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SECTION 07 42 13
METAL WALL PANELS

Kingspan Insulated Panels

QuadCore® KS Shadowline, QuadCore® KS Flat, QuadCore® KS Shadowline Interior,
QuadCore® KS Flat Interior - Insulated Wall Panel System

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Steel faced, QuadCore (polyisocyanurate) metal wall panels.
- B. Accessories including fasteners and perimeter trim.

1.2 REFERENCES

- A. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 501.4: Recommended Static Test Method for Evaluating Window Wall, Curtain Wall, and Storefront Systems Subjected to Seismic and Wind-Induced Inter-Story Drift
- B. American Society of Civil Engineers (ASCE)
 - 1. ASCE 7: Minimum Design Loads for Buildings and Other Structures.
- C. ASTM International
 - 1. ASTM A653: Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
 - 2. ASTM A755: Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products
 - 3. ASTM A792: Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
 - 4. ASTM A924: Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process
 - 5. ASTM C273: Standard Test Method for Shear Properties of Sandwich Core Materials.
 - 6. ASTM C518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

7. ASTM C591: Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation
8. ASTM D1621: Standard Test Method for Compressive Properties of Rigid Cellular Plastics
9. ASTM D1622: Standard Test Method for Apparent Density of Rigid Cellular Plastics
10. ASTM D1623: Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
11. ASTM D1929: Standard Test Method for Determining Ignition Temperature of Plastics
12. ASTM D6226: Standard Test Method for Open Cell Content of Rigid Cellular Plastics.
13. ASTM E72: Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
14. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials
15. ASTM E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

D. FM Global (FM)

1. Approval Standard 4880; Class 1 Fire Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings, and Exterior Wall Systems.
2. Approval Standard 4882; Class 1 Interior Wall and Ceiling Materials or Systems for Smoke Sensitive Occupancies

E. International Building Code (IBC): current edition

F. National Fire Protection Agency (NFPA)

1. NFPA 259: Standard Test Method for Potential Heat of Building Materials.

G. UL Canada (ULC) Approvals:

1. CAN/ULC-S101: Standard Methods of Fire Endurance Tests of Building Construction and Materials
2. CAN/ULC-S102: Standard Method of Test for Surface Building Characteristics of Building Materials and Assemblies
3. CAN/ULC-S138: Standard Method of Test for Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration

H. International Organization for Standardization (ISO)

1. ISO 14025: Environmental Labels and Declarations

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-installation meeting: Conduct a pre-installation meeting at the job site attended by Owner, Architect, Manufacturer's Technical Representative, Panel Installer, and Contractors of related trades. Coordinate structural support requirements in relation to insulated wall panel system, installation of any separate air/water barriers, treatment of fenestration, and other requirements specific to the project.

1.4 SUBMITTALS

- A. Refer to Section [01 33 00 Submittal Procedures] [insert section number and title].
- B. Product Data: Submit manufacturer current technical literature for each type of product.
- C. Shop Drawings: Submit detailed drawings and panel analysis showing:
 - 1. Profile
 - 2. Gauge of both exterior and interior sheet
 - 3. Location, layout and dimensions of panels
 - 4. Location and type of fasteners
 - 5. Shape and method of attachment of all trim
 - 6. Locations and type of sealants
 - 7. Installation sequence
 - 8. Coordination Drawings: Provide elevation drawings and building sections which show panels in relationship to required locations for structural support. Include panel details and details showing attachment to structural support.
 - 9. Other details as may be required for a weathertight installation
- D. Panel Analysis: Provide panel calculations to verify panels will withstand the design wind loads indicated without detrimental effects or deflection exceeding [L/180], [L/120]. Include effects of thermal differential between the exterior and interior panel facings and resistance to fastener pullout.
- E. Samples: Provide nominal 3 x 5 inch of each color indicated. [Provide panel width by 8 inches long minimum] [Insert size].
- F. LEED Submittals:
 - 1. Energy and Atmosphere
 - a. Energy Analysis: Demonstrating percentage of performance improvement compared with the baseline building performance rating.
 - 2. Material and Resources

- a. Building Life-Cycle Impact Reduction
- 3. Building product disclosure and optimization
 - a. Environmental Product Declaration (EPD) conforming to ISO 14025, 14040, 14044, EN 15804 or ISO 21930 with a Cradle to Grave
 - b. Sourcing of Raw Materials: publicly released reports that comply with LEED requirements for raw material source and extraction reporting
- 4. Indoor Environmental Quality
 - a. Low Emitting Materials: Compliance sheets indicating adhesives and gasket are within the published VOC emissions thresholds
- 5. Innovation in Design
 - a. Documentation for Credit: [Include specific requirements related to documenting credit.]

G. Miscellaneous Certifications:

- 1. Submit documentation certifying that products comply with provisions of the "Buy American Act" Title 41 of the US Code Sub-sections 10a through 10d.
- 2. Submit documentation that products have been certified in accordance with ISO 14025.

H. Quality Assurance Submittals

- 1. Design Data, Test Reports: Provide manufacturer test reports indicating product compliance with requirements.
- 2. Manufacturer Erection Instructions: Provide manufacturer's written installation instructions including proper material storage, material handling, and installation instructions.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications:

- 1. Manufacturer shall have a minimum of five (5) years experience in the production of insulated wall panels. Manufacturer shall demonstrate past experience with examples of projects of similar type and exposure.
- 2. Manufacturer to be registered with a Program Operator with a Certified, Environmental Product Declaration, in conformance with ISO 14025, for Insulated Metal Panels.

B. Installer Qualifications:

1. Installer shall be authorized by the manufacturer and the work shall be supervised by a person having successfully completed a manufacturer training seminar regarding proper installation of the specified product.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section [01 60 00 Product Requirements] [insert section number and title].
- B. Deliver panel materials and components in manufacturer's original, unopened, undamaged packaging with identification labels intact.
- C. Store wall panel materials on dry, level, firm, and clean surface. Stack no more than two bundles high. Elevate one end of bundle to allow moisture run-off, cover and ventilate to allow air to circulate and moisture to escape.

1.7 WARRANTY

- A. Limited Warranty: Standard form in which manufacturer agrees to repair or replace items that fail in materials or workmanship within specified warranty period. Coverage under this warranty includes panel performance, bond integrity, deflection and delamination.
 1. Warranty Period: Two (2) years from date of Substantial Completion, or 2 years and 6 months from the date of shipment from manufacturer's plant, whichever occurs first.
- B. Special Panel Finish Warranty: Submit Manufacturer's limited warranty on the exterior paint finish for adhesion to the metal substrate and limited warranty on the exterior paint finish for chalk and fade. Applicable to exterior applications.
- C. Thermal Warranty: Standard form in which manufacturer agrees to repair or replace panels that exhibit greater than 10% reduction from published material R-value at time of manufacture as measured in accordance with ASTM C518 within specified warranty period.
 1. Warranty Period: Thirty (30) years from date of sale.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Kingspan Insulated Panels Ltd. 12557 Coleraine Drive, Caledon, ON L7E 3B5 (866-442-3594); 5202-272nd Street, Langley, B.C. V4W 1S3 (866-442-3594) (www.kingspanpanels.ca);
- B. Kingspan Insulated Panels, Inc., 726 Summerhill Drive, Deland, FL 32724 (888-882-5862); 2000 Morgan Road, Modesto, CA 95358, 1509 Dewitt Ave, Mattoon, IL (800-377-5110) (www.kingspanpanels.us)
- C. Basis of Design: QuadCore KS Shadowline, QuaCore KS Shadowline Interior, QuadCore KS Flat Interior.
- D. Substitution Limitations:
 - 1. Submit written request for approval of substitutions to the Architect [a minimum of [14] days prior to the date for receipt of bids] [Insert time period]. Include the following information:
 - a. Name of the materials and description of the proposed substitute.
 - b. Drawings, cut sheets, performance and test data.
 - c. List of projects similar scope and photographs of existing installations.
 - d. Test reports indicating compliance with the performance criteria.
 - e. Other information necessary for evaluation.
 - 2. After evaluation by Architect, approval will be issued via addendum. No verbal approval will be given.
 - 3. Substitutions following award of contract are not allowed except as stipulated in Division 01 – General Requirements.

2.2 INTERIOR WALL/CEILING PANELS

A. Design Criteria:

A.1 Interior Walls

- 1. Wind Loads: [As indicated on Drawings] [+/-5PSF] [Insert positive and negative loads (psf)].
- 2. Deflection criteria shall be [L/180] [L/120] [insert project specific deflection criteria].

A.2 Ceilings

- 3. Wind Loads: [As indicated on Drawings] [Insert positive and negative loads (psf)].

4. Deflection criteria shall be [L/240] [insert project specific deflection criteria].

B. Performance Criteria:

1. Structural Test:

- a. Structural performance shall be verifiable by witnessed structural testing for simulated wind loads in accordance with ASTM E72 or ASTM E330.

2. Seismic Performance: Tested per AAMA 501.4. Panels shall be hard-fastened to structure along one edge only such that lateral slippage between panels can occur in the event of seismic activity.

3. Fire Test Response Characteristics: Steel-faced panels with QuadCorecore shall fully comply with Chapter 26 of International Building Code regarding the use of Foam Plastic.

- a. Flame Spread and Smoke Developed Tests on exposed Insulating Core:

- 1) ASTM E84 Flame spread and smoke developed indices:

- a) Flame Spread: 25 or less.

- b) Smoke Developed: 90 or less.

- 2) CAN/ULC S102 Flame spread and smoke developed indices:

- a) Flame Spread: 20 or less.

- b) Smoke Developed: 45 or less.

- b. FM 4880: Class I rated per FM Global, provided the panel assembly meets the requirements listed in FM Approvals' "Approval Guide."

- c. FM 4882: Class I rated per FM Global for smoke sensitive occupancies provided the panel assembly meets the requirements listed in FM Approvals' "Approval Guide."

- d. NFPA 259 Potential Heat Content; established for foam core.

- e. UL 263 Fire Resistive Rating; classified as a component of a fire-rated wall assembly for 1-hour, 2-hour and 3-hour rating Design No. U053 (rated assemblies include appropriate layers of fire-rated Type X Gypsum board).
[QuadCore KS Shadowline only]

- f. ASTM D1929 Minimum Flash and Self Ignition; established for foam core.

- g. CAN/ULC S101, S127, S138 UL Canada fire test standards; successfully passed when installed per listed assemblies.

4. Insulating Core: QuadCore core, ASTM C591 Type IV, CFC and HCFC free, compliant with Montreal Protocol and Clean Air Act, with the following minimum physical properties:

- a. Core is 95 percent closed cell when tested in accordance with ASTM D6226

- b. Panel shall provide a nominal R-values of 8.0 [hr·ft²·°F/Btu] per inch thickness when tested in accordance with ASTM C 518 at 75°F mean temperature and 9.0 [hr·ft²·°F/Btu] per inch thickness when tested in accordance with ASTM C 518 at 35°F mean temperature.

- c. Foam has a density of 2.1-2.6 pounds per cubic foot when tested in accordance with ASTM D1622
- d. Compressive Stress: Panels shall have a compressive stress of 24 psi. when tested according to ASTM D1621
- e. Shear Stress: 22 psi when tested in accordance with ASTM C273
- f. Tensile Stress: 21 psi when tested in accordance with ASTM D1623

C. Panel Assembly:

C.1 QuadCore KS Shadowline

- a. Panel thickness: [2 inches] [2 ½ inches] [3 inches] [4 inches] [5 inches] [6 inches] [8 inches] thick.
- b. Panel width: [42 inches] [36 inches] [30 inches] [24 inches] [As indicated on drawings].
- c. Panel Lengths: [As indicated on Drawings].
- d. Panel Attachment: Shall consist of fasteners and stainless-steel attachment clip completely concealed within the panel side joint.
- e. Panel Joint Reveals: [3/8 inch] [1/8 inch].

2. Exterior Face of Panel:

- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume®/ Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].
 - 2) Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
- b. Profile: [Shadowline]
- c. Texture: [Non-directional stucco embossed] [Smooth] [Heavy Embossed].

3. Interior Face of Panel:

- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume®/ Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].

- b. Profile: [Shadowline], [Flat]
 - c. Texture: [Non-directional stucco embossed], [smooth]
 - d. Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
4. Paint Finish: [modified polyester, dry film thickness of 1.0 mil including primer.] [PVDF finish, dry film thickness of 1.0 mil including primer] [Vinyl Plastisol, 3.0-8.0 mil including primer], [CLEANsafe 1.0-2.0 mil including primer]
- 1) Color: [USDA Imperial White] [Selected from the current Kingspan Insulated Panels stock color chart] [Custom color as selected by Architect] [Color indicated].

C.2 QuadCore KS Flat

- a. Panel thickness: [2 inches] [2 ½ inches] [3 inches] [4 inches] [5 inches] [6 inches] [8 inches] thick.
 - b. Panel width: [42 inches] [36 inches] [30 inches] [24 inches] [As indicated on drawings].
 - c. Panel Lengths: [As indicated on Drawings].
 - d. Panel Attachment: Shall consist of fasteners and stainless-steel attachment clip completely concealed within the panel side joint.
 - e. Panel Joint Reveals: [3/8 inch] [1/8 inch].
5. Exterior Face of Panel:
- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume®/ Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].
 - 2) Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
 - b. Profile: [Flat]
 - c. Texture: [Non-directional stucco embossed] [Smooth] [Heavy Embossed].
6. Interior Face of Panel:

- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume® / Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].
 - b. Profile: [Shadowline], [Flat]
 - c. Texture: [Non-directional stucco embossed], [smooth]
 - d. Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
7. Paint Finish: [modified polyester, dry film thickness of 1.0 mil including primer.] [PVDF finish, dry film thickness of 1.0 mil including primer] [Vinyl Plastisol, 3.0-8.0 mil including primer], [CLEANsafe 1.0-2.0 mil including primer]
- 1) Color: [USDA Imperial White] [Selected from the current Kingspan Insulated Panels stock color chart] [Custom color as selected by Architect] [Color indicated].

C.3 QuadCore KS Shadowline Interior

- a. Panel thickness: [2 inches] [2 ¾ inches] [3 inches] [4 inches] [5 inches] [6 inches] [8 inches] thick.
 - b. Panel width: [45 3/8 inches]
 - c. Panel Lengths: [As indicated on Drawings].
 - d. Panel Attachment: Shall consist of through fasteners.
8. Exterior Face of Panel:
- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume® / Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].
 - 2) Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
 - b. Profile: [Shadowline]
 - c. Texture: [Non-directional stucco embossed] [Smooth] [Heavy Embossed].
9. Interior Face of Panel:

- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume® / Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].
 - b. Profile: [Shadowline], [Flat]
 - c. Texture: [Non-directional stucco embossed], [smooth]
 - d. Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
10. Paint Finish: [modified polyester, dry film thickness of 1.0 mil including primer.] [PVDF finish, dry film thickness of 1.0 mil including primer] [Vinyl Plastisol, 3.0-8.0 mil including primer], [CLEANsafe 1.0-2.0 mil including primer]
- 1) Color: [USDA Imperial White] [Selected from the current Kingspan Insulated Panels stock color chart] [Custom color as selected by Architect] [Color indicated].

C.4 QuadCore KS Flat Interior

- b. Panel thickness: [2 inches] [2 ¾ inches] [3 inches] [4 inches] [5 inches] [6 inches] [8 inches] thick.
 - c. Panel width: [45 3/8 inches]
 - d. Panel Lengths: [As indicated on Drawings].
 - e. Panel Attachment: Shall consist of through fasteners.
11. Exterior Face of Panel:
- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume® / Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].
 - 2) Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
 - b. Profile: [Flat]
 - c. Texture: [Non-directional stucco embossed] [Smooth]
12. Interior Face of Panel:

- a. Material:
 - 1) Steel coil material shall be in accordance with ASTM A755: [AZ50 Galvalume® / Zinalume® (55 percent aluminum, 45 percent zinc) in accordance with ASTM A792] [Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924], [Type 304 Stainless Steel].
 - b. Profile: [Shadowline], [Flat]
 - c. Texture: [Non-directional stucco embossed], [smooth]
 - d. Gauge: [26 gauge (galvanized/galvalume steel)] [24 gauge] [22 gauge]
13. Paint Finish: [modified polyester, dry film thickness of 1.0 mil including primer.] [PVDF finish, dry film thickness of 1.0 mil including primer] [Vinyl Plastisol, 3.0-8.0 mil including primer], [CLEANsafe 1.0-2.0 mil including primer]
- 1) Color: [USDA Imperial White] [Selected from the current Kingspan Insulated Panels stock color chart] [Custom color as selected by Architect] [Color indicated].

2.3 ACCESSORIES

- A. Fasteners as recommended by manufacturer.
- B. [QuadCore KS Shadowline] Clip: 12 gauge stainless steel clip supplied by the manufacturer.
- C. Perimeter Trim:
 - 1. Fabricated perimeter trim and metal flashing: Shall be same gauge, material and coating color as exterior face of insulated metal wall panel.
- D. Sealants: Butyl, non-skinning/curing type as recommended by manufacturer.
- E. Butyl Tape: As recommended by manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Provide field measurements to manufacturer as required to achieve proper fit of the preformed wall panel envelope. Measurements shall be provided in a timely manner so that there is no impact to construction or manufacturing schedule.

- B. Supporting Steel: All structural supports required for installation of panels shall be by others. Support members shall be installed within the following tolerances:
1. Plus or minus 1/8 inch in 5 feet in any direction along plane of framing.
 2. Plus or minus 1/4 inch cumulative in 20 feet in any direction along plane of framing.
 3. Plus or minus 1/2 inch from framing plane on any elevation.
 4. Plumb or level within 1/8 inch at all changes of transverse for pre-formed corner panel applications.
 5. Verify that bearing support has been provided behind vertical joints of horizontal panel systems and horizontal joints of vertical panel systems. Width of support shall be as recommended by manufacturer.
- C. Examine individual panels upon removing from the bundle; notify manufacturer of panel defects. Do not install defective panels.

3.2 PANEL INSTALLATION

- A. Installation shall be in accordance with manufacturer's installation guidelines and recommendations.
- B. Install panels plumb, level, and true-to-line to dimensions and layout indicated on approved shop drawings.
- C. Cut panels prior to installing, where indicated on shop drawings, using a power circular saw with fine tooth carbide tip blade per manufacturer's instructions. Personnel should wear respiratory and eye protection devices.
- D. Butyl Weather Barrier Sealant:
1. Apply non-skinning butyl sealant as shown on shop drawings and manufacturer's installation instructions as necessary to establish the vapor barrier for the panels.
 2. Use non-skinning butyl tube sealant only for tight metal-to-metal contact.
 3. Do not use non-skinning butyl tube sealant to bridge gaps.
- E. Place panel fasteners as indicated by the manufacturer. For clip installation, place fasteners through pre-punched holes in attachment clips, concealed within the joint of the panel. Secure units to the structural supports. Space fasteners as recommended by manufacturer or otherwise indicated on the approved shop drawings.
- F. TRIM INSTALLATION
1. Place trim and trim fasteners only as indicated per details on the approved shop drawings.
 2. Place a continuous strip of butyl tube/tape sealant between the inside back face of closure trims and interior panel faces for proper vapor seal.

G. SEALANT INSTALLATION FOR EXPOSED JOINTS

1. Clean and prime surfaces to receive exterior exposed sealants in accordance with sealant manufacturer's recommendations.
2. Follow sealant manufacturer's recommendations for joint width-to-depth ratio, application temperature range, size and type of backer rod, and compatibility of materials for adhesion.
3. Direct contact between butyl and silicone sealants shall not be permitted.

3.3 FIELD QUALITY CONTROL

- A. Testing Agency: General Contractor shall engage an independent testing and inspection agency acceptable to the architect to perform field tests and inspections and to prepare reports of findings.

3.4 CLEANING AND PROTECTION

- A. Remove protective film immediately after installation.
- B. Touch-up, repair or replace metal panels and trim that have been damaged.
- C. After metal wall panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

END OF SECTION

DISCLAIMER:

Kingspan Insulated Panels Guide Specifications have been written as an aid to the professionally qualified Specifier and Design Professional. The use of this Guideline Specification requires the sole professional judgment and expertise of the qualified Specifier and Design Professional to adapt the information to the specific needs for the Building Owner and the Project, to coordinate with their Construction Document Process, and to meet all the applicable building codes, regulations and laws. KINGSPAN INSULATED PANELS EXPRESSLY DISCLAIMS ANY WARRANTY, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OF THIS PRODUCT FOR THE PROJECT.