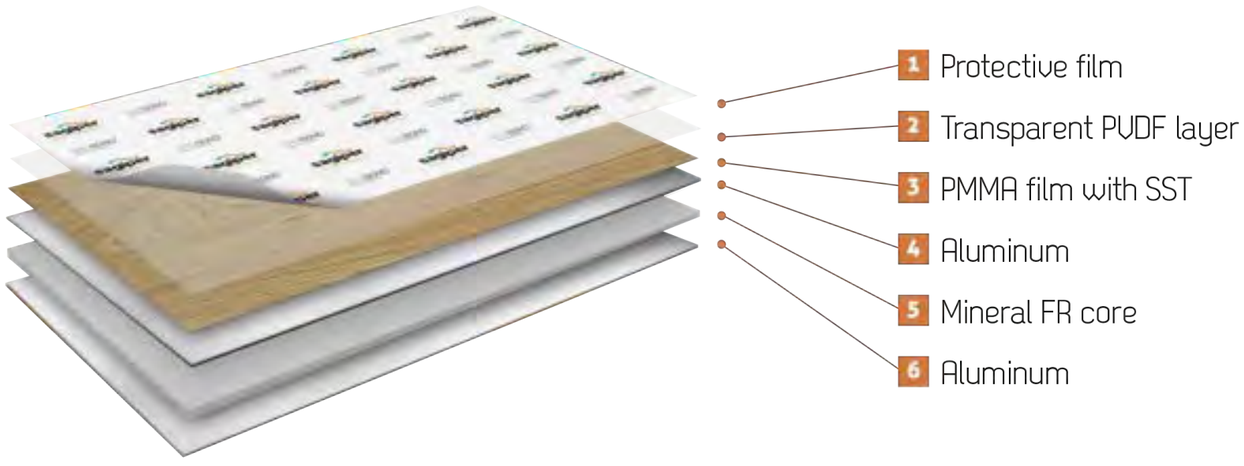
1.2 TYPICAL ATTACHMENT LAYOUT NOTES

D1 DETAILS
D2 DETAILS


## NOTE:

SAGIPER North America exclusively supplies the flat SAGIBOND ACM panel. The depicted system in these shop drawings was utilized to successfully pass the CAN/ULC S-134 fire assembly test. Any framed panel system composed entirely of extruded aluminum elements —panel perimeter frame, tracks, clips, and splines—should be suitable for mounting and installing SAGIBOND. However, these components must be sourced separately.



12:33 PM February 12, 2024

# GENERAL NOTES

1. KPS SCOPE OF WORK:
   SYSTEM A. 4mm SAGIPER FR CORE. SUPPLY AND INSTALL.

   A. SPLINES, EDGINGS AND CLOSURES AS REQUIRED.
   B. MEMBRANE: SOPREMA SOPRASEAL STICK 1100T.
   C. BUILDING WRAP: NONE.
   D. INSULATION: ROCKWOOL MINERAL WOOL.
   E. SUBGIRT: NONE.
   F. THERMAL CLIP: KPS THERMASMART CLIP 2.0.
   G. FLASHINGS: PREFINISHED STEEL FLASHING AS REQUIRED IN DETAILS.

2. FINISHES:

   A. PANEL FACE MATERIAL:
      4mm SAGIPER FR CORE – STANDARD COLOUR

3. FASTENERS:
   A. FASTENER TYPE: SELF–DRILLING CORROSION RESISTANT COATED CARBON STEEL. FASTENER SIZE:No. 10 UNLESS NOTED OTHERWISE.
   B. COATING: MINIMUM 720 HOUR SALT SPRAY CORROSION RESISTANCE BY ASTM B117. NOTE: CADMIUM PLATED FASTENERS ARE NOT ACCEPTABLE.
   C. APPROVED MANUFACTURER: LELAND MASTER DRILLERS WITH JS1000 COATING: #10–16x(LENGTH VARIES PER APPLICATION) SELF DRILL POINT 3.
   D. EXPOSED FASTENERS: No. 12 300 SERIES STAINLESS STEEL UNLESS NOTED OTHERWISE.
   E. CONCRETE FASTENERS: MUNGO MN NYLON PLUG + LELAND MASTER GRIPPER WITH JS1000 COATING:
      MN8x40 WITH #12–11x2".
      ELCO CONFLEX WITH STALGUARD COATING OR 400 SERIES STAINLESS STEEL:
      #14–6x2¼"; LENGTH CAN VARY PER APPLICATION. ¼"ø MIN. 1¾" EMBEDMENT.

4. STRUCTURAL SILICONE: DOW 795 (PANEL FABRICATION AND AS NOTED ON DETAILS).

5. JOINT CAULKING: IF REQUIRED AS SPECIFIED PER ARCHITECTURAL. DOW CWS RECOMMENDED. NOTE SHOP DRAWINGS FOR LOCATIONS.

6. ALL PANEL, SPLINE, CLOSURE, SILL, AND FLASHING SIZES TO BE TAKEN FROM SITE. SHOP DRAWINGS DIMENSIONS FOR REFERENCE ONLY.

7. WEEP HOLES: 1/4" DIAMETER HOLES. 2 HOLES–ONE AT EACH END ON BOTTOM OF PANELS.

8. REFERENCE ARCHITECTURAL DRAWINGS TO CONFIRM ARCHITECTS INTENT FOR ALIGNMENT OF ALL PANELS AND JOINTS BEFORE COMMENCEMENT OF SITE MEASUREMENTS.

9. THESE DRAWINGS SHALL REMAIN THE PROPERTY OF KEITH PANEL SYSTEMS CO. LTD. THIS DOCUMENT SHALL NOT BE REPRODUCED OR USED FOR ADDITIONS OR ALTERATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF KEITH PANEL SYSTEMS CO. LTD.

10. OUR COMPANY POLICY IS TO IMPROVE AS WE PROGRESS, THEREFORE, THE DETAILS IN THIS MANUAL MAY IMPROVE OR CHANGE AS APPROVED BY CONSULTANTS.

11. DETAILS OF ADJACENT WORK ARE SHOWN FOR COMPLETENESS ONLY. THE PROJECT ARCHITECT/ PROJECT ENGINEER/ THE CONTRACTOR SUPPLYING/AND/ OR INSTALLING THE STRUCTURAL SUPPORT IS RESPONSIBLE FOR ITS DESIGN/ INSTALLATION TO ACCOMMODATE ALL LOADS IMPOSED UPON IT BY OUR PRODUCTS. REVISIONS TO ADJACENT WORK ARE NOT SUBSEQUENT TO THE APPROVAL OF THIS DRAWING PACKAGE.

12. OUR ENGINEERING IS LIMITED TO THE LOAD CARRYING COMPONENTS OF THE PANEL SYSTEM AND ITS FASTENERS SHOWN ON THESE SHOP DRAWINGS. THE REVIEW FOR THE LOADS IMPOSED BY KEITH PANEL SYSTEMS PRODUCTS ON THE SUBSTRUCTURE IS THE RESPONSIBILITY OF OTHERS.

13. KEITH PANEL SYSTEMS ASSEMBLY IS NOT DESIGNED TO SUPPORT ANY ADDITIONAL LOADS IMPOSED BY OTHERS; SUCH AS SIGNAGE, WINDOW WASHING EQUIPMENT, ETC...

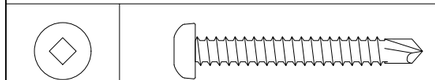
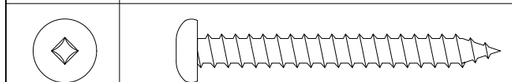
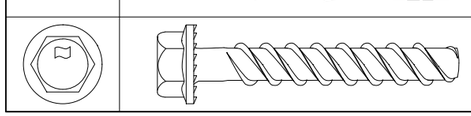
14. INTERACTION BETWEEN DISSIMILAR MATERIALS (IE. ALUMINUM TO GALVANIZED STEEL) MUST BE SEPARATED (IE. SHIMS OR SEPARATION TAPE).

15. ADJACENT SUBTRADES TO LEAVE MINIMUM 6" FLAP OF AIR/VAPOUR BARRIER TO TIE IN WITH KPS. SIMILIARLY KPS WILL LEAVE 6" FLAP TO TIE IN WITH ADJACENT SUBTRADES WHICHEVER COMES FIRST.

16. THE EXTRUSION SHAPES SHOWN IN THESE DRAWINGS ARE GENERIC REPRESENTATIONS OF KPS PROPRIETARY SYSTEMS.

17. IN CASES WHERE BITUMEN MEMBRANES LAP OVER HIGHLY PLASTICIZED VINYL BASED MEMBRANES, SEPARATION TAPE SHALL BE APPLIED BETWEEN THE TWO IN ORDER TO PREVENT PLASTICIZER MIGRATION INTO THE BITUMEN MEMBRANE.

18. ALL STEEL STUD FRAMING AT PANEL SUBSTRATE TO BE MINIMUM 18 GAUGE AT 16" O.C. STUD REQUIRED AT VERTICAL PANEL JOINTS.

| SCHEDULE OF FASTENERS, GRAPHICAL | DESCRIPTION |
|---|---|
|  | METAL TO METAL FASTENER: #10–16x(LENGTH VARIES PER APPLICATON) PAN SELF DRILL POINT 3. |
|  | EXPOSED FASTENERS: #12–11x(LENGTH VARIES PER APPLICATON) PAN TYPE A OR AB POINT. |
| | CONCRETE FASTENER: MN8x40 + #12–11x2" HWH TYPE A POINT. |
|  | HEAVY DUTY CONC. FASTENER: #14–6x(LENGTH VARIES PER APPLICATON) HWH. |

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOUR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.12.24 | ISSUED FOR APPROVAL |

project:
**CAN/ULC S-134 TEST WALL**

project location:

date: February 12, 2024
scale: AS NOTED
drwn by: RED
project no: GL5000

dwg. title:
TYPICAL ATTACHMENT LAYOUT

dwg. no:
1.1

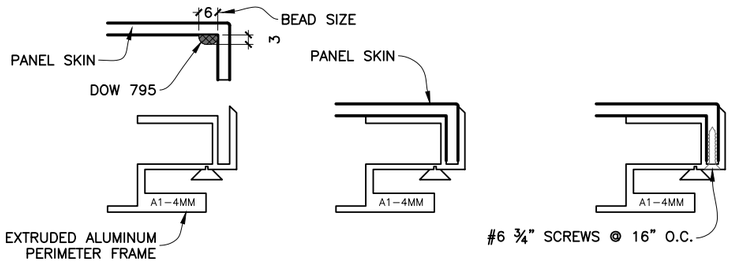
C:\Users\pudd\OneDrive – RED\Project Folder\CAN–ULC Test Wall – G5000\Sagiper\2024–02–12 CAN–ULC S–134 Test Wall.dwg

12:33 PM February 12, 2024

# GENERAL NOTES

## 1. PANEL FABRICATION/MODIFICATION – SYSTEM A PLUS

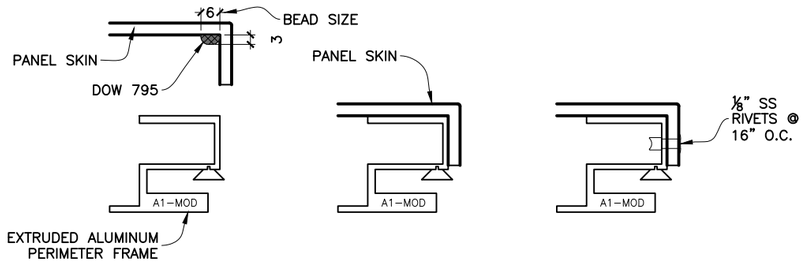
ENSURE ALL SURFACES ARE CLEAN AND DRY. CLEAN SURFACES WITH ALCOHOL WIPE BEFORE APPLYING DOW 795 STRUCTURAL ADHESIVE.




1. APPLY CONTINUOUS BEAD OF DOW 795 TO THE PANEL PERIMETER.
2. MOVE PERIMETER FRAME FIRMLY INTO PLACE.
3. TEMPORARILY SECURE THE PANEL SKIN IN PLACE WITH SCREWS TO HOLD WHILE THE DOW 795 IS CURING.

## 2. PANEL FABRICATION/MODIFICATION – SYSTEM A

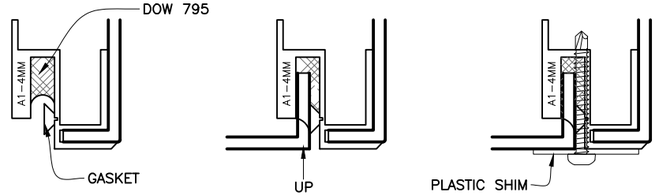
ENSURE ALL SURFACES ARE CLEAN AND DRY. CLEAN SURFACES WITH ALCOHOL WIPE BEFORE APPLYING DOW 795 STRUCTURAL ADHESIVE.




1. APPLY CONTINUOUS BEAD OF DOW 795 TO THE PANEL PERIMETER.
2. MOVE PERIMETER FRAME FIRMLY INTO PLACE.
3. TEMPORARILY SECURE THE PANEL SKIN IN PLACE WITH RIVETS TO HOLD WHILE THE DOW 795 IS CURING.

## 3. TUCK–IN CONNECTION

ENSURE ALL SURFACES ARE CLEAN AND DRY. CLEAN SURFACES WITH ALCOHOL WIPE BEFORE APPLYING DOW 795 STRUCTURAL ADHESIVE.

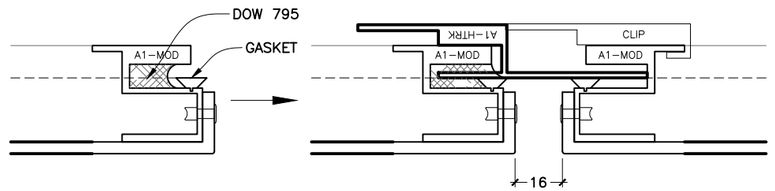



1. USE COMPRESSED CAULKING TUBE NOZZLE TO PLACE BEAD BEHIND GASKET.
2. PUSH CONNECTION PANEL INTO POCKET. PANEL FACE AND EXTRUSION SHOULD BE FLUSH.
3. USE NO.8 X 2" SELF TAPPING SCREW THOUGH PLASTIC SHIM TO HOLD UNTIL CAULKING CURES (72 HRS). REMOVE AFTER.

NOTE:
DETAILS IN THIS PACKAGE INCLUDE "TUCK–IN" TYPE PANEL TO PANEL CONNECTION AT VERTICAL CORNER OR FASCIA/SOFFIT CONDITION. DOW 795 MUST BE PLACED BEHIND GASKET TO ENSURE STRUCTURAL CONNECTION.

## 4 CAULK–IN CONNECTION

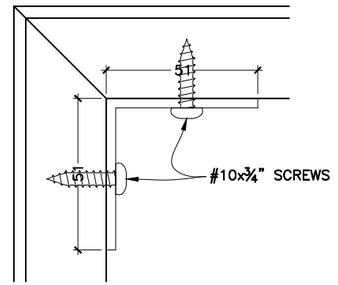
ENSURE ALL SURFACES ARE CLEAN AND DRY. CLEAN SURFACES WITH ALCOHOL WIPE BEFORE APPLYING DOW 795 STRUCTURAL ADHESIVE.

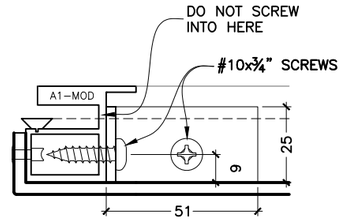



1. USE COMPRESSED CAULKING TUBE NOZZLE TO PLACE BEAD BEHIND GASKET.
2. PUSH PANEL INTO TRACK. SECURE IN PLACE TO ALLOW STRUCTURAL SILICONE TO FULLY CURE.

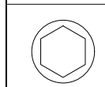
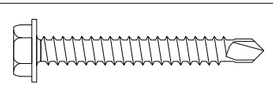
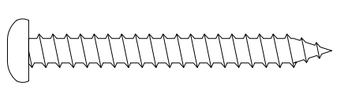
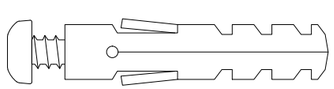
## 5. JOINING PERIMETER FRAME

2"x2"x1" L–SHAPED ALUMINUM CORNER BRACKETS ARE REQUIRED TO JOIN THE PERIMETER EXTRUSION WHEN WELDING IS NOT AN OPTION. ENSURE THAT THE SCREWS DO NOT INTERFERE WITH THE PANEL POCKET

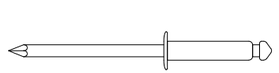
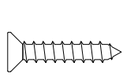



## 6. SCHEDULE OF FASTENERS, GRAPHICAL

| | | DESCRIPTION |
|---|---|---|
|  |  | METAL TO METAL FASTENER: #10–16x(LENGTH VARIES PER APPLICATON) HWH SELF DRILL POINT. (ELCO, ITX BUILDEX, EVOLUTION RUSPERT) |
| |  | EXPOSED FASTENERS: #12–11x(LENGTH VARIES PER APPLICATON) PAN TYPE A OR AB POINT. |
| |  | CONCRETE FASTENER: MUNGO: MN8x40 WITH #12–11x1½" PAN HEAD TYPE A OR AB POINT (PROJECTS IN CANADA ONLY) |

## 6. SCHEDULE OF FASTENERS, GRAPHICAL

| | | DESCRIPTION |
|---|---|---|
| | | CONCRETE FASTENER: ELCO CONFLEX: #14–6x(LENGTH VARIES PER APPLICATON) HWH. HILTI HUS–EZ: ¼"x2⅛". |
| |  | ACM TO PANEL FRAME: ⅛" 300 SERIES STAINLESS STEEL RIVETS |
| |  | ACM TO PANEL FRAME: #6 3/4" 300 SERIES STAINLESS STEEL |

## 7. COMMONLY USED ABBREVIATIONS:

| | | |
|---|---|---|
| & | | AND. |
| @ | | AT. |
| ADP | | ARCHITECTURAL DIMENSION POINT. |
| CLEAR | | CLEARANCE. |
| DEFL | | DEFLECTION. |
| DRIFT | | DRIFT JOINT. |
| DIMPT | or DIM.PT. | DIMENSION POINT. |
| EXP | | EXPANSION JOINT. |
| F.D. | or FD | FRAME DIMENSION. |
| ga. | | GAUGE. |
| GALV. | | GALVANIZED, GALVALUME. |
| MOV | | MOVEMENT. |
| MAX | | MAXIMUM. |
| MIN | | MINIMUM. |
| NIC | or N.I.C. | NOT INCLUDED. |
| NTS | | NOT TO SCALE. |
| O.C. | or OC | ON CENTER. |
| R | | RADIUS. |
| REQ'D | | REQUIRED. |
| R.O. | or RO | ROUGH OPENING. |
| SIM. | or SIM | SIMILAR. |
| STD | | STANDARD. |
| TYP | | TYPICAL. |
| UNO | or U.N.O. | UNLESS NOTED OTHERWISE. |
| W | | WEEP. |
| W/ | | WITH. |

COMPANY ABBREVIATIONS:

| | |
|---|---|
| KPS | KEITH PANEL SYSTEMS CO., LTD. |

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOUR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.12.24 | ISSUED FOR APPROVAL |

project:
**CAN/ULC S-134 TEST WALL**

project location:

date: **February 12, 2024**
scale: **AS NOTED**
drwn by: **RED**
project no: **GL5000**

dwg. title:
TYPICAL ATTACHMENT LAYOUT

dwg. no:
1.2

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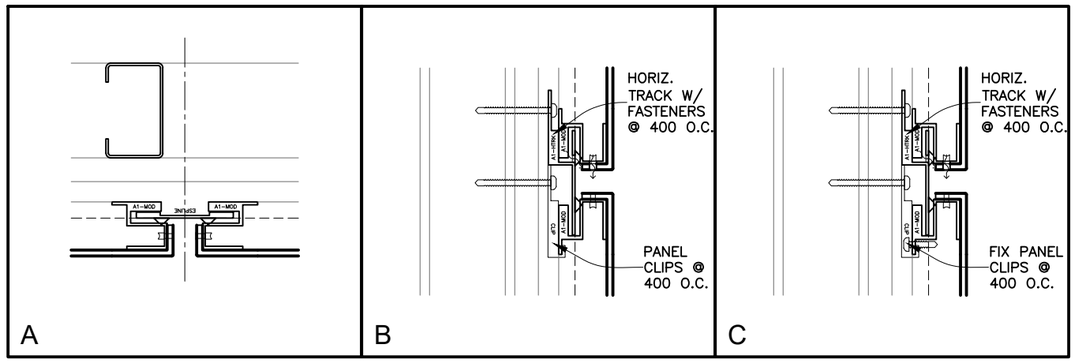
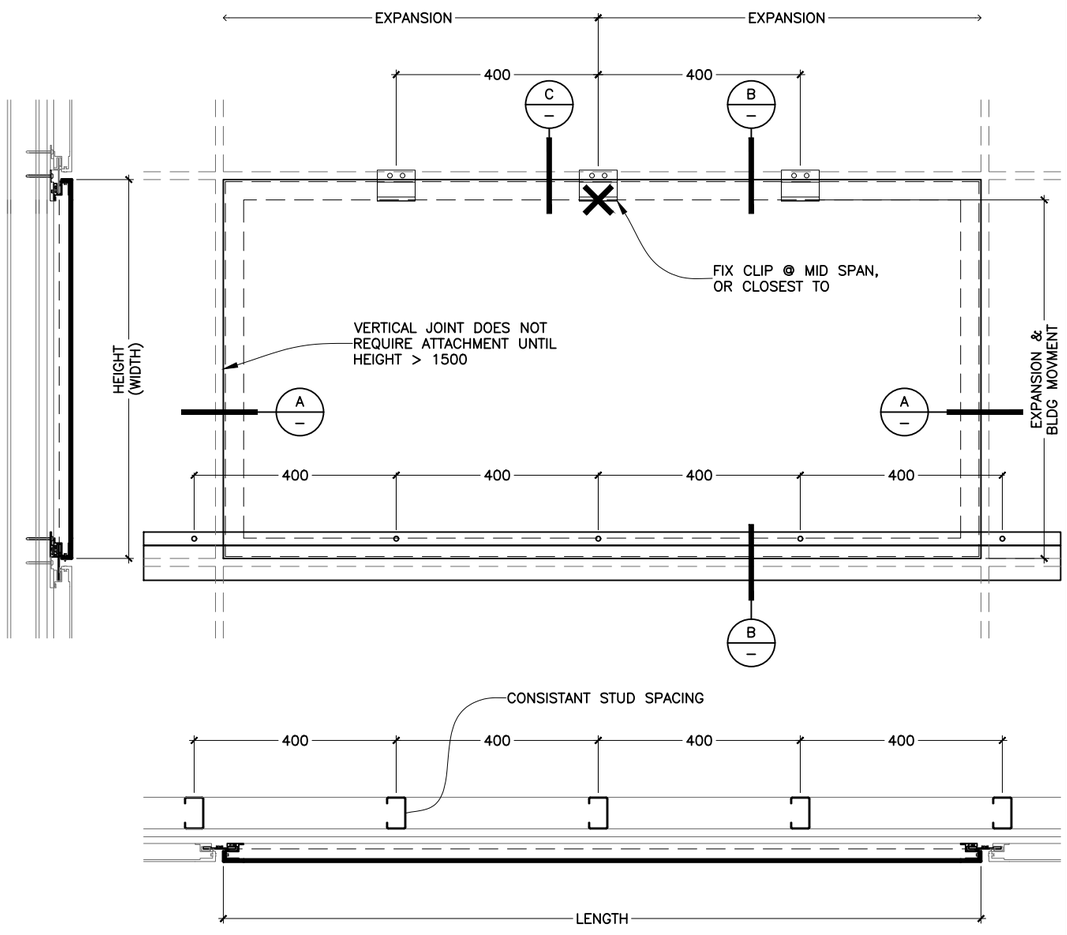
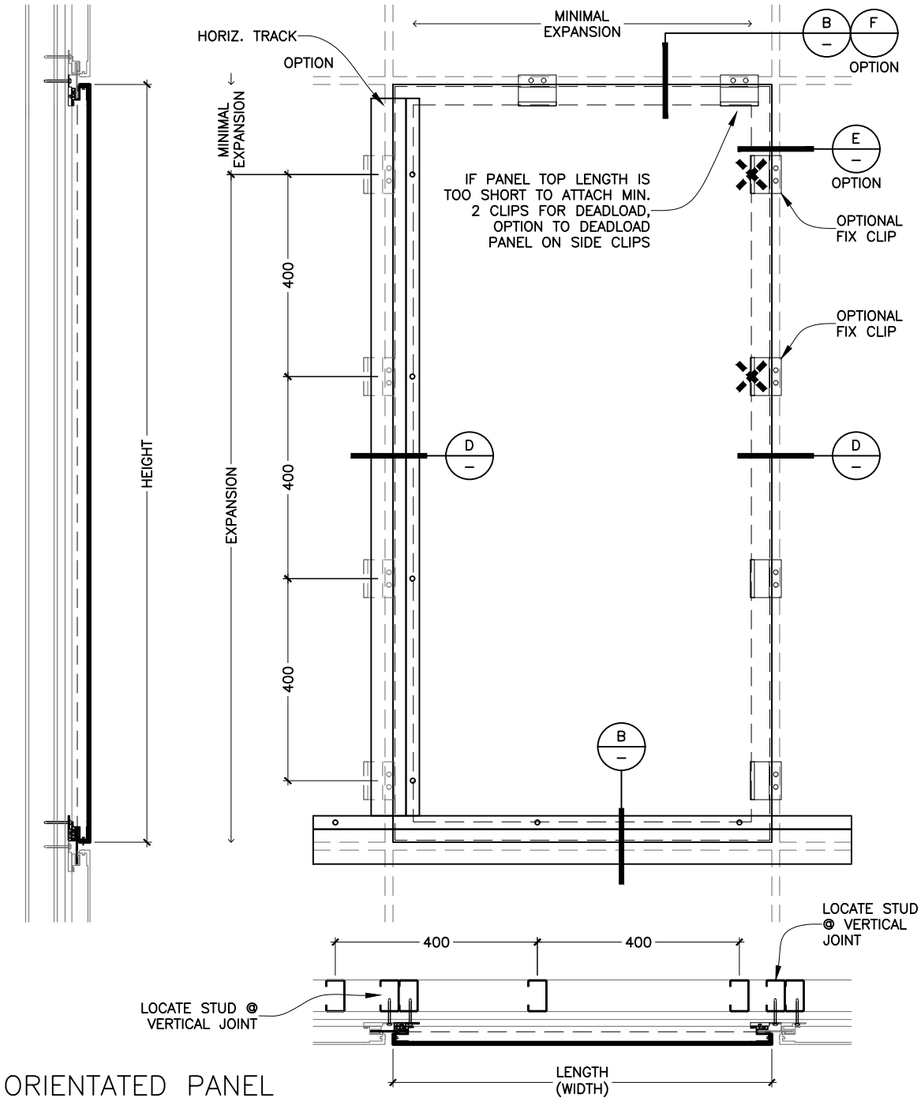
# TYPICAL ATTACHMENT LAYOUT




## HORIZONTAL ORIENTATED PANEL




## VERTICAL ORIENTATED PANEL

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOUR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.12.24 | ISSUED FOR APPROVAL |

project:

**CAN/ULC S-134 TEST WALL**

project location:

date: **February 12, 2024**
scale: **AS NOTED**
drwn by: **RED**
project no: **GL5000**

dwg. title:
GENERAL NOTES

dwg. no:
1.3

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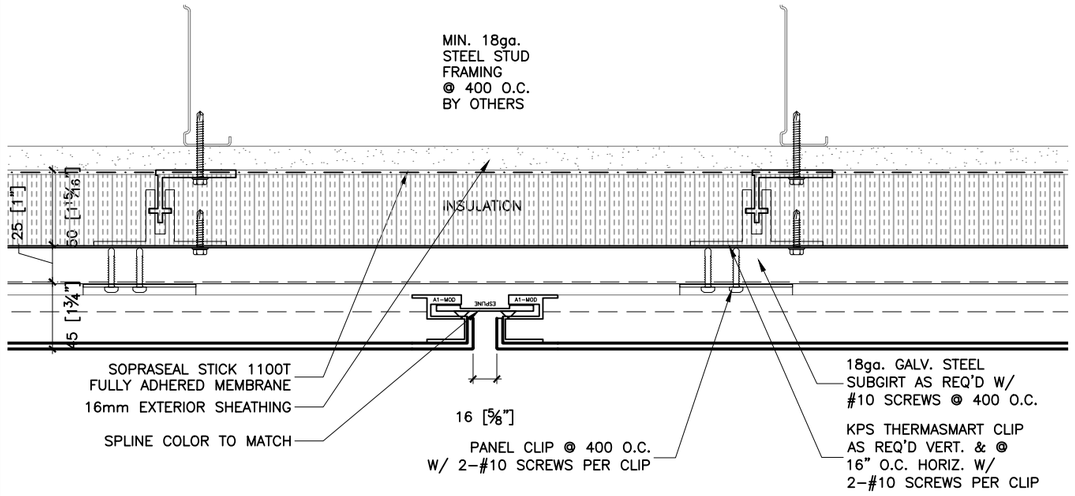
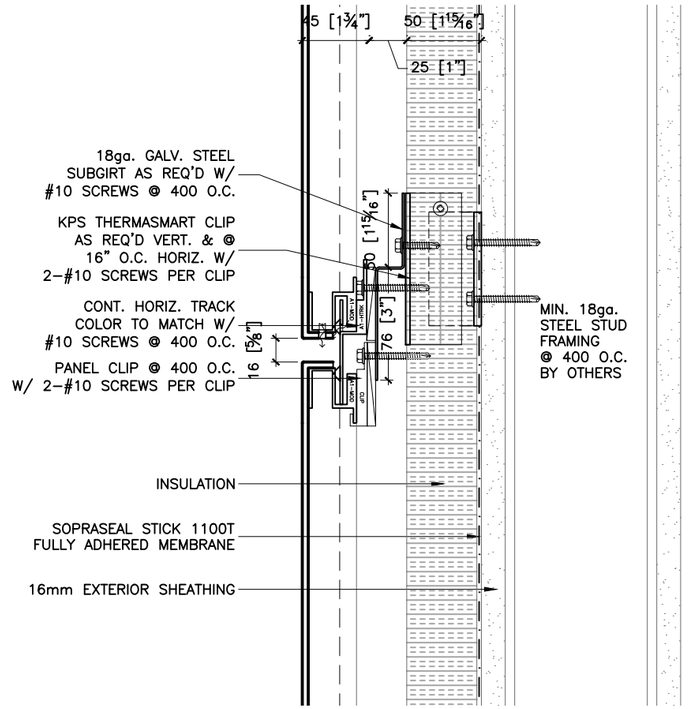
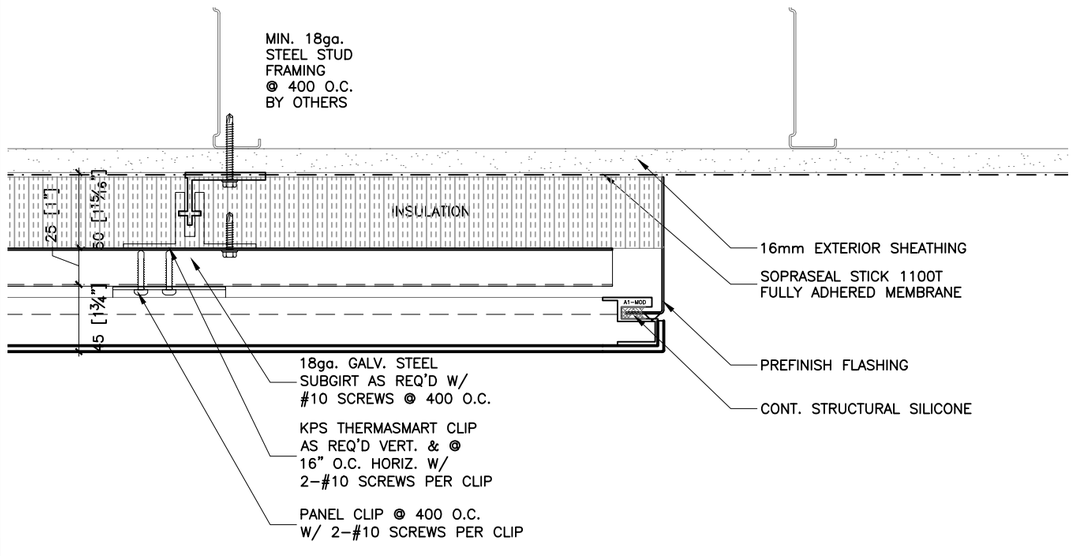


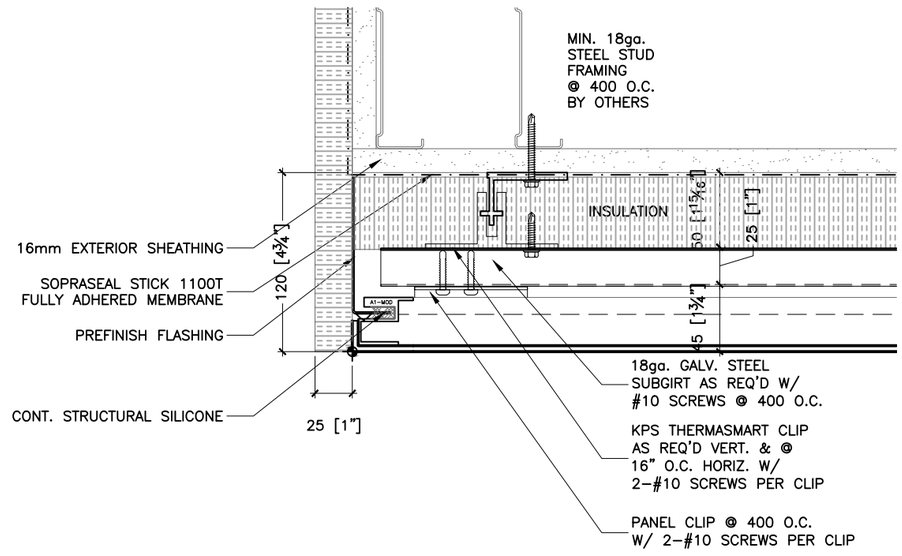

1 D1 **VERTICAL JOINT**
SCALE 1:4 ARCH. REF.: N/A




2 D1 **HORIZONTAL JOINT**
SCALE 1:4 ARCH. REF.: N/A




3 D1 **PLAN DETAIL**
SCALE 1:4 ARCH. REF.: N/A




4 D1 **PLAN DETAIL**
SCALE 1:4 ARCH. REF.: N/A

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOUR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.12.24 | ISSUED FOR APPROVAL |

project:
**CAN/ULC S-134 TEST WALL**

project location:

date: **February 12, 2024**
scale: **AS NOTED**
drwn by: **RED**
project no: **GL5000**

dwg. title:
DETAILS

dwg. no:
D1

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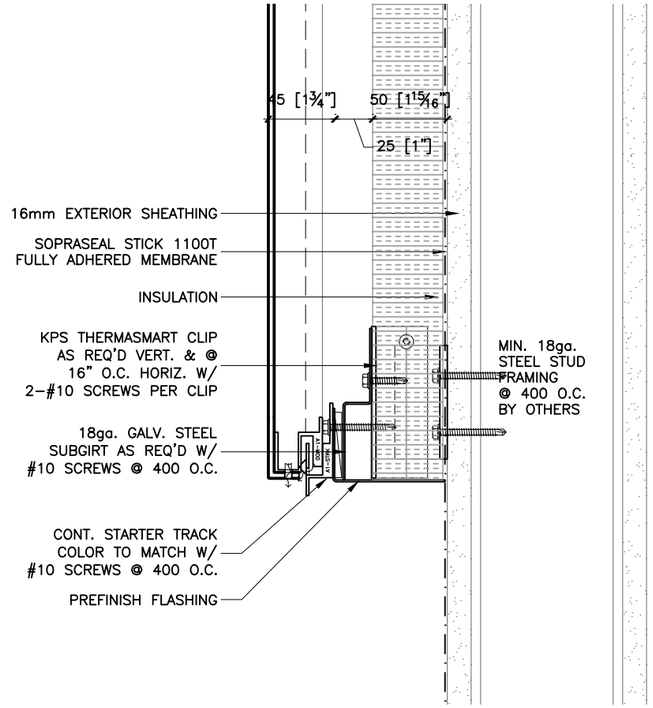
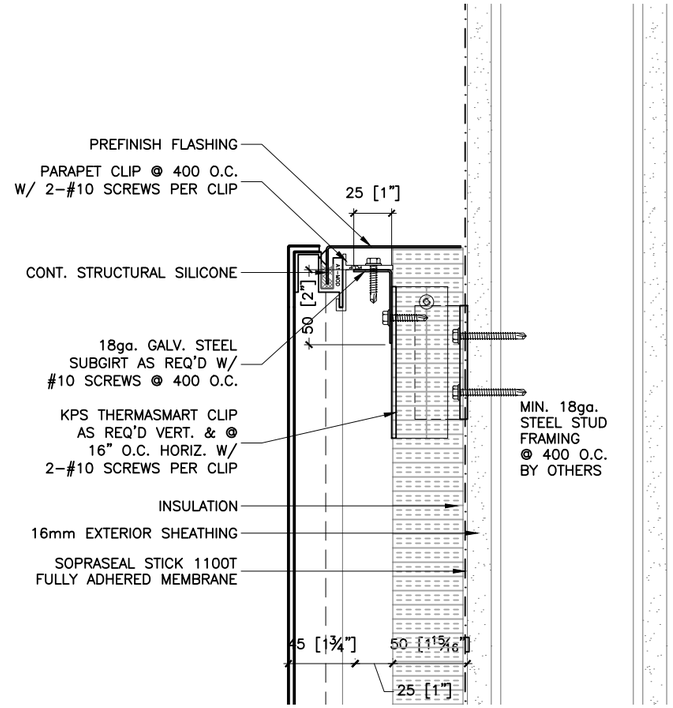



1 D2 **BASE SECTION DETAIL**
SCALE 1:4 ARCH. REF.: N/A




2 D2 **TOP SECTION DETAIL**
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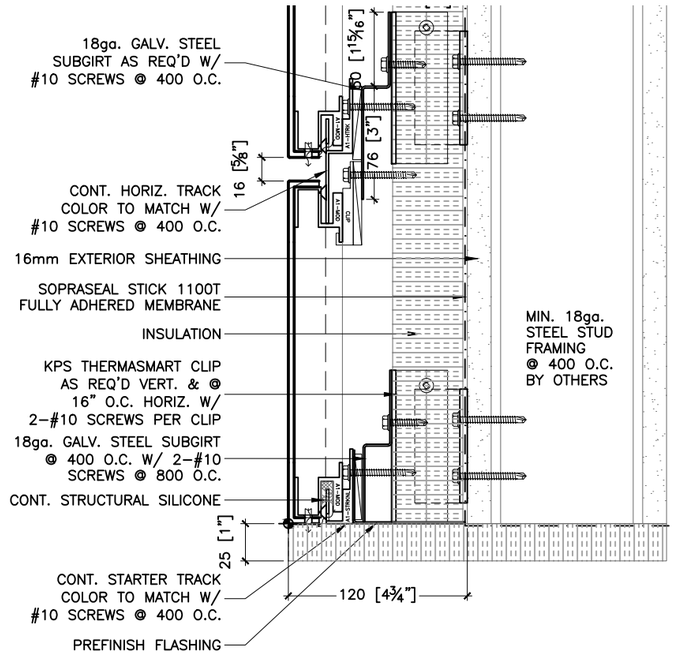
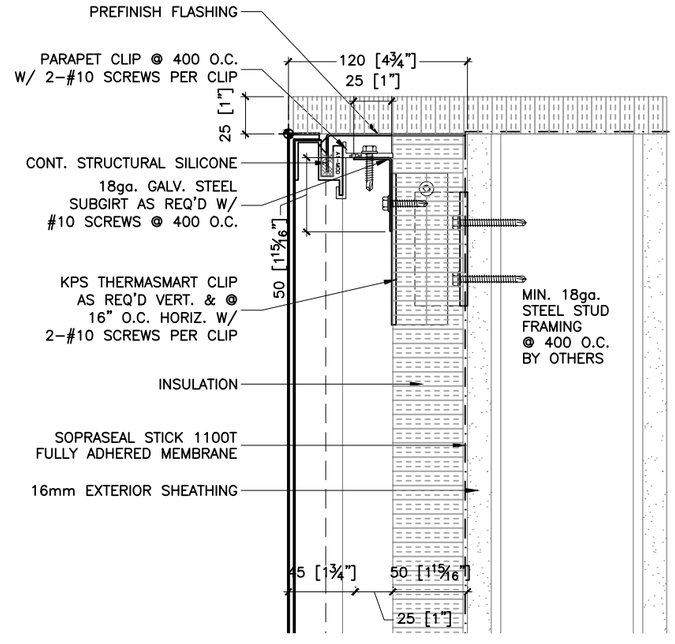



3 D2 **SECTION DETAIL**
SCALE 1:4 ARCH. REF.: N/A




4 D2 **SECTION DETAIL**
SCALE 1:4 ARCH. REF.: N/A

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOUR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.12.24 | ISSUED FOR APPROVAL |

project:
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project location:

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scale: **AS NOTED**
drwn by: **RED**
project no: **GL5000**

dwg. title:
DETAILS

dwg. no:
D2

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**SAGIPER NORTH AMERICA INC.**

***ARCHITECTURAL BUILDING PRODUCTS***

SHOP DRAWINGS FOR **INTERTEK FACILITY, 16015 SHADY FALLS ROAD, ELMENDORF, TEXAS 78112 U.S.A**

# SAGIPER NORTH AMERICA NFPA 285 TEST

TESTING


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FAX: (210) 635–8101
WEBSITE: www.intertek.com

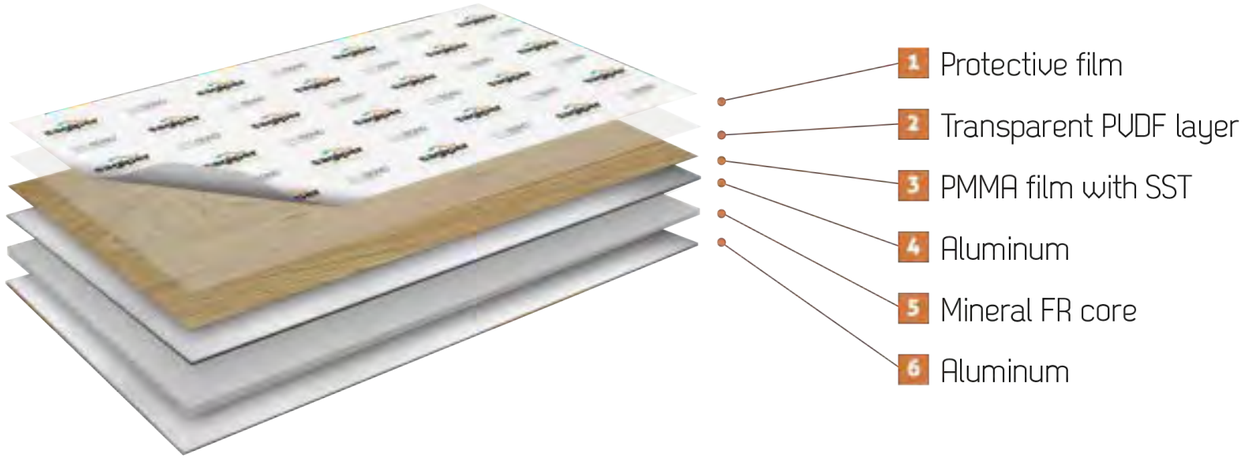

TABLE OF CONTENTS


1.1 GENERAL NOTES
1.2 TYPICAL ATTACHMENT LAYOUT NOTES

D1 DETAILS
D2 DETAILS
D3 DETAILS


## NOTE:

SAGIPER North America exclusively supplies the flat SAGIBOND ACM panel. The depicted system in these shop drawings was utilized to successfully pass the NFPA 285 fire assembly test. Any framed panel system composed entirely of extruded aluminum elements—panel perimeter frame, tracks, clips, and splines—should be suitable for mounting and installing SAGIBOND. However, these components must be sourced separately.



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# GENERAL NOTES

1. KPS SCOPE OF WORK:
   SYSTEM A. 4mm SAGIPER FR CORE. SUPPLY AND INSTALL.

   A. SPLINES, EDGINGS AND CLOSURES AS REQUIRED.
   B. MEMBRANE: SOPREMA SOPRASEAL STICK 1100T.
   C. BUILDING WRAP: NONE.
   D. INSULATION: ROCKWOOL MINERAL WOOL.
   E. SUBGIRT: NONE.
   F. THERMAL CLIP: KPS THERMASMART CLIP 2.0.
   G. FLASHINGS: PREFINISHED STEEL FLASHING AS REQUIRED IN DETAILS.

2. FINISHES:

   A. PANEL FACE MATERIAL:
      4mm SAGIPER FR CORE – STANDARD COLOR

   B. PANEL SYSTEM COMPONENTS:
      EXPOSED – COLOUR TO MATCH PANEL FACE, DURACRON
      HIDDEN – MILL FINISH

3. FASTENERS:
   A. FASTENER TYPE:
      SELF–DRILLING CORROSION RESISTANT COATED CARBON STEEL.
      No. 10 UNLESS NOTED OTHERWISE.
   B. COATING:
      MINIMUM 720 HOUR SALT SPRAY CORROSION RESISTANCE BY ASTM B117. NOTE: CADMIUM PLATED FASTENERS ARE NOT ACCEPTABLE.
   C. STEEL STUD WALL (METAL TO METAL) FASTENERS:
      ELCO DRILFLEX WITH STALGUARD COATING:
      #10–16x1½" HEX WASHER HEAD WITH TY–3 POINT DRIL–FLEX(EAF460)
      #10–16x2½" HEX WASHER HEAD WITH TY–3 POINT DRIL–FLEX(EAF480)
      ITW BUILDEX TEKS WITH CLIMASEAL COATING:
      #10–16x(LENGTH VARIES PER APPLICATION) HEX WASHER HEAD TEKS 3 DRILL POINT.
      EVOLUTION FASTENERS #10x16x(LENGTH AS NOTED) WITH RUSPERT COATING
   D. EXPOSED FASTENERS:
      No. 12 300 SERIES STAINLESS STEEL X LENGTH AS NOTED.
   E. CONCRETE FASTENERS:
      HILTI HUS–EZ ¼"x2⅜"
      ELCO CONFLEX #14–6x2¼" MIN. 1¾" EMBEDMENT. 1½" MIN. EDGE DISTANCE, 1½" SPACING

4. STRUCTURAL SILICONE: DOW 795 (PANEL FABRICATION AND AS NOTED ON DETAILS).

5. JOINT CAULKING: IF REQUIRED AS SPECIFIED PER ARCHITECTURAL. DOW CWS RECOMMENDED. NOTE SHOP DRAWINGS FOR LOCATIONS.

6. ALL PANEL, SPLINE, CLOSURE, SILL, AND FLASHING SIZES TO BE TAKEN FROM SITE. SHOP DRAWINGS DIMENSIONS FOR REFERENCE ONLY.

7. WEEP HOLES: 1/4" DIAMETER HOLES. 2 HOLES–ONE AT EACH END ON BOTTOM OF PANELS.

8. REFERENCE ARCHITECTURAL DRAWINGS TO CONFIRM ARCHITECTS INTENT FOR ALIGNMENT OF ALL PANELS AND JOINTS BEFORE COMMENCEMENT OF SITE MEASUREMENTS.

9. THESE DRAWINGS SHALL REMAIN THE PROPERTY OF KEITH PANEL SYSTEMS CO. LTD. THIS DOCUMENT SHALL NOT BE REPRODUCED OR USED FOR ADDITIONS OR ALTERATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF KEITH PANEL SYSTEMS CO. LTD.

10. OUR COMPANY POLICY IS TO IMPROVE AS WE PROGRESS, THEREFORE, THE DETAILS IN THIS MANUAL MAY IMPROVE OR CHANGE AS APPROVED BY CONSULTANTS.

11. DETAILS OF ADJACENT WORK ARE SHOWN FOR COMPLETENESS ONLY. THE PROJECT ARCHITECT/ PROJECT ENGINEER/ THE CONTRACTOR SUPPLYING/AND/ OR INSTALLING THE STRUCTURAL SUPPORT IS RESPONSIBLE FOR ITS DESIGN/ INSTALLATION TO ACCOMMODATE ALL LOADS IMPOSED UPON IT BY OUR PRODUCTS. REVISIONS TO ADJACENT WORK ARE NOT SUBSEQUENT TO THE APPROVAL OF THIS DRAWING PACKAGE.

12. OUR ENGINEERING IS LIMITED TO THE LOAD CARRYING COMPONENTS OF THE PANEL SYSTEM AND ITS FASTENERS SHOWN ON THESE SHOP DRAWINGS. THE REVIEW FOR THE LOADS IMPOSED BY KEITH PANEL SYSTEMS PRODUCTS ON THE SUBSTRUCTURE IS THE RESPONSIBILITY OF OTHERS.

13. KEITH PANEL SYSTEMS ASSEMBLY IS NOT DESIGNED TO SUPPORT ANY ADDITIONAL LOADS IMPOSED BY OTHERS; SUCH AS SIGNAGE, WINDOW WASHING EQUIPMENT, ETC...

14. INTERACTION BETWEEN DISSIMILAR MATERIALS (IE. ALUMINUM TO GALVANIZED STEEL) MUST BE SEPARATED (IE. SHIMS OR SEPARATION TAPE).

15. ADJACENT SUBTRADES TO LEAVE MINIMUM 6" FLAP OF AIR/VAPOUR BARRIER TO TIE IN WITH INSTALLER. SIMILIARLY, INSTALLER WILL LEAVE 6" FLAP TO TIE IN WITH ADJACENT SUBTRADES WHICHEVER COMES FIRST.

16. THE EXTRUSION SHAPES SHOWN IN THESE DRAWINGS ARE GENERIC REPRESENTATIONS OF KPS PROPRIETARY SYSTEMS.

17. IN CASES WHERE BITUMEN MEMBRANES LAP OVER HIGHLY PLASTICIZED VINYL BASED MEMBRANES, SEPARATION TAPE SHALL BE APPLIED BETWEEN THE TWO IN ORDER TO PREVENT PLASTICIZER MIGRATION INTO THE BITUMEN MEMBRANE.

18. ALL STEEL STUD FRAMING AT PANEL SUBSTRATE TO BE MINIMUM 18 GAUGE AT 16" O.C. STUD REQUIRED AT VERTICAL PANEL JOINTS.

19. PANEL FABRICATION WILL BE PERFORMED IN KPS SHOP WHENEVER POSSIBLE.

20. UNDER SOME CONDITIONS PANELS MAY BE REQUIRED TO BE MODIFIED OR FABRICATED IN THE FIELD. IN THESE CASES, THE INSTALLER MUST FOLLOW THE INSTRUCTIONS ON GENERAL NOTES PAGE 1.2 AND NOTIFY KPS OF ANY CHANGE TO THE PANEL SIZE, CONSTRUCTION, OR ATTACHMENT.

21. NOTE THAT FREQUENCY AND METHOD OF ATTACHMENT SHOWN ON THESE DRAWINGS MUST BE STRICTLY ADHERED TO. ANY DEVIATION FROM THESE DRAWINGS COULD RESULT IN FAILURE OF ATTACHMENT WHICH CAN RESULT IN DAMAGE TO PROPERTY, OR SERIOUS INJURY. IF KPS IS NOT COMPLETING THE INSTALLATION WITH OWN FORCES, KPS TAKES NO RESPONSIBILITY FOR DAMAGES RESULTING FROM FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS AND DETAILS CONTAINED HEREIN.

22. WHEN IN DOUBT OR DRAWINGS ARE UNCLEAR, ASSUME THAT ATTACHMENT FREQUENCY IS 16" O.C.

23. ALL COMPONENTS NOTED AS "BY OTHERS" ARE NOT INCLUDED IN STRUCTURAL ENGINEERING DESIGN REVIEW AND OR CALCULATIONS. ENGINEERING DESIGN REVIEW FOR THOSE ITEMS (WHICH MAY INCLUDE THERMALLY IMPROVED ATTACHMENT CLIPS,SUB–GIRT SUPPORTS, STUD FRAMING, SHEATHING OR STRUCTURAL STEEL) IS THE RESPONSIBILITY OF OTHERS AND HAS NOT BEEN INCLUDED IN THE ENGINEERING REVIEW PROVIDED BY THE PROFESSIONAL ENGINEER STAMPING THESE DRAWINGS. NEITHER KPS, NOR THE PROFESSIONAL ENGINEER STAMPING THESE DRAWINGS ASSUME LAIBILITY FOR ANY ITEMS OR SCOPE OF WORK NOTED BY OTHERS.

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.27.24 | ISSUED FOR APPROVAL |

project:
**SAGIPER NORTH AMERICA NFPA 285 TEST**

project location:
INTERTEK FACILITY, 16015 SHADY FALLS ROAD, ELMENDORF, TEXAS 78112 U.S.A

date: February 27, 2024
scale: AS NOTED
drwn by: KPS
project no: GL5000

dwg. title:
GENERAL NOTES

dwg. no:
1.1

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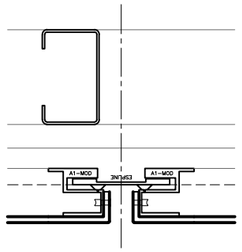
# TYPICAL ATTACHMENT LAYOUT

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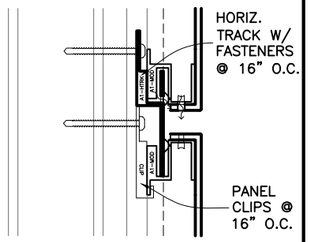


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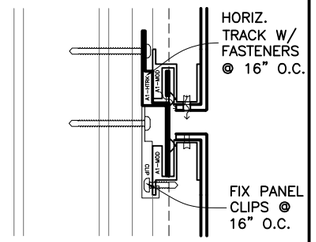


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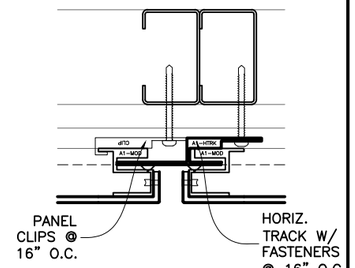


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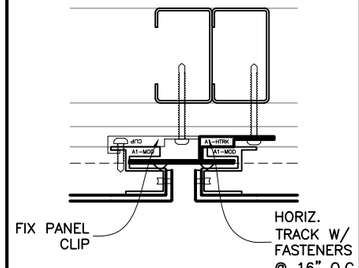


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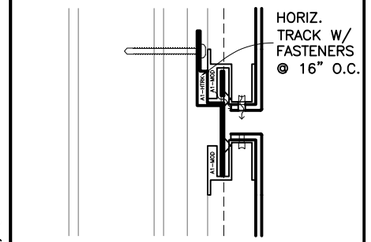


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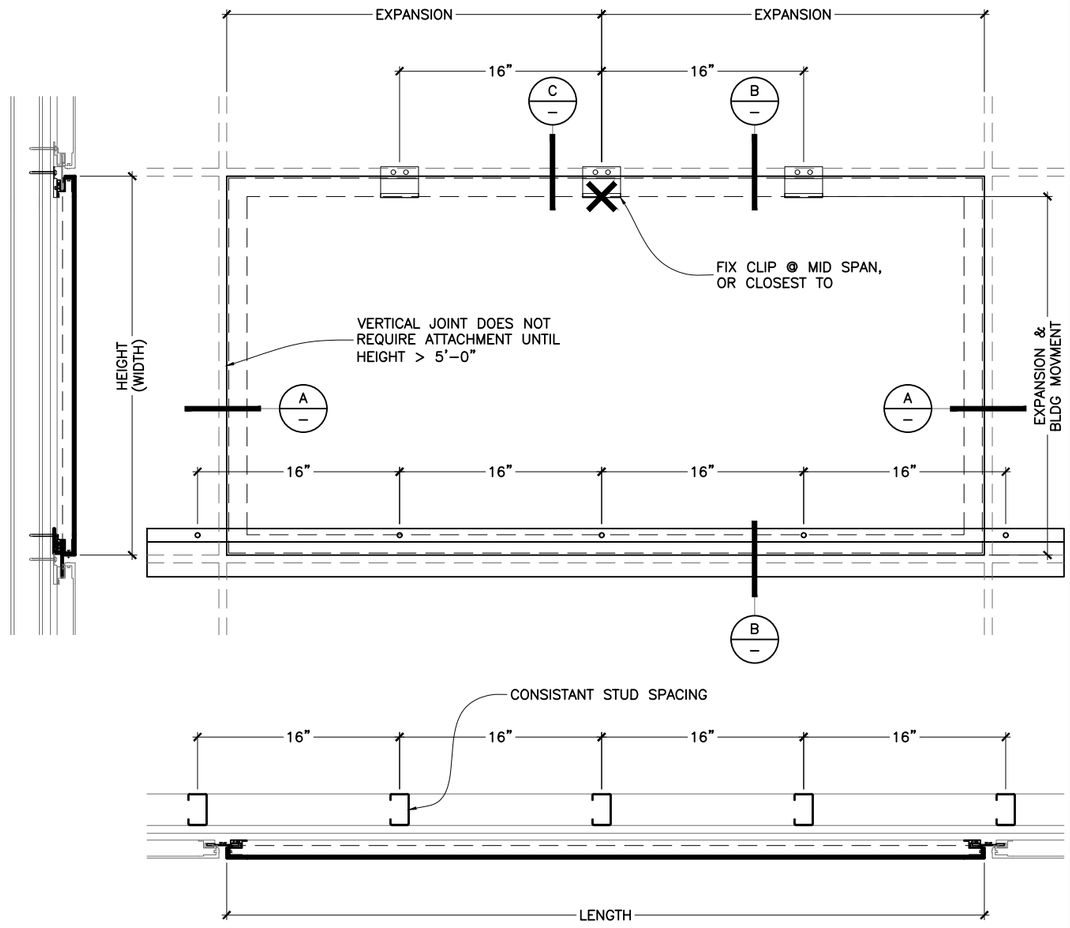
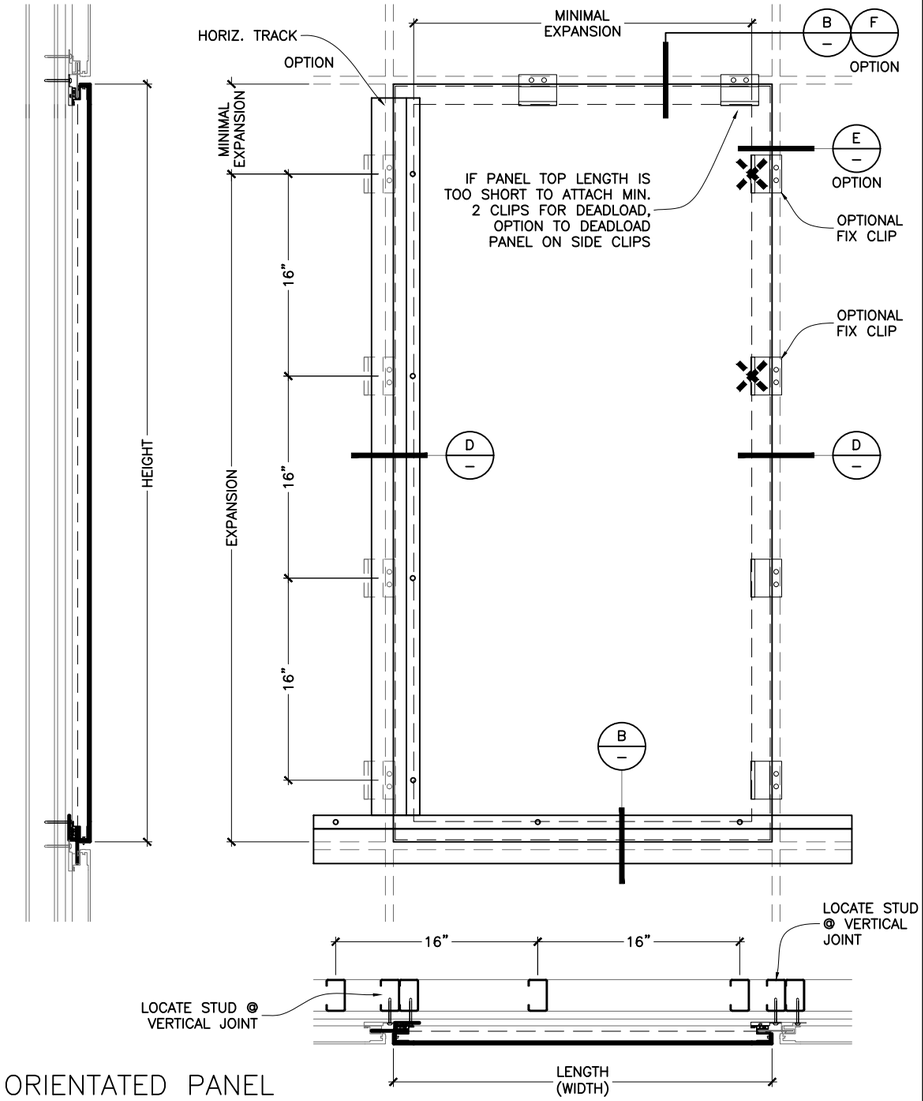



HORIZONTAL ORIENTATED PANEL




VERTICAL ORIENTATED PANEL

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.27.24 | ISSUED FOR APPROVAL |

project:
**SAGIPER NORTH AMERICA NFPA 285 TEST**

project location:
INTERTEK FACILITY, 16015 SHADY FALLS ROAD, ELMENDORF, TEXAS 78112 U.S.A

date: February 27, 2024
scale: AS NOTED
drwn by: KPS
project no: GL5000

dwg. title:
TYPICAL ATTACHMENT LAYOUT NOTES

dwg. no:
1.2

12:27 PM February 27, 2024

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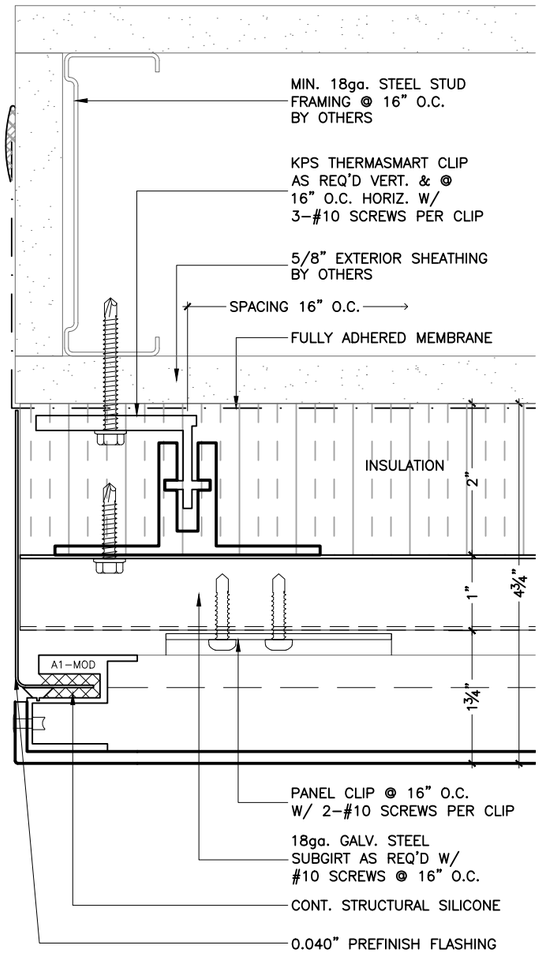
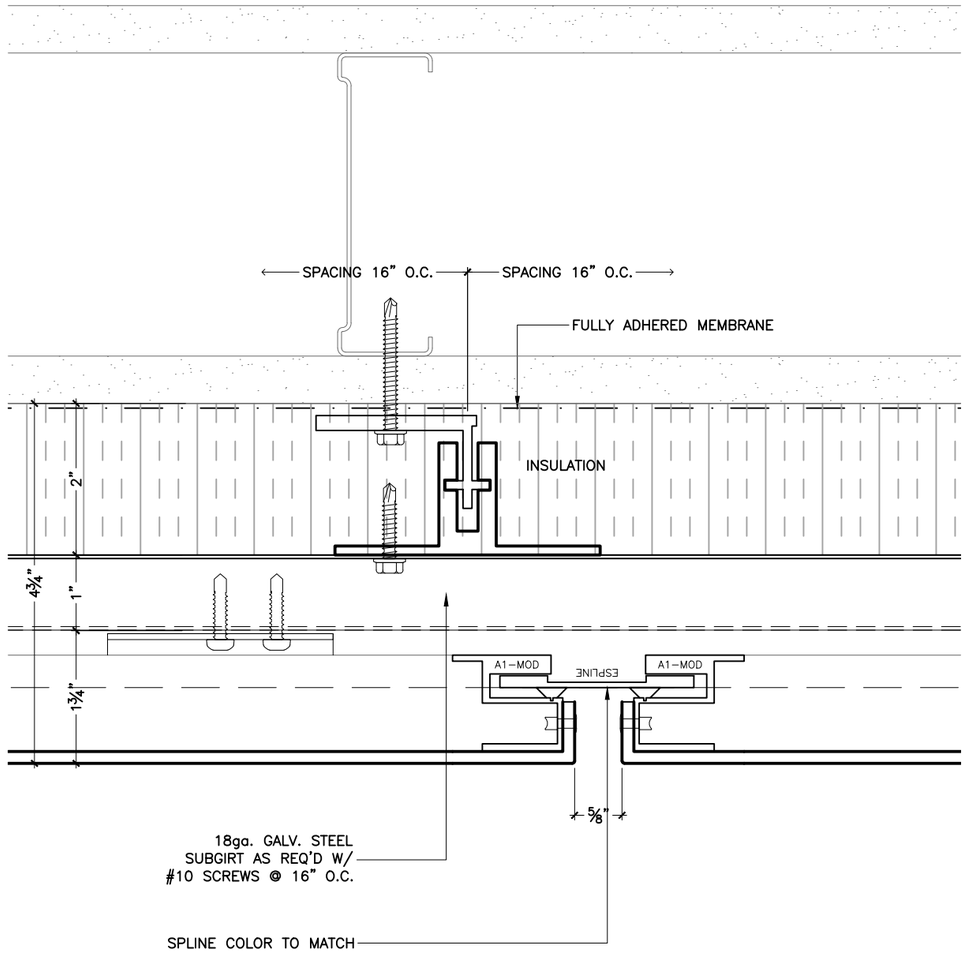



1 D1 **PLAN DETAIL**
SCALE 6"=1'–0" ARCH REF.: N/A KPS REF.: 3/3.1

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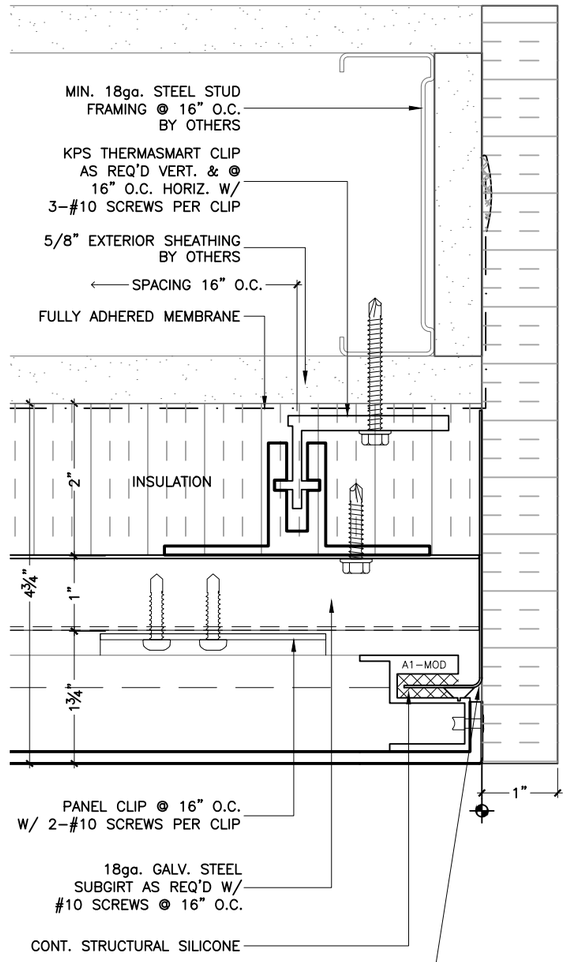


3 D1 **PLAN DETAIL**
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ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.27.24 | ISSUED FOR APPROVAL |

project.
**SAGIPER NORTH AMERICA NFPA 285 TEST**

project location:
INTERTEK FACILITY, 16015 SHADY FALLS ROAD, ELMENDORF, TEXAS 78112 U.S.A

date: February 27, 2024
scale: AS NOTED
drwn by: KPS
project no: GL5000

dwg. title:
DETAILS

dwg. no:
D1

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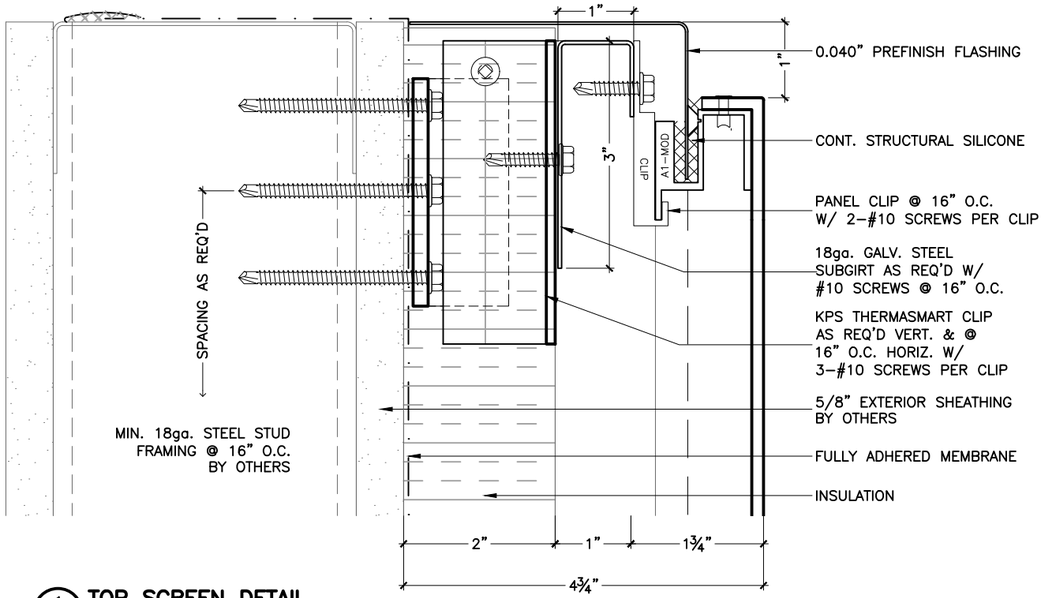


1 D2 **TOP SCREEN DETAIL**
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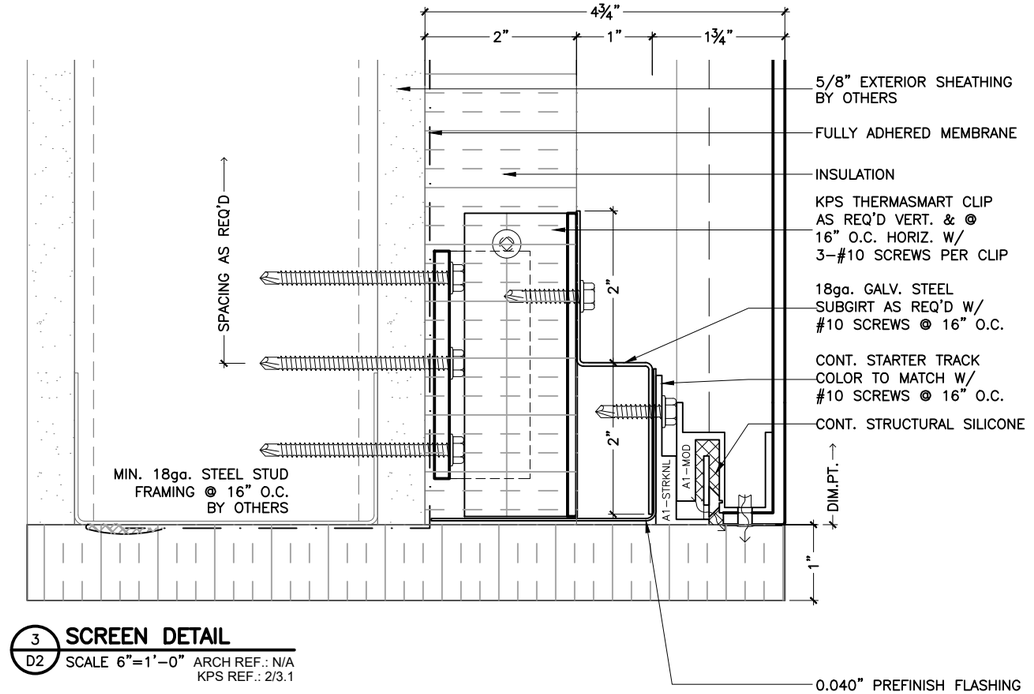
KPS REF.: 2/3.1

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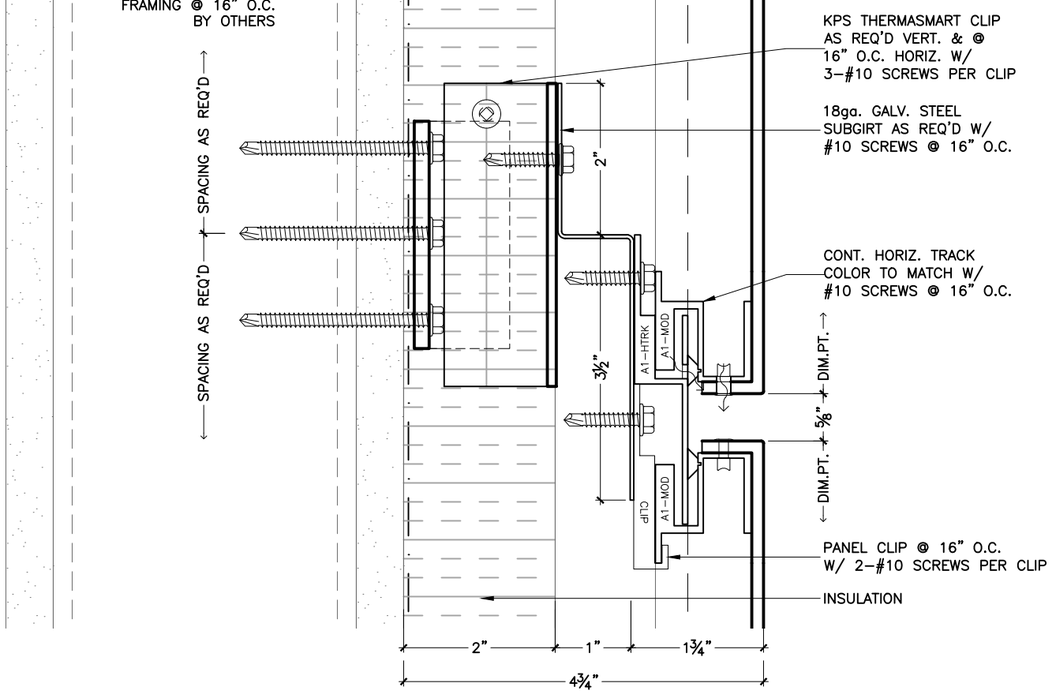
KPS REF.: 2/3.1




2 D2 **HORIZONTAL JOINT**
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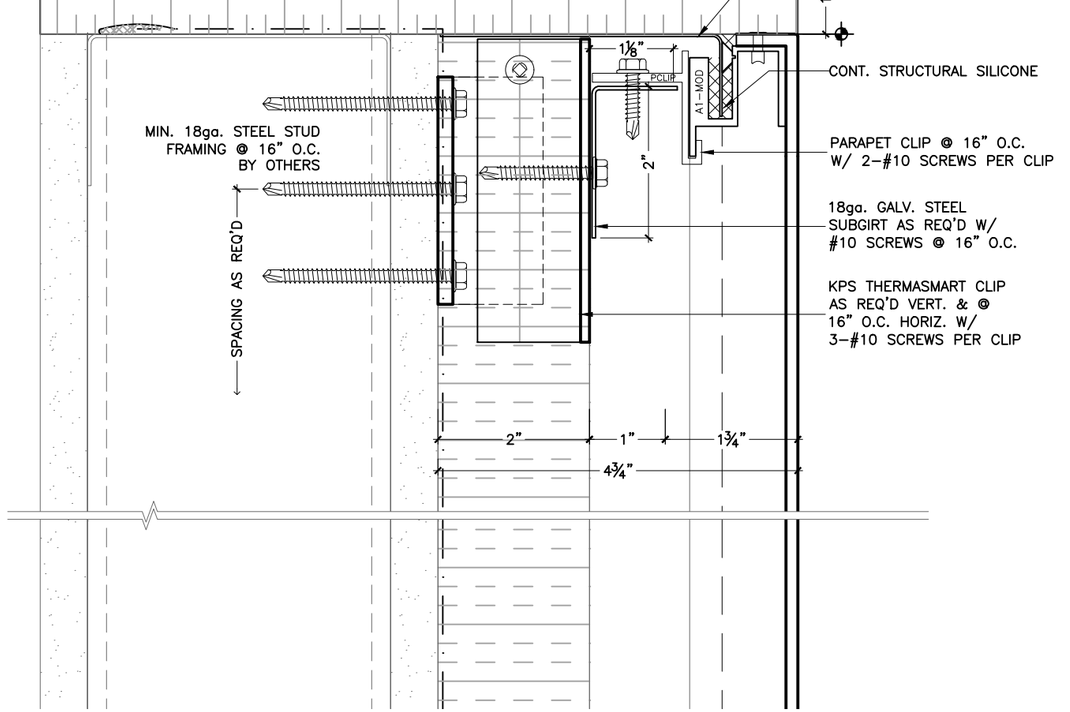


4 D2 **SCREEN DETAIL**
SCALE 6"=1'-0" ARCH REF.: N/A
KPS REF.: 2/3.1

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.27.24 | ISSUED FOR APPROVAL |

project:
**SAGIPER NORTH AMERICA NFPA 285 TEST**

project location:
INTERTEK FACILITY, 16015 SHADY FALLS ROAD, ELMENDORF, TEXAS 78112 U.S.A

date: February 27, 2024
scale: AS NOTED
drwn by: KPS
project no: GL5000

dwg. title:
DETAILS

dwg. no:
D2

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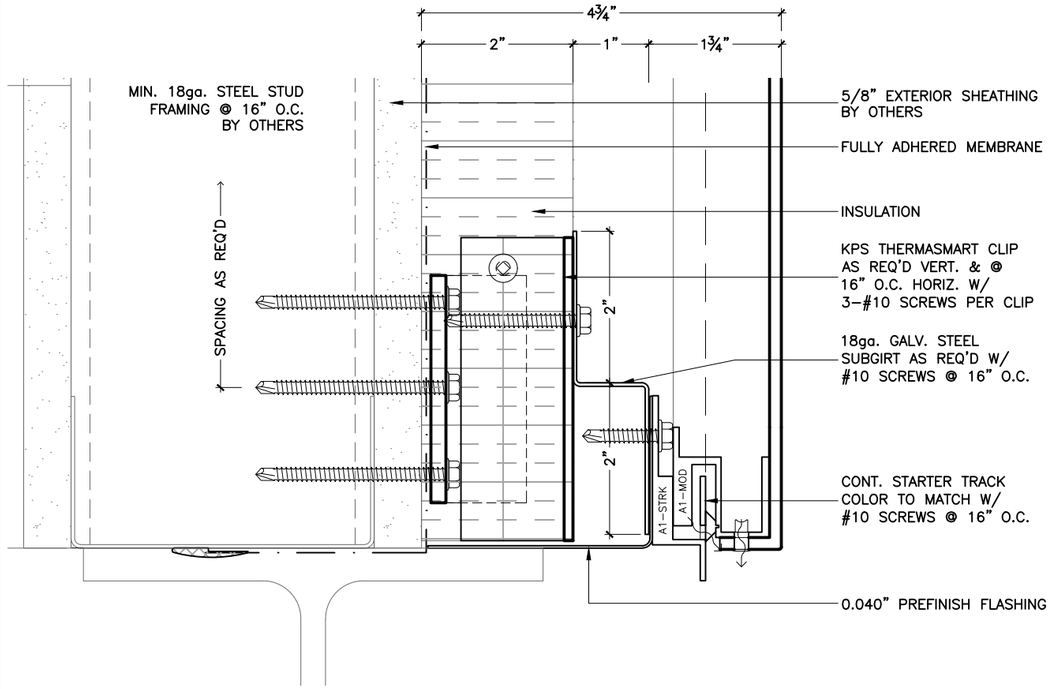


1/D3 **BASE SECTION DETAIL**
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KPS REF.: 2/3.1

ALL DIMENSIONS TO BE VERIFIED ON SITE.

COLOR LEGEND:

STANDARD COLOR

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | FEB.27.24 | ISSUED FOR APPROVAL |

project:
**SAGIPER NORTH AMERICA NFPA 285 TEST**

project location:
INTERTEK FACILITY, 16015 SHADY FALLS ROAD, ELMENDORF, TEXAS 78112 U.S.A

date: February 27, 2024
scale: AS NOTED
drwn by: KPS
project no: GL5000

dwg. title:
DETAIL

dwg. no:
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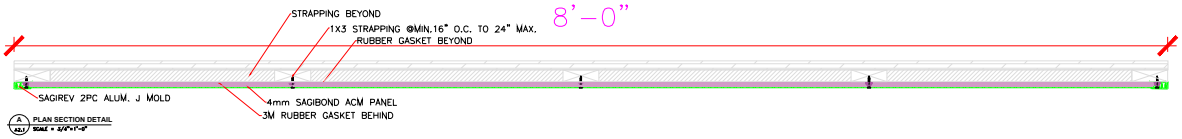


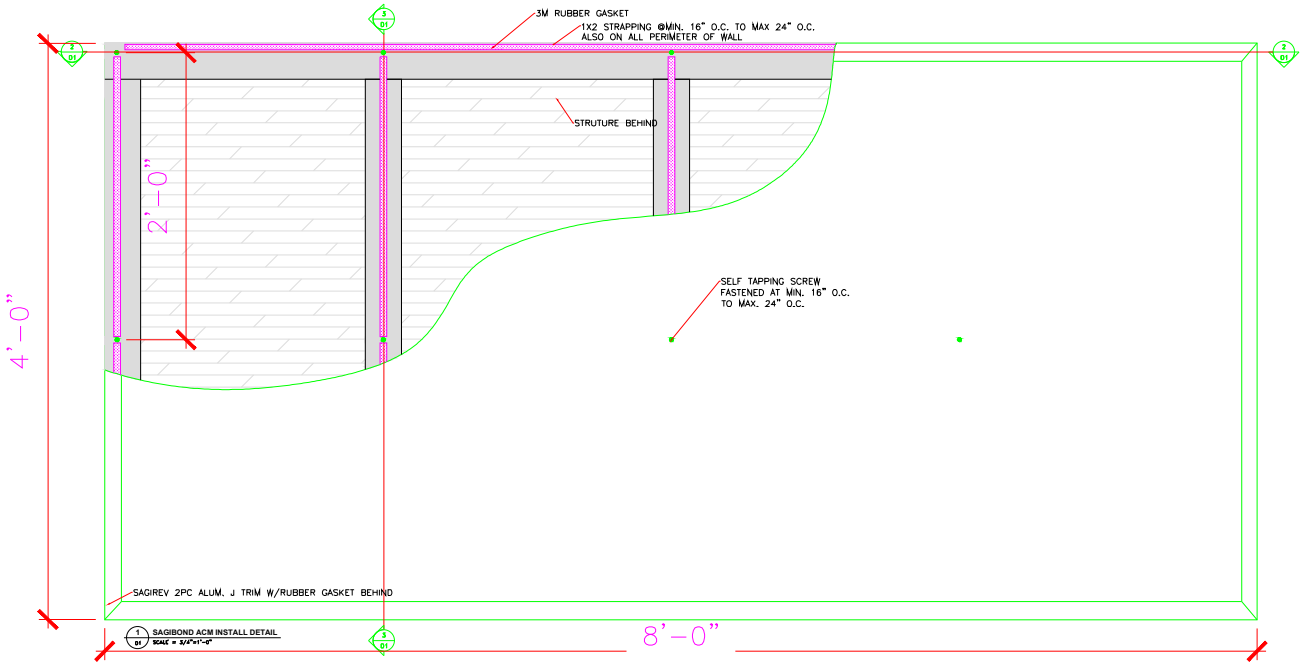


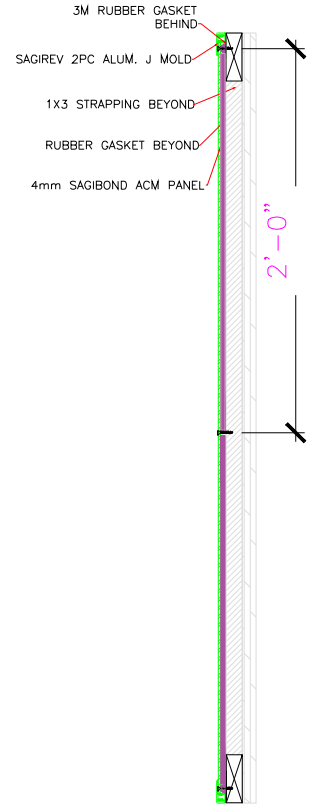


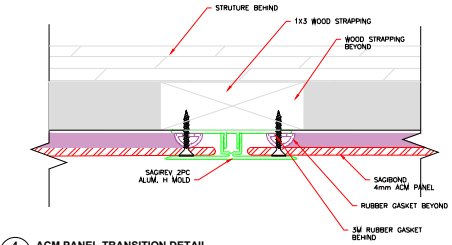


GENERAL NOTES:

INSTALL SYSTEM OVER STRAPPING OR FURRING AT 16" TO 24" O.C. SECURELY FASTENED TO STRUCTURAL FRAMING. PROVIDE MINIMUM 3/4" DRAINED AND VENTILATED RAINSCREEN CAVITY. INSTALL SAGIREV TRIMS TRUE AND PLUMB AND FASTEN TO SUBSTRUCTURE AT MAXIMUM 24" O.C. SEAL INTERFACES BETWEEN TRIM SYSTEM AND AIR / WEATHER BARRIER IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

APPLY CONTINUOUS RUBBERIZED ADHESIVE RUBBER GASKET TO INTERIOR FACE OF TRIM AND STRAPPING PRIOR TO PANEL INSTALLATION AND PROVIDE GASKET RELIEF AT FASTENER LOCATIONS TO ALLOW PROPER FASTENER BEARING. INSERT PANELS INTO TRIM POCKET AND ALIGN WITH UNIFORM EDGE CLEARANCES. PROVIDE MINIMUM 1/8" PANEL EDGE CLEARANCE, 1/4" PREFERRED, TO ALLOW FOR THERMAL MOVEMENT.

FASTEN PANELS THROUGH TRIM POCKET INTO SUPPORTING STRAPPING AT 16" TO 24" O.C. USING #8 X 1-1/4" STAINLESS STEEL OR CORROSION-RESISTANT WAFER HEAD SCREWS INSTALLED APPROXIMATELY 3/4" FROM PANEL EDGE. DO NOT OVERTIGHTEN FASTENERS AND DO NOT RIGIDLY RESTRAIN PANELS.

AFTER PANEL INSTALLATION, INSTALL SNAP-IN ALUMINUM FINISHING CAPS TO CONCEAL FASTENERS AND COMPLETE SYSTEM. FINISHING CAPS ARE NON-STRUCTURAL AND SHALL NOT BE USED FOR PRIMARY PANEL ATTACHMENT.

INSTALL SYSTEM PLUMB AND LEVEL WITH MAXIMUM DEVIATION OF 1/8" IN 10'-0". ALL FASTENER SPACING AND ATTACHMENT SHALL BE VERIFIED BY PROJECT ENGINEER BASED ON SITE-SPECIFIC WIND LOAD REQUIREMENTS. COORDINATE PANEL LAYOUT WITH ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION. INSTALLATION SHALL BE PERFORMED BY QUALIFIED INSTALLERS EXPERIENCED IN ACM CLADDING SYSTEMS.

ISSUE DATE : 2026.03.06

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NORTH AMERICA
ARCHITECTURAL PRODUCTS
WWW.SAGIPERNORTHAMERICA.COM

THESE DRAWINGS ARE PROVIDED AS A GENERAL GUIDE FOR SAGIPER PRODUCTS. THEY ARE INTENDED FOR PLANNING USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS, AND DESIGN PROFESSIONALS ONLY AND ARE NOT SUITABLE FOR CONSTRUCTION. DO NOT SCALE THIS DRAWING.

INSTALLATION MUST BE COMPLETED ACCORDING TO THE OFFICIAL SAGIPER MANUFACTURER SPECIFICATIONS AND TECHNICAL GUIDELINES. ALWAYS REVIEW THE FULL INSTALLATION INSTRUCTIONS AT www.sagipernorthamerica.com AND CONSULT APPROPRIATE TECHNICAL PROFESSIONALS TO CONFIRM THESE DETAILS ARE SUITABLE FOR YOUR PROJECT.

SAGIPER NORTH AMERICA DOES NOT ASSUME LIABILITY FOR THE USE OF THESE DRAWINGS. FOR COMPLETE AND UP-TO-DATE INSTALLATION INFORMATION, PLEASE REFER TO OUR TECHNICAL DOCUMENTATION AND INSTALLATION GUIDES.

SHEET TITLE:

SAGIBOND ACM INSTALL DETAIL

SHEET NO.:

D1

# LISTING INFORMATION OF Alucoil - larson® by Alucoil® FR 4 mm and 6 mm ACM Panels

SPEC ID: 29074

Alucoil North America LLC
1976 Joe Rogers Jr Blvd

Manning, SC 29102

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larson® by Alucoil® FR 4 mm and 6 mm ACM Panels consist of 0.5 mm aluminum skins on both sides with a proprietary, fire resistant (FR) core with a total panel thickness of 4 mm or 6 mm.

**RATINGS**

| ASTM E84 | FLAME SPREAD INDEX | SMOKE DEVELOPED INDEX |
|---|---|---|
| larson® by Alucoil® FR 4 mm ACM Panels | 5 | 5 |

| CAN/ULC S102 | FLAME SPREAD INDEX | SMOKE DEVELOPED INDEX |
|---|---|---|
| larson® by Alucoil® FR 6 mm ACM Panels | 0 | 0 |

| ASTM E119 / CAN/ULC S101 | FIRE RESISTANCE | DESIGN NUMBER |
|---|---|---|
| larson® by Alucoil® FR 4 mm ACM Panels* | 1 hour | ANA/MCMWP 60-01 |
| *The 1-hour fire resistance rating is applicable to only the interior side of the wall system. See Design Listing for further details. | | |

| CAN/ULC S134 | HEAT FLUX INDEX @ 3.5 m | FLAME SPREAD |
|---|---|---|
| larson® by Alucoil® FR 6 mm ACM Panels | 24.93 kW/m$^2$ | 2.5 m |

See Design Listing ANA/MCMWP 25-01.

The NFPA 285 (Design Listing ANA/MCMWP 30-01), UL 1715 and ICC-ES AC25 requirements were met using the larson® by Alucoil® FR 4 mm ACM Panels.

larson® by Alucoil® FR 3 mm, 4 mm, and 6 mm ACM panels have met the requirements of ASTM E331-09 (300 Pa pressure differential, 2 hour duration) using the following assembly details:

1. 19 mm deep aluminum Z-bar fastened into the bottom of the wall using 45 mm long tapcon screws, and a panel starter extrusion fastened into the Z-bar to support the bottom of the larson® by Alucoil® ACM Panels using 19 mm pan head fasteners.
2. 19 mm deep aluminum hat-bar fastened into the wall using 45 mm long tapcon, spaced to line up with the top of the larson® by Alucoil® ACM Panels.
3. Support panel clips fastened into the top side of the larson® by Alucoil® FR 3mm ACM Panels using 19 mm pan head fasteners. This enables the larson® by Alucoil® ACM Panels to be fastened into the hat-

bar.

4. The larson® by Alucoil® ACM Panels are friction fitted into the panel starter extrusion and then the top of the panels fastened through the support panel clips into the hat-bar using two 19 mm pan head fasteners per support panel clip.
5. A spline (same material as core) friction fitted into the sides of the larson® by Alucoil® ACM Panels through built-in metal channels, so that it fills both the horizontal and vertical joints.
6. This process is followed to complete one row of panels. The second row above is friction fitted into the support panel clips and another hat-bar installed in line with the top of the larson® by Alucoil® ACM Panels.
7. Windows openings are covered on the sides with aluminum flashing using 127 mm tapcon screws.
8. The gap between flashing and window frames are filled with 5/8 in. backer rod, topped with Dow 795 sealant, and then tooled.

| Attribute | Value |
|---|---|
| CSI Code | 07 42 13 Metal Wall Panels |
| Fire Resistance | 1 Hour Fire Rating |
| Listed or Inspected | LISTED |
| Report Number | G100624209 |
| Criteria | CAN / ULC S134 (1992) |
| Criteria | CAN / ULC S101 (2007) |
| Criteria | UL 1715 (2008) |
| Criteria | ASTM E331 (2009) |
| Criteria | NFPA 285 (2006) |
| Criteria | ASTM E119 (2010) |
| Criteria | ASTM E84 (2010b) |
| Criteria | CAN / ULC S102 (2010) |
| Criteria | ASTM E84 (2012) |
| Criteria | ASTM E119 (2012) |
| Criteria | NFPA 285 (2012) |
| Criteria | ICC-ES AC25 (2010) |
| Intertek Services | Certification |
| Listing Section | WALL ASSEMBLIES |
| Test Original Issue Date | December 9, 2010 |
| Verification Testing | YES |
| Verification Test Type | FTIR |

# DRAWING INDEX

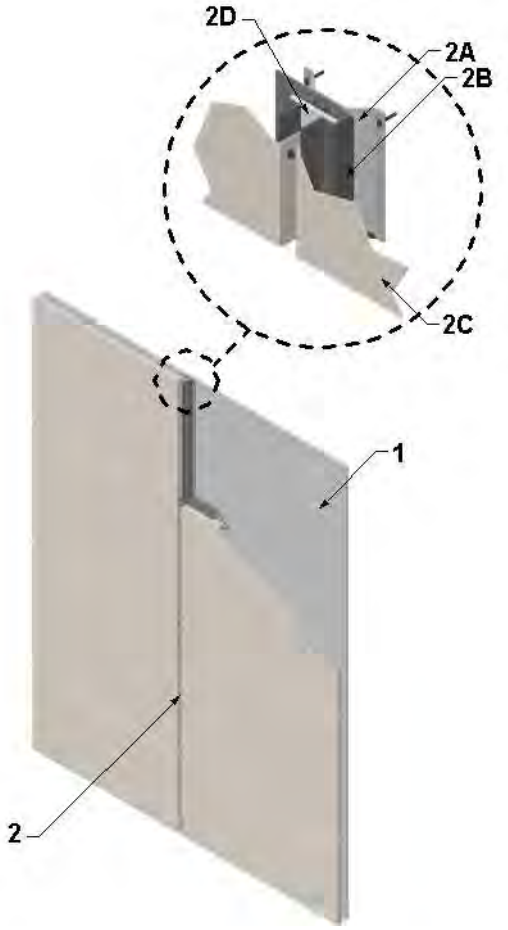
ANA/MCMWP 25-01
ANA/MCMWP 30-01
ANA/MCMWP 60-01

# ANA/MCMWP 25-01

**Division 7 – Thermal and Moisture Protection**
**07 42 00 Wall Panels**
**07 42 13.23 Metal Composite Material Wall Panels**



**Design Number: ANA / MCMWP 25-01**
**EXTERIOR WALL SYSTEMS**
**Alucoil® North America, LLC**
**larson® by Alucoil® FR 6 mm ACM Panels**
**CAN/ULC S 134 (1992)**
**Meets the Requirements of Section 3.1.5.5 of the National Building Code of Canada, 2010**




1. EXTERIOR WALL ASSEMBLY: Incorporate construction features in the exterior wall assembly as described in Item 2. Secure exterior veneer to existing wall assembly as follows:

2. CERTIFIED COMPANY: Alucoil® North America, LLC

   CERTIFIED PRODUCT: Aluminum Composite Panels

Date Created: August 28, 2012
Project No: 100596374SAT-018C

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# ANA/MCMWP 25-01 (page 2 of 2)

**Division 7 – Thermal and Moisture Protection**
**07 42 00 Wall Panels**
**07 42 13.23 Metal Composite Material Wall Panels**



MODEL: larson® by Alucoil® FR 6 mm ACM Panels

EXTERIOR VENEER: Install an ACM (Aluminum Composite Metal Panel) system consisting of the following elements:

A. HAT BAR: Secure hat bars oriented vertically to the base wall assembly (Item 1) using appropriately sized fasteners specified by the manufacturer. Hat bars coincide with the vertical joints of the aluminum composite panel (Item 2C) vertical joints.

B. SUPPORT PANEL CLIPS: Install support panel clips to the top side of the larson® by Alucoil® FR 6 mm ACM Panels (Item 2C) spaced approximately 12 in. on center (oc) then secure assembly to the exterior side of hat bar (Item 2A).

C. ALUMINUM COMPOSITE METAL PANEL: Install larson® by Alucoil® FR 6 mm ACM Panels by friction fitting the bottom of the panel into the starter extrusion (not show), and secure the top of the panel using two 3/4 in. (19 mm) pan head fasteners inserted through the support panel clips (Item 2B) into the hat bar (Item 2A).

D. SPLINE: Insert and friction fit a nominal 2 in. wide pre-cut strip of larson® by Alucoil® FR 6 mm ACM Panel in the support panel clips (Item 2B) in all vertical and horizontal panel joints.

Date Created: August 28, 2012
Project No: 100596374SAT-018C

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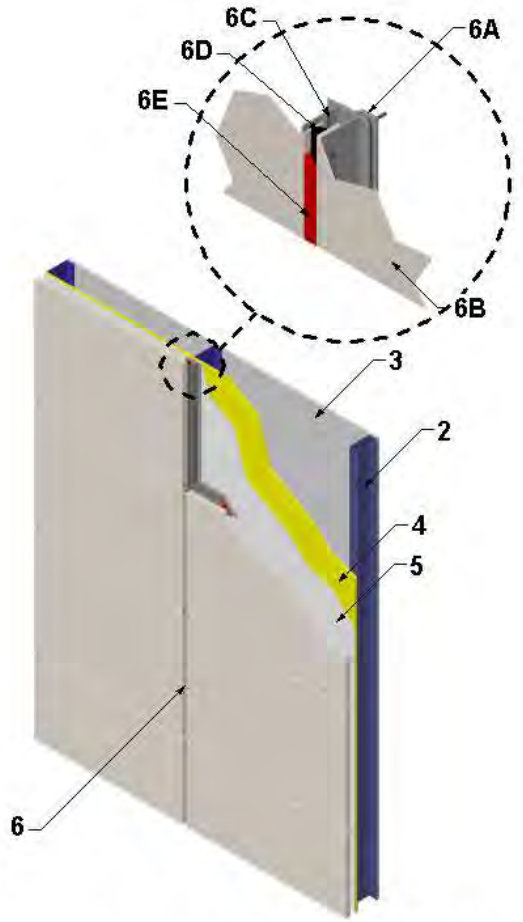
# ANA/MCMWP 30-01

**Division 7 – Thermal and Moisture Protection**
**07 42 00 Wall Panels**
**07 42 13.23 Metal Composite Material Wall Panels**



**Design Number: ANA / MCMWP 30-01**
**EXTERIOR WALL SYSTEMS**
**Alucoil® North America, LLC**
**larson® by Alucoil® FR 4 mm ACM Panels**
**NFPA 285 – Meets Conditions of Acceptance**




**Item 1: Exterior Wall Assembly**

1. EXTERIOR WALL ASSEMBLY: Incorporate construction features in the exterior wall assembly as described in Items 2 through 6.
2. STEEL FRAMING (ITEM 2): Install nominal 3-5/8 in., 20 GA steel studs spaced nominally 24 in. on center (oc). Attach steel studs to 20 GA top and bottom steel tracks using nominal 7/16 in. long pan head framing screws attached to the front and back of each steel stud.

Date Created: August 28, 2012
Project No: 100596374SAT-018B

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# ANA/MCMWP 30-01 (page 2 of 2)

**Division 7 – Thermal and Moisture Protection**
**07 42 00 Wall Panels**
**07 42 13.23 Metal Composite Material Wall Panels**



3. INTERIOR GYPSUM: Apply one (1) layer of 5/8 in. thick, Type X gypsum board to the interior side of the steel framing (Item 2) with the long dimension parallel to the steel studs. Secure using #6 1-1/4 in. long, Type S, screws spaced nominally 8 in. oc around the perimeter and 12 in. oc in the field.

   A. JOINT TAPE AND COMPOUND – (Not Shown) Apply a level 2 finish of vinyl or casein, dry or premixed joint compound applied in two coats to all exposed fastener heads and gypsum board joints. Embed minimum 2 in. wide paper, plastic, or fiberglass tape in first layer of compound over joints in gypsum board (Item 3).

4. EXTERIOR SHEATHING: Install 5/8 in. thick DensGlass® Gold exterior sheathing to the exterior side of the steel framing (Item 2) with the long dimension perpendicular to the steel studs. Secure using #6 1-1/4 in. long, Type S, screws spaced nominally 8 in. oc around the perimeter and 12 in. oc in the field.

5. WEATHER BARRIER: Install a single layer of vapor permeable barrier to the exterior side of the exterior sheathing (Item 4) with minimum 2 in. overlaps at the seams.

6. CERTIFIED COMPANY: Alucoil® North America, LLC

   CERTIFIED PRODUCT: Aluminum Composite Panels

   MODEL: larson® by Alucoil® FR 4 mm ACM Panels

   EXTERIOR VENEER: Install an ACM (Aluminum Composite Metal Panel) system consisting of the following elements:

   A. "L" CHANNELS: Install vertical aluminum "L" shaped channels secured through the exterior sheathing (Item 4) into the steel framing (Item 2) around the perimeter of the assembly. Secure clip extrusion channel into steel framing (Item 2) using #12-11 X 2 in. long self-drilling screws spaced maximum 24 in. oc.

   B. ALUMINUM COMPOSITE METAL PANEL: Install Alucoil® FR 6 mm ACM Panels to "L" channels (Item 7A) flush to the exterior sheathing (Item 4). Secure panels to "L" channels using #12-11 X 3/4 in. long stainless steel fasteners spaced nominal 18 in. oc.

   C. ALUMINUM EXTRUSIONS: Secure aluminum composite metal panels (Item 6B) in the field of the assembly using aluminum extrusions attached directly to the panels using #10 X 3/4 in. self-drilling hex head plated steel fasteners.

   D. BACKER ROD: Install nominal 1/2 in. diameter Tundra Foam, open cell backer rod in all horizontal and vertical seams between aluminum composite panels.

   E. SEALANT: Install DOW 795 over the backer rod (Item 6D) to bring the surface flush with the adjacent aluminum composite panels (Item 6B).

Date Created: August 28, 2012
Project No: 100596374SAT-018B

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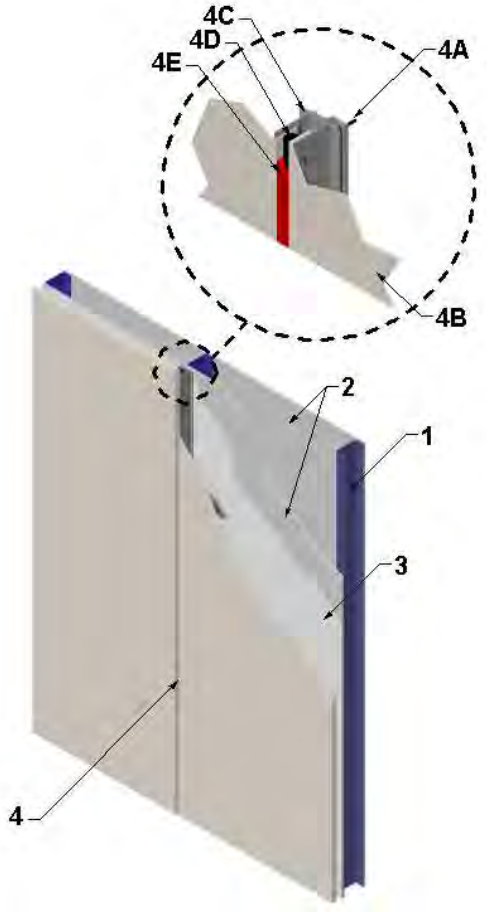
# ANA/MCMWP 60-01

**Division 7 – Thermal and Moisture Protection**
**07 42 00 Wall Panels**
**07 42 13.23 Metal Composite Material Wall Panels** **Page 1 of 2**

**Design Number ANA/MCMWP 60-01**
**Non-Load Bearing Wall System**
**Alucoil® North America, LLC**
**larson® by Alucoil® FR 4 mm ACM Panels**
**ASTM E 119 (2012)**
**CAN/ULC S 101 (2007)**
**Rating: 1 Hour**
**Interior Exposure Only**




Construct 1-hour rated gypsum wall assembly using the following elements:

1. STEEL STUDS: Install nominal 3-5/8 in. deep, 18 gauge (GA) galvanized steel studs spaced maximum 16 in. on center (oc). Friction-fit steel studs into 20 GA galvanized steel floor and ceiling track (Not Shown). Install lateral bracing (not shown) nominal 5 ft. oc vertically.

Date Revised: August 28, 2012
Project No: 100596374SAT-018A

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# ANA/MCMWP 60-01 (page 2 of 2)

**Division 7 – Thermal and Moisture Protection**
**07 42 00 Wall Panels**
**07 42 13.23 Metal Composite Material Wall Panels**



2. GYPSUM BOARD: Install nominal 5/8 in. thick Type X gypsum board to the interior and exterior sides of wall assembly. Install gypsum board with long edge perpendicular to steel studs and secure using #6 X 1-1/4 in. long self drilling zinc plated drywall screws spaced 8 in. oc around the perimeter and 12 in. oc in the field. Offset horizontal joints minimum 24 in. oc. After gypsum board is attached, apply a level 2 finish consisting of the following elements: Vinyl or casein, dry or premixed joint compound applied to the gypsum board in two coats to cover all exposed screw heads and gypsum board butt joints. Embed a minimum 2 in. wide paper, plastic, or fiberglass tape in first layer of compound over butt joints of the gypsum board.

3. WEATHER BARRIER: Install a single layer of vapor permeable barrier to the exterior side of the exterior gypsum board (Item 2) with minimum 2 in. overlaps at the seams.

4. CERTIFIED COMPANY: Alucoil® North America, LLC

   CERTIFIED PRODUCT: Aluminum Composite Panels

   MODEL: larson® by Alucoil® FR 4 mm ACM Panels

   EXTERIOR VENEER: Install an ACM (Aluminum Composite Metal Panel) system consisting of the following elements:

A. "L" CHANNELS: Install vertical aluminum "L" shaped channels secured through the exterior sheathing (Item 4) into the steel framing (Item 2) around the perimeter of the assembly. Secure clip extrusion channel into steel framing (Item 2) using #12-11 X 2 in. long self-drilling screws spaced maximum 24 in. oc.

B. ALUMINUM COMPOSITE METAL PANEL: Install Alucoil® FR 6 mm ACM Panels to "L" channels (Item 7A) flush to the exterior sheathing (Item 4). Secure panels to "L" channels using #12-11 X 3/4 in. long stainless steel fasteners spaced nominal 18 in. oc.

C. ALUMINUM EXTRUSIONS: Secure aluminum composite metal panels (Item 6B) in the field of the assembly using aluminum extrusions attached directly to the panels using #10 X 3/4 in. self-drilling hex head plated steel fasteners.

D. BACKER ROD: Install nominal 1/2 in. diameter Tundra Foam, open cell backer rod in all horizontal and vertical seams between aluminum composite panels.

E. SEALANT: Install DOW 795 over the backer rod (Item 6D) to bring the surface flush with the adjacent aluminum composite panels (Item 6B).

Date Revised: August 28, 2012
Project No: 100596374SAT-018A

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# Florida Building Code Report
# FBCR-0102

**Issue Date: 12-20-2021**
**Renewal Date: 01-31-2023**

**DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION**
**Section: 07 42 43 – Composite Wall Panels**

**REPORT HOLDER:**
**Alucoil North America LLC**
**1976 Joe Rogers Jr. Blvd.**
**Manning, South Carolina**
**www.alucoil.com**

**REPORT SUBJECT:**
**larson by Alucoil® 4mm FR ACM Panels**

## 1.0 SCOPE OF EVALUATION

**1.1** This Research Report addresses compliance with the following Codes:

- 2020 *Florida Building Code®* - Building (FBC) (excluding High Velocity Hurricane Zones)

**1.2** The larson by Alucoil® 4mm FR ACM Panels have been evaluated for the following properties (see Table 1):

- Physical properties
- Wind loads
- Durability

**1.3** The larson by Alucoil® 4mm FR ACM Panels have been evaluated for the following uses (see Table 1):

- Exterior wall covering in accordance with FBC Section 1407

## 2.0 STATEMENT OF COMPLIANCE

The larson by Alucoil® 4mm FR ACM Panels comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

## 3.0 DESCRIPTION

The larson by Alucoil® FR 4 mm ACM Panels consist of 0.5mm aluminum skins on both sides with a proprietary, fire resistant (FR) core, resulting in panels with a total thickness of 4 mm. Standard widths are 1000, 1270, and 1575 mm (39.4, 50, and 62 in.).

The panels are installed with the East Coast Metal Systems EC-200 ACM wall system (reference Florida Product Approval # FL13754).

## 4.0 PERFORMANCE CHARACTERISTICS

**4.1 Flame Spread Characteristics:** The panels have a Class A classification (flame spread index no greater than 25 and smoke developed index no greater than 450 when tested in accordance with ASTM E84) in accordance with FBC Section 803.

**4.2 Wind Resistance:** The maximum allowable transverse loads for the panels, when installed in accordance with this report, are 40 psf positive and 35 psf negative.

## 5.0 INSTALLATION

**5.1 General:** The larson by Alucoil® FR 4 mm ACM Panels must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

The panels must be installed over a water-resistive barrier complying with FBC Section 1404.2.

**5.2 Panel Fabrication and Attachment:** The rout-and-return assembly consists of flat panels formed into shallow "pans" by means of routing a groove in the back face of the panel, along each panel edge, and mechanically folding all four edges. The system's fabricator must install 0.070 in. thick I-shaped extruded aluminum stiffeners on the back of the panels, running the full panel width, parallel to the panel span at a maximum spacing of 24 in. on center. The stiffeners are attached at each end to the EC-200 framing system using a pair of aluminum L-brackets (see Figure 2 for details).

The stiffeners must be adhered to the panels using butyl tape. The panel length measured in the direction parallel to the stiffeners shall not exceed 60 in. The panels are attached to the East Coast Metal Systems EC-200 system. See Figures 1, 2 and 3 for details.

**5.3 Design:** The ACM Panel system attachment and the structural wall framing to which the ACM panel system is attached must be designed in accordance with the applicable Code for the specific project design requirements.

## 6.0 CONDITIONS OF USE

**6.1** Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

The design of the panel system, vapor retarders, framing members, connections, and curtain wall framing members must be submitted to and approved by the Code Official for each project.

**6.2** Required wind design pressure determined from allowable stress (nominal) design wind speeds ($V_{asd}$) in accordance with FBC Section 1609.3.1 shall not exceed the allowable transverse loads for the panels specified in 5.2 of this report.

**6.3** The panel system fabricator must provide a certificate of compliance to the Code Official attesting that the system fabrication includes the use of adhesives approved for use, that the adhesive application complies with the adhesive manufacturer's installation guidelines, and that the panel system fabrication complies with approved construction documents.

**6.4** The larson by Alucoil® 4mm FR ACM Panels are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

## 7.0 SUPPORTING EVIDENCE

**7.1** Reports of tests in accordance with ASTM E72, ASTM E84, and TAS 202.

**7.2** Intertek CCRR-0287.

**7.3** Intertek Listing Report "Alucoil North America LLC – larson by Alucoil® FR ACM Panels", on the Intertek Directory of Building Products.

## 8.0 IDENTIFICATION

The larson by Alucoil® 4mm FR ACM Panels are identified with the Alucoil name and address, the product name, the flame-spread and smoke developed indices, the Intertek Mark as shown below, the words "Code Compliance" and the Florida Research Report number (FBCR-0102).

Intertek

## 9.0 OTHER CODES

This section is not applicable.

## 10.0 FLORIDA BUILDING CODE REPORT USE

**10.1** Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

**10.2** Florida Building Code Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

**10.3** Reference to the Intertek Directory of Building Products at https://bpdirectory.intertek.com is recommended to ascertain the current version and status of this report.

**TABLE 1 - PROPERTIES EVALUATED**

| PROPERTY | 2020 FBC - BUILDING |
|---|---|
| Physical properties | 1407 |
| Wind resistance | 1405.1 |
| Surface burning characteristics | 803 |

This Florida Building Code Report ("Report") is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Report. Only the Client is authorized to permit copying or distribution of this Report and then only in its entirety, and the Client shall not use the Report in a misleading manner. Client further agrees and understands that reliance upon the Report is limited to the representations made therein. The Report is not an endorsement or recommendation for use of the subject and/or product described herein. This Report is not the Intertek Listing Report covering the subject product and utilized for Intertek Certification and this Report does not represent authorization for the use of any Intertek certification marks. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

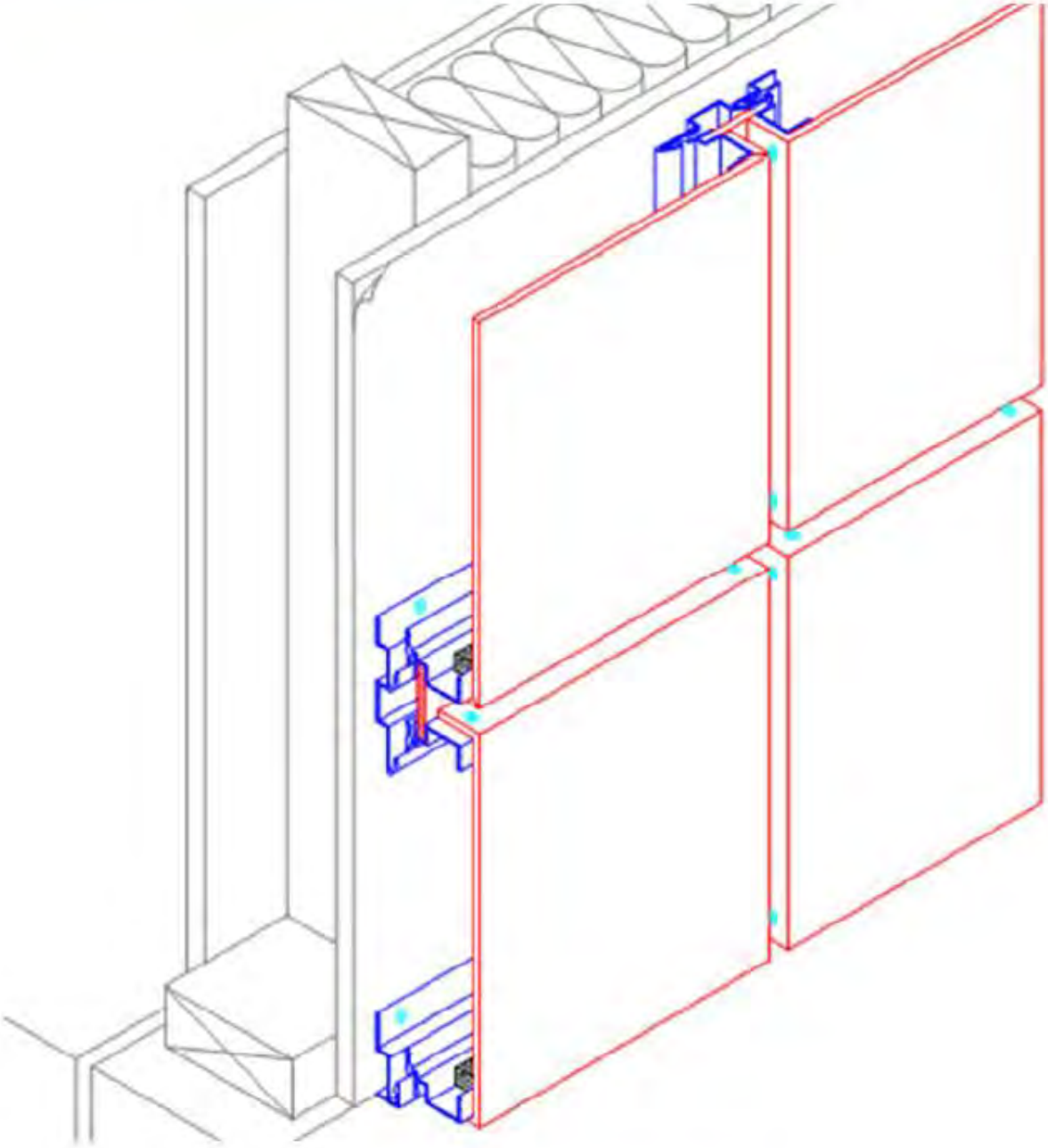


Figure 1 – ECMS EC 200 SYSTEM

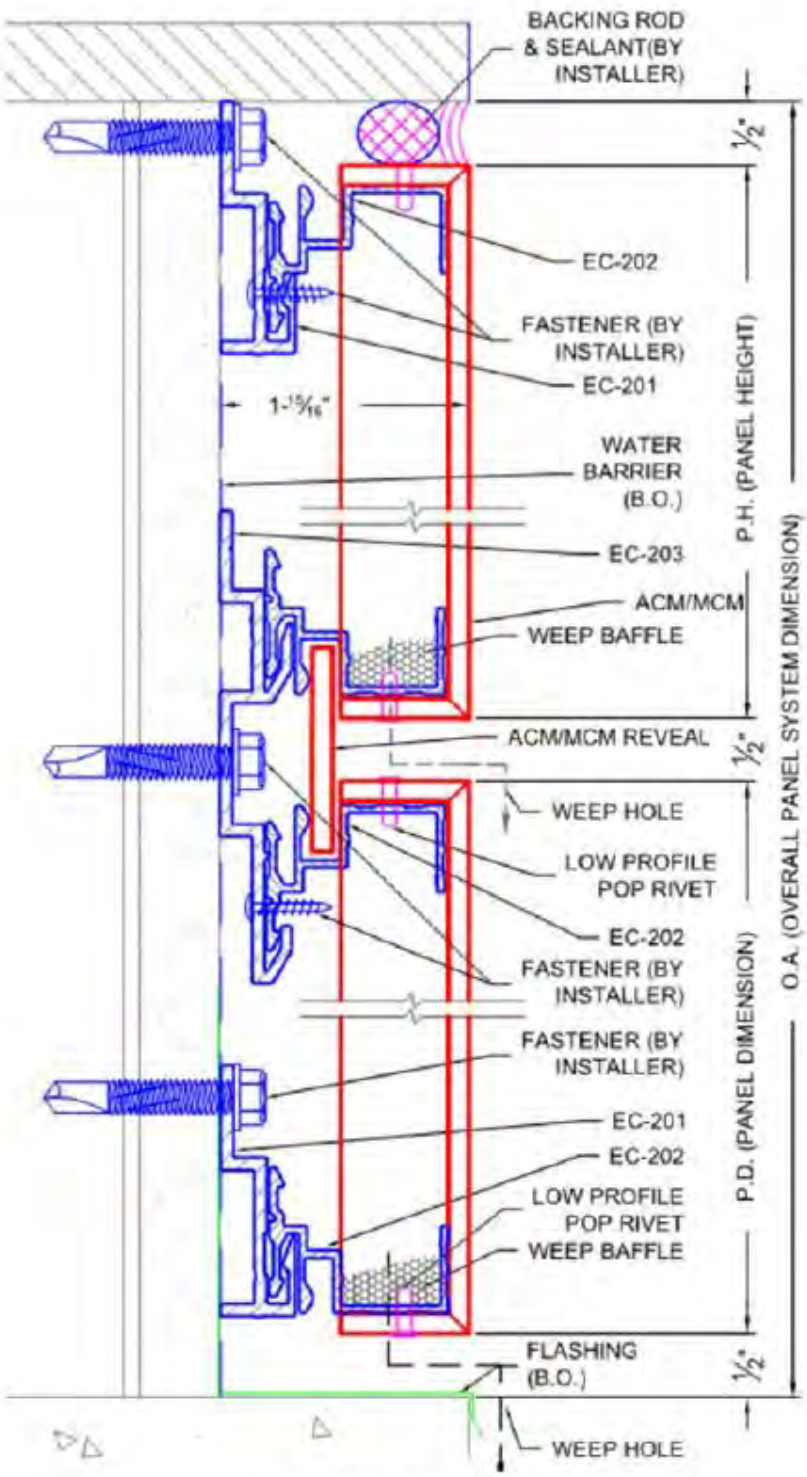



FIGURE 1 – CONTINUED

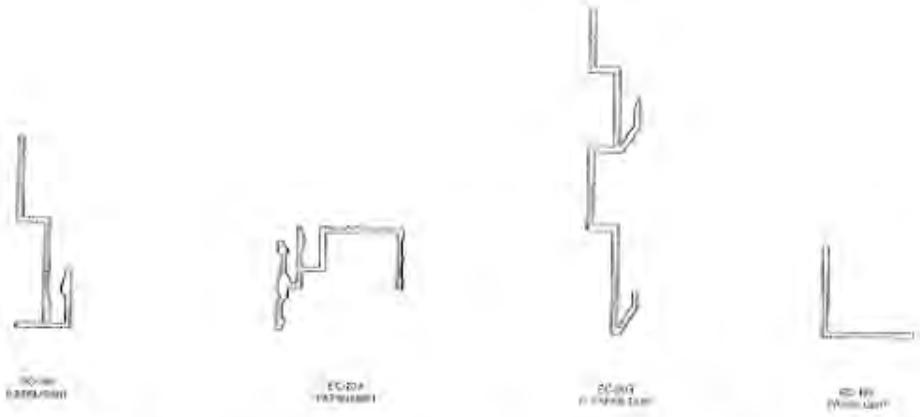
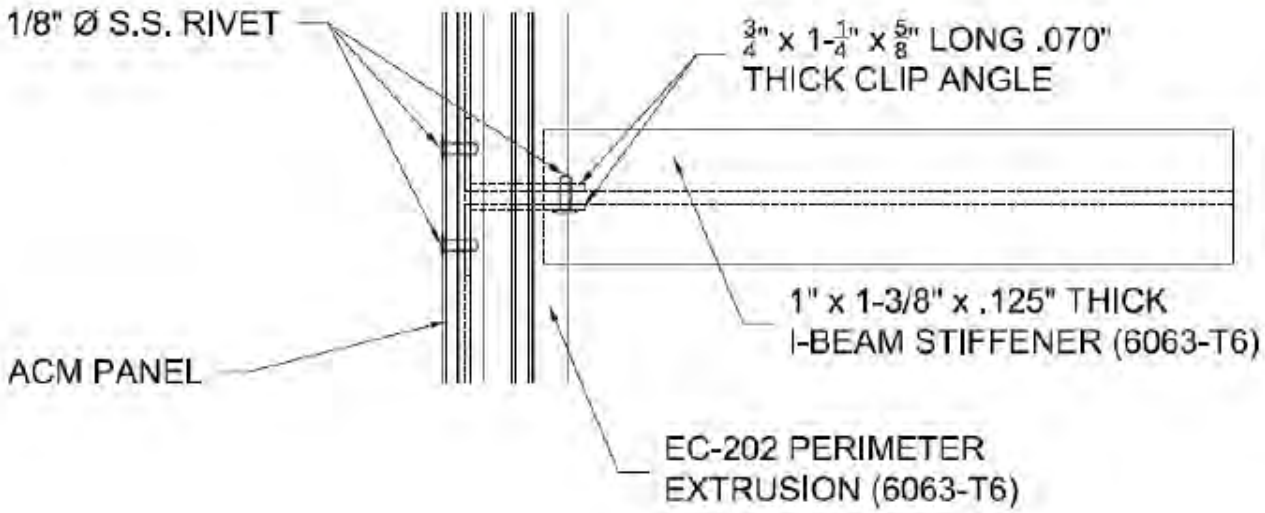


FIGURE 2 – STANDARD EXTRUSIONS FOR EC-200 COMPOSITE PANEL SYSTEM



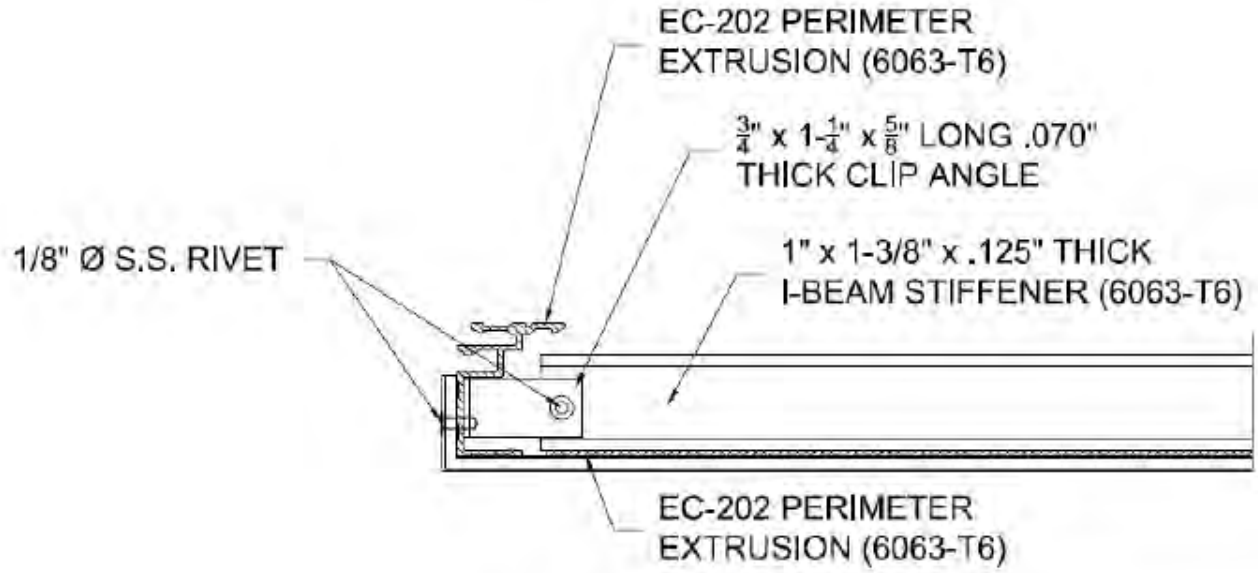




FIGURE 3 – STIFFENER CONNECTION

# Alucoil North America, LLC

## LEED CALCULATIONS

## Larson by Alucoil® Aluminum Composite Panels Rev LC 0112

The table below has been developed to provide information needed to determine earned certification points in the LEED® (Leadership in Environmental and Energy Design) Green Building Rating System™.

**Material and Resources**

**MR Credit 4:** Recycled Content. One point is awarded if the sum of post-consumer recycled content plus one half of the pre-consumer content is at least 10%. If the same value is at least 20% as determined by the same method then 2 points are awarded.

| larson by Alucoil® 3mm PE ACM | % Weight | % Post Content | % Pre Content | Total (100% Post + 50% Pre) |
|---|---|---|---|---|
| Aluminum Skins | 60.23 | 12.5 | 65 | 45.0 |
| Polyethylene Core | 39.77 | 0 | 50 | 25.0 |
| Total | 100.00 | 7.5 | 59.0 | **37.0%** |

| larson by Alucoil® 4mm PE ACM | % Weight | % Post Content | % Pre Content | Total (100% Post + 50% Pre) |
|---|---|---|---|---|
| Aluminum Skins | 50.05 | 12.5 | 65 | 45.0 |
| Polyethylene Core | 49.95 | 0 | 50 | 25.0 |
| Total | 100.00 | 6.3 | 57.5 | **35.0%** |

| larson by Alucoil® 4mm FR ACM | % Weight | % Post Content | % Pre Content | Total (100% Post + 50% Pre) |
|---|---|---|---|---|
| Aluminum Skins | 38.38 | 12.5 | 65 | 45.0 |
| Fire Resistant Core | 61.62 | 0 | 0 | 0.0 |
| Total | 100.00 | 4.8 | 24.9 | **17.3%** |

| larson by Alucoil® 6mm PE ACM | % Weight | % Post Content | % Pre Content | Total (100% Post + 50% Pre) |
|---|---|---|---|---|
| Aluminum Skins | 37.4 | 12.5 | 65 | 45.0 |
| Polyethylene Core | 62.6 | 0 | 50 | 25.0 |
| Total | 100.00 | 4.7 | 55.6 | **32.5%** |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# Alucoil North America, LLC

The total recycle content of Larson by Alucoil®ACM panels should be combined with other wall cladding system components in order to calculate the overall point qualification for a project.

**MR Credit 5:** larson by Alucoil®ACM panels are manufactured using material sourced from numerous suppliers with varying recycled contents and manufacturing locations. Therefore it is not possible to identify and quantify the initial extraction / harvest / recovery and manufacturing locations. Therefore it is recommended that larson by Alucoil® not be included in the calculation for this credit.

**Innovation in Design ID Credit:** Points are available for innovative design or exceptional performance per LEED requirements. The above average recycled content of some larson by Alucoil®ACM panel configurations may qualify for an Innovation in Design Credit.

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Manning, SC 29102 U.S.A.Fax: 803-505-6549
www.alucoilnorthamerica.com info@alucoilnorthamerica.com


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# SAGIPER WARRANTY

## WARRANTY COVERAGE

For products purchased hereunder Sagiper North America Inc. and Sagiper Produção e Comercialização de Perfis em PVC (hereafter referred to as Sagiper) warrants the original owner they are free from manufacturing defects subject to the conditions below. Warranty against excessive board material discoloration, loss of film adhesion and bubbling where installed in Canada or the United States of America, as follows:

- SAGIWALL panels for interior applications: Lifetime
- SAGIWALL panels for exterior applications: 50 years from the date of purchase (15 Years Non-Prorated)
- SAGIREV panels for interior applications: Lifetime
- SAGIREV panels for exterior applications: 50 years from the date of purchase (15 Years Non-Prorated)
- SAGIBOND panels for interior applications: Lifetime
- SAGIBOND panels for exterior applications: 50 years from the date of purchase (15 Years Non-Prorated)
- SAGIBATTEN for interior applications: Lifetime
- SAGIBATTEN for exterior applications: 50 years from the date of purchase (15 Years Non-Prorated)
- SAGISCREEN for interior applications: Lifetime
- SAGISCREEN for exterior applications: 50 years from the date of purchase (15 Years Non-Prorated)

Should any products be determined by Sagiper to have manufacturing defects, at the option of Sagiper such products will be replaced or repaired, and then returned to the owner, via Sagiper North America Inc. Products will be delivered either to Sagiper NA facility or the Sagiper retailer/distributor where the products were originally purchased. The degree of discolouration/colour fading will be evaluated by Sagiper (see Color/Fade Protection Conditions), who will be the sole judge of what is considered reasonable or excessive discoloration. At the sole discretion of Sagiper, a labor allowance may also be given to be used towards the replacement of defective material, please refer to the Sagiper Warranty Claims form for rates and conditions.

From time to time Sagiper manufacturers' new products, patterns, and colours, revise products, and occasionally discontinue products. Sagiper cannot guarantee replacement Sagiper materials will be an exact match of the original installed materials. At the discretion of Sagiper, equivalent replacement products may be supplied.

If any of the exclusions, disclaimers, or limitations are prohibited by law in a jurisdiction, they may be severed from this warranty without affecting the validity of the balance of the provisions.

## LIMITATIONS TO WARRANTY

Sagiper does not warranty damage arising from improper handling, installation, or maintenance, not in compliance with Sagiper guidelines. All installation instructions must be followed without exception. Use of pneumatic nailers will void the warranty. If SAGIREV panels are installed on an exterior wall application warranty is void.

Sagiper does not warrant against any damage caused by the following: use of accessories that do not properly receive or secure our panels, damage caused by tools or equipment on site, settlement, shrinkage, distortion, failure or cracking of the wall or materials to which the panels are applied, hail, earthquake, fire, hurricane, tornado, cyclone, gale, lightening, Acts of God, flood, wind-borne objects, ice, or weather of a catastrophic nature as defined by Environment Canada or the United States National Weather Service, harmful chemicals, surface distortion due to air pollution, normal and consistent weathering of surface, fumes or vapors directly applied to the siding or in the atmosphere, vandalism, misuse, physical abuse, riot, insurrection or civil disorder, negligence in or failure to provide reasonable and necessary cleaning of product to prevent an accumulation of dirt, staining or mildew that could become harmful to the products surface and cause distortion to the finish.

Sagiper does not warranty damage arising from exposure to localized heat sources such as fireplaces, barbeques, or space heaters. Owner to submit warranty claim within thirty (30) days of discovery of product defect, or the warranty is void.

## WARRANTY SCHEDULE

Sagiper warrants its products in exterior applications for fifty (50) years from the original purchase date. The first fifteen (15) years of the warranty is considered to be non-prorated. This means that any excessive board discoloration, loss of film adhesion, bubbling, or excessive board warping where installed in Canada or the United States of America is fully warrantied during the first fifteen (15) years. The warranty coverage schedule is as follows:

| **CLAIMANT:** | **NUMBER OF YEARS FROM ORIGINAL INSTALLATION:** | **MATERIAL COSTS COVERED BY SAGIPER:** |
|---|---|---|
| Original Owner | Anytime during first fifteen (15) years as owner of property to which material was applied | 100% + Labor Allowance |
| | 0-15 Years | **100% + Labor Allowance** |
| | 16- 20 Years | **75%** |
| | 21-30 Years | **50%** |
| | 31-40 Years | **25%** |
| | 41-50 Years | **10%** |
| | 50+ Years | **0%** |

## LIMITATIONS TO LIABILITY

Sagiper will not be liable for any consequential, incidental, special, or indirect losses.
This warranty will not be honored if any Sagiper product lines are used in any application deemed inappropriate or not outlined in installation guides. This warranty does not apply to any Sagiper product that has received any sort of aftermarket finish or coating, including but not limited to: paint, varnish or any coating unauthorized by Sagiper that could be deemed harmful to the products finish.

## COLOR/FADE PROTECTION CONDITIONS

Sagiper products are not warrantied against discoloration or other damage caused by air pollution, exposure to harmful chemicals, or normal weathering.

Normal weathering is defined by effects of UV sunlight exposure, under normal atmospheric conditions, over time, to the finish of the product. These effects can be seen over time, in different extremes depending on air quality, the building's location and other local conditions which Sagiper has no control. Sagiper will warrant color fade and/or discoloration provided such fading is in excess of Delta 2 Hunter units, as determined by Sagiper, in accordance with testing results performed under ASTM D1729 & ASTM D772-86.

## WARRANTY REGISTRATION

This form must be completed and submitted to Sagiper North America within 30 days of project completion to activate the product warranty. Incomplete or late registrations will not be accepted.

## TRANSFER OF WARRANTY

This warranty is transferrable by the original property owner(s) of the property to which the siding/soffit is applied. Upon transfer, all warranty periods shall be prorated and limited in duration to fifty (50) years from the date of the installation of the product as indicated in the Warranty Transfer document. **ALL TRANSFERS CAN ONLY BE CONSIDERED VALID AND HONORED IF THE WARRANTY TRANSFER DOCUMENT IS RECEIVED BY SAGIPER NO LATER THAN THIRTY (30) DAYS FROM THE NEW PROPERTY OWNERS TAKING POSSESSION OF THE PROPERTY.**

**WARRANTY CLAIM SCHEDULE WHEN TRANSFERRED**

| CLAIMANT: | NUMBER OF YEARS FROM ORIGINAL INSTALLATION: | MATERIAL COSTS COVERED BY SAGIPER: |
|---|---|---|
| Original Owner | *REFER TO STANDARD WARRANTY SCHEDULE* | |
| Subsequent Owner or non-individual property owners | 0-15 Years ..... | **100% + Labor Allowance** |
| | 16- 20 Years ..... | **75%** |
| | 21-30 Years ..... | **50%** |
| | 31-40 Years ..... | **25%** |
| | 41-50 Years ..... | **10%** |
| | 50+ Years ..... | **0%** |

## WARRANTY CLAIMS PROCEDURE

Please follow the warranty claims procedures as indicated on Sagiper Warranty Claims form, available at the Sagiper North America website. **http://sagipernorthamerica.com/**
Updated: JANUARY 1, 2024

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info@sagipernorthamerica.com

# WARRANTY REGISTRATION/TRANSFER FORM

## INSTRUCTIONS FOR WARRANTY REGISTRATION/TRANSFER FORM

Sagiper manufactures high quality building products. We take pride in delivering to your quality products that last, which is why we offer our extensive warranties. Our customer service team will carefully review your request for warranty registration/transfer and contact you regarding its status. Please fill out the following **Warranty Registration/Transfer Form** completely, incomplete forms cannot be processed. Submit this form to info@sagipernorthamerica.com.

Please note the registration/transfer of Sagiper warranty is subject to the following procedures and conditions:

- This form must be completed and submitted to Sagiper North America within **30 days** of project completion to activate the product warranty. Incomplete or late registrations will not be accepted.
- New property owner to send Warranty registration/transfer Form to Sagiper North America Inc. registration/transfer requests sent by email are preferred and are typically processed faster.
- Sagiper will review the request for warranty registration/transfer and will contact the new owner to advise if the warranty registration/transfer has been accepted.
- If Sagiper doesn't receive complete information, the request for warranty will be void.
- If Sagiper doesn't receive completed Warranty registration/transfer Form within **30 calendar days** of change of property ownership, the warranty will be void.
- If the Warranty registration/transfer Form information is unclear, Sagiper may request additional information.
- Any courier or other related costs associated with the warranty registration/transfer are not the responsibility of Sagiper. Typically, there aren't any associated costs with a Sagiper warranty registration/transfer.
- If the warranty registration/transfer is approved by Sagiper, the most current Sagiper warranty conditions will be in effect. The current Sagiper warranty is available at: www.sagipernorthamerica.com

## Original Owner Contact Information

Original Owner's Name: _____

*(First)* *(Last)*

Project Address: _____

*(Street Adress)* *(Apartment/Unit#)*

_____

*(City)* *(Province/State)* *(Postal/ZIP Code)*

Original Owner's Phone (if known): _____

Original Owner's Email (if known): _____

Name of Store/Distributor where Purchased (if known): _____

City of Store/Distributor (if known: _____

Distributor PO#: _____ Sagiper Sales Order/Invoice #: _____

**T** 1 780 482 3445 | **TF** 1 866 724 4737
www.sagipernorthamerica.com
18505 105 Ave NW, Edmonton, AB, Canada
info@sagipernorthamerica.com

# WARRANTY REGISTRATION/TRANSFER FORM

## New Owner Contact Information

**Only complete this form for a warranty transfer to a new owner**

New Owner's Name: _____

*(First)* *(Last)*

Original Owner's Phone (if known): _____

Original Owner's Email (if known): _____

## Builder/Installer Information

☐ Residential Application ☐ Commercial/Institutional Application

Builder Name: _____

Builder Contact Information: (Phone/Email: _____

Installation Contractor Company Name: _____

Installer Contact Info (Phone/Email): _____

Was the product professionally installed? ☐ Yes ☐ No

After the Sagiper products were originally installed, has the building/project been altered or renovated in any areas with Sagiper products?
If there have been changes, please describe below.

| |
|---|
| |

I acknowledge that a reasonable time will be required by Sagiper to review and administer the warranty transfer procedures. I have read and agree to the terms of the Sagiper North America warranty, available at: www.sagipernorthamerica.com

_____

*(Customer Name)* *(Signature)* *(Date)*

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# WARRANTY REGISTRATION/TRANSFER FORM

## Project Information

Sagiper Product(s) Used:

☐ SAGIWALL ☐ SAGIREV ☐ SAGIBOND ☐ SAGISCREEN ☐ SAGISCREEN

Profiles/Panel Length:
(*Example: SAGIWALL 6 inch, V-Groove 12/19 ft or custom.)* _____

☐ Residential Application ☐ Commercial/Institutional Application

Project Name (if applicable): _____

Project Address (if different than above): _____

Date of Project Completion (if known): _____

"Closing Day" of Real Estate Transaction: _____

After the Sagiper products were originally installed, has the building/project been altered or renovated in any areas with Sagiper products?

If there have been changes, please describe below.

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# WARRANTY REGISTRATION/TRANSFER FORM

## SAGIPER INTERNAL USE ONLY

☐ Warranty Registration ☐ Warranty Transfer Form

*Sagiper North America Authorization*

*(Name of New Owner)* *(Signature)* *(Date)*

Having trouble submitting this form?
Please contact us by email or phone with the contact information indicated on the first page.

sagiper
NORTH AMERICA
ARCHITECTURAL PRODUCTS

# SAGIBOND™

## SUBMITTAL PACKAGE 2026

### CONTACT US

**T** 1 780 482 3445 | **TF** 1 866 724 4737
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