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EVALUATION CENTER
Intertek Testing Services NA Ltd.
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Canada

RENDERED TO

ALUCOIL S.A.
POLÍGONO INDUSTRIAL DE BAYAS
C//IRCIO. PARCELAS R-72/77
09200 MIRANDA DE EBRO, BURGOS
SPAIN

PRODUCT EVALUATED:

larson® by Alucoil S.A FR 3 mm Aluminum Composite Panel
larson® by Alucoil S.A FR 4 mm Aluminum Composite Panel
larson® by Alucoil S.A FR 6 mm Aluminum Composite Panel
larson® by Alucoil S.A PE 3 mm Aluminum Composite Panel
larson® by Alucoil S.A PE 4 mm Aluminum Composite Panel
larson® by Alucoil S.A PE 6 mm Aluminum Composite Panel

This report documents the Quality Control Program maintained by Alucoil® at Miranda de Ebro, Spain based on observations made during a site visit on November 19 & 20, 2012. The Client is solely responsible for implementing and maintaining the Quality Control Program and maintaining product compliance with the applicable requirements of WH Certification.

This 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 copy or distribute this report and then only in its entirety. 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. The observations in this report are relevant only to the site visit as identified above. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. Further, Intertek does not assume responsibility for the Client's Quality Control Program and Intertek does not operate any Quality Control Program on behalf of the Client.

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2 General Information

2.1 PRODUCT DESCRIPTION

larson® by Alucoil® PE Aluminum Composite Panels (referred to hereafter as “PE” panels) are metal composite panels comprised of a 0.5 mm aluminum skin and a Low-Density Polyethylene (LDPE) core material. The PE panels are available in thicknesses of 3 mm, 4 mm, and 6 mm.

larson® by Alucoil® FR Aluminum Composite Panels (referred to hereafter as “FR” panels) are metal composite panels comprised of a 0.5 mm aluminum skin and an LDPE and Magnesium-Hydroxide blend core material intended for fire-resistive applications. The FR panels are available in thicknesses of 3 mm, 4 mm, and 6 mm.

The skins are coated with PVDF or HQPE paint and a protective film on one surface and a service coating on the other surface.

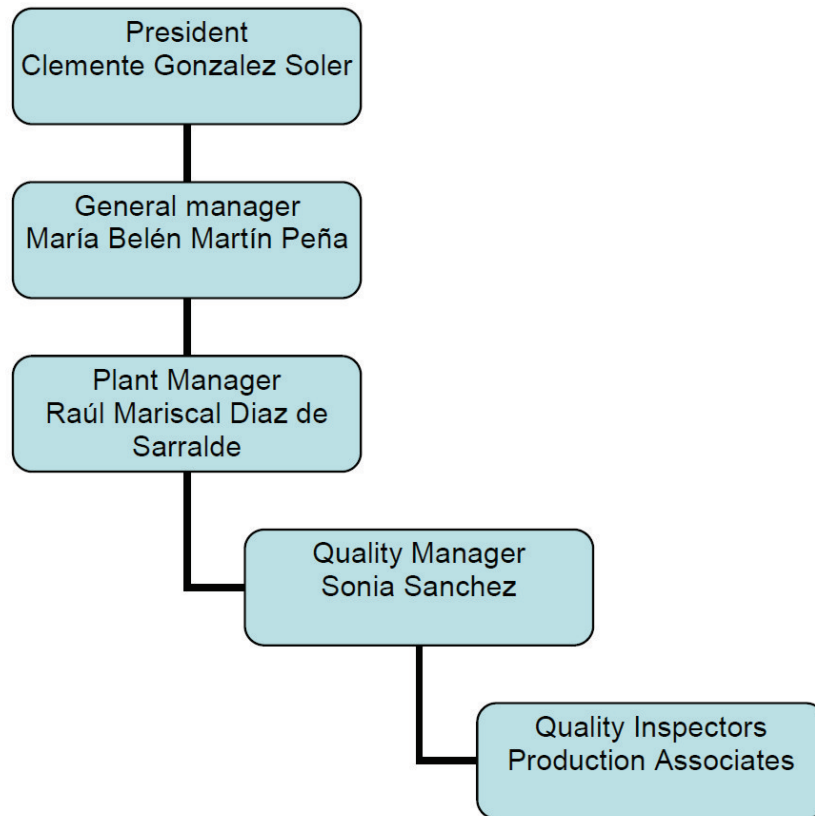
2.2 MANUFACTURER'S INFORMATION

	Owner/Listee of Product and Listing
Company Name:	Alucoil S.A. (Alibérico Group)
Address:	Pol. Ind de Bayas. C/ Ircio. Parc: R72 – R77 09200 Miranda de Ebro (Burgos) – SPAIN
Tel:	947.33.33.20 / 80
Fax:	947.32.49.13
Email:	Borja.sobrino@alucoil.es
Contact Person:	Borja Sobrino Simón
Hrs of Operation:	-

2.3 QUALITY CONTROL PERSONNEL

Borja Sobrino Simón is the Project Developer at Alucoil in Miranda de Ebro. He is responsible for implementing and maintaining the quality control programs at Miranda de Ebro. Sonia Sanchez Garcia manages the quality control testing laboratory for tests and inspection of raw materials to finished products.

An organization chart is included below.



3 Incoming Materials

3.1 APPROVED MATERIALS SUPPLIERS AND SPECIFICATIONS

Material	Supplier(s)	Specification / Grade
Painted aluminum coil	Various	0.5 mm thick (+5/-0%) Min. coil weight – 1000 kg 5005 H42 Aluminum alloy per Norm EN 573/3. Tensile Strength of minimum 130 MPa. Arrives coated (PVDF or HQP) and primed. See specifications in Appendix. Compliant with ASTM B209
LDPE for FR panels	Versalis - eni	Refer to <i>Low Density Polyethylene</i> technical specification. Versalis CoA attached in Appendix.
LDPE for PE panels	Eslava	LDPE NATURAL subestándar per UNE 53976. Refer to CoA.
Magnesium Hydroxide (Mg(OH) ₂)	Nuova SIMA	Refer to <i>MdH – Magnesium Hydroxide</i> technical specification. “Hydrofy G 10” CoA in Appendix.
Compatibilizer	Polyram	Grade: Bondyram 4108 Refer to Polyram CoA in Appendix.
FR bonding film	Du Pont	BYNEL® 30E753 Adhesive Resin coextruded with LDPE. Refer to CoA in Appendix.
Desiccant	Quimidroga	PE ML1820 Absorber compliant with DIN EN 10204-3.1. Refer to CoA in Appendix.
Antioxidant	Kingyorker	KingNox® - 10P. Refer to CoA in Appendix.
PE glue	Du Pont	BYNEL® 4157 Adhesive Resin. Refer to CoA in Appendix.

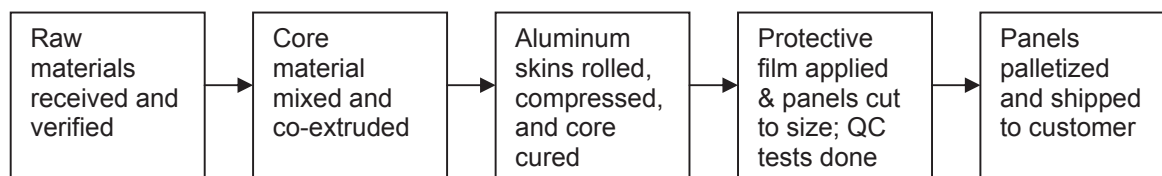
3.2 QUALITY CONTROL FOR INCOMING MATERIALS

Material/Property/Process	Test Frequency	Test Procedure	Specification/Tolerance
Painted aluminum coil	Each order received	Collect mill cert.	Per 5005 H42 specs (Norm EN 573/3)
		Visual	Verify no shipping damage
		Visual	Verify correct paint colour (chip sample)
		Gloss meter	40 UG per EN 13523-2
		Mill thickness	Verify within +5/-0%
Bonding film	Each order received	Visual	Inspect for shipping damage, record Lot number and verify part number
LDPE Core material	Each order received	Collect CoA	Within spec.
		Visual	Check for shipping damage and verify part no. & weight.

All incoming raw material batches (in addition to those noted in the table above) have their CoAs collected and verified correct to be within Alucoil’s specifications.

4 Manufacturing Process

4.1 PRODUCTION FLOWCHART



4.2 FORMULATION AND/OR ASSEMBLY SPECIFICATIONS

Alucoil manufactures its FR core material in a proprietary mixture of raw materials included in Section 3.2 or this manual. The proprietary formulation was witnessed by Intertek engineer Adam Mantei at Alucoil’s location in Miranda de Ebro. The document is entitled “Fire Retardant Compound for Aluminum Composite Material” and was witnessed and signed on Nov. 20, 2012. Follow-up inspections must verify that the signed copy kept on file matches the FR formulation in use for production of FR panels.

Material specifications for the remaining component materials are not proprietary and can be found in Section 3 of this manual.

4.3 DESCRIPTION OF PRODUCTION METHODS AND CONTROLS

To ensure the aluminum composite panel line runs to predefined parameters, controlled documents are placed in work area to help assist operators in performing their jobs. These documents provide information to assist operators in performing their jobs, provide operating parameters based on type of product being run and serve as records for data captured when running product.

Work Orders (“Orden de Fabricacion”) are used to communicate details for job being run and can also provide customer specific details for job if applicable. Work order numbers are referenced on Quality documents to link quality data captured during production run.

At the end of the day, all Quality documents in work areas used to capture data when product was run, is collected and attached with the work orders to the Daily Production Report for recording keeping. These documents are filed away for future reference.

Due to variability in materials, set ranges are prescribed for mix times, pressures, temperature, speed and etc. These variables however are monitored and adjusted as needed to produce a quality product within finished product specifications.

4.4 QUALITY CONTROL DURING MANUFACTURE

Material/Property/Process	Test Frequency	Test Procedure	Specification/Tolerance
Record Core Material Usage	All production	<i>Orden de fabricacion</i> Information recorded through Microsoft Dynamics AX software and on the form FR-IT-05C-09-01	Record time, mat'l type, mix ratio, supplier, lot and batch number
Record Line Settings			Record order number, time, operator, speeds, temperatures, panel temps, plate thickness and humidity
Record Coil and Adhesive			Record order number, part number, times, top coil lot number, and adhesive lot numbers
Track scrap usage			Record reject tickets used and type of defects found with descriptions

All product at Alucoil in Miranda is controlled and recorded through Microsoft Dynamics AX and through the form “Orden de Fabricacion” distributed to staff for that shift’s production.

5 Finished Products

5.1 FINISHED PRODUCT SPECIFICATIONS

larson® by Alucoil® PE products

larson® by Alucoil® PE Aluminum Composite Material consists of two 0.5 mm aluminum laminates joined together by a black thermoplastic resin polyethylene (PE) core material. Standard widths are 1000, 1250 and 1575 mm; 1270 mm and 1575 mm widths may also be maintained. The product is available in Lengths from 2000 mm to 8000 mm.

- larson® by Alucoil® PE 3 mm Aluminum Composite Material
- larson® by Alucoil® PE 4 mm Aluminum Composite Material
- larson® by Alucoil® PE 6 mm Aluminum Composite Material

The total thickness in mm of the above products is 3mm, 4mm or 6mm. Product weights are 4.52 kg/m², 5.5 kg/m² and 7.25 kg/m² respectively.

larson® by Alucoil® FR products

larson® by Alucoil® FR Aluminum Composite Material consists of two 0.5 mm aluminum laminates joined together by an off-white / tan mineral filled core material Magnesium Hydroxide blend. Standard widths are 1000, 1250 and 1575 mm; 1270 mm and 1575 mm widths may also be maintained. The product is available in lengths from 2000 mm to 800 mm.

- larson® by Alucoil® FR 3 mm Aluminum Composite Material
- larson® by Alucoil® FR 4 mm Aluminum Composite Material
- larson® by Alucoil® FR 6 mm Aluminum Composite Material

The above FR product is available in total thickness of 3 mm, 4 mm or 6 mm and with product weights of 6 kg/m², 7.65kg/m² and 10.9 kg/ m² respectively.

5.2 QUALITY CONTROL ON FINISHED PRODUCTS

Material/Property/Process	Test Frequency	Test Procedure	Specification/Tolerance
Dimensions, shape, flatness, appearance	All production	<i>Inspección visual laboratorio en las líneas</i> FR-IT-05C-10-01: <i>Inspección Cualitativa / Control de Calidad</i> <i>Instrucción Técnica: Controles en la Línea de composite</i>	Measure & record: Width +2.5/-0.0 mm Length +10.0/-0.0 mm Diag. diff. ± 3.0 mm Size and mid. Deviation: ±0.2 max Flatness max 0.8% Thickness +2.0/-0.0 mm Adhesion Overall visual quality
Labelling	All production	Per QMF0037	Verify size, count, an inspect for damage
Quality testing	Reference QMF0031 for inspection frequency	Per FR-IT-05C-09-01	Reference quality forms for bond strength requirements

5.3 EVALUATION OF UNLISTED COMPONENTS

There are no unlisted components at this time.

5.4 PACKAGING AND STORAGE OF FINISHED PRODUCTS

Finished panels are palletized with in-line lifts and forklifts such that the largest panels are at the bottom and any gaps in the stacks of panels are filled with foam or cardboard to prevent damage to upper boards.

6 Disposition of Non-Conforming Materials

6.1 POLICY AND PROCEDURE

All products found to be non-conforming to the specifications defined in Sections 3 through 6 of this document will be segregated and clearly marked as non-conforming. The following procedure is in place to investigate the cause of non-conformances, fix the problem, and to re-evaluate materials before they are released as certified products:

Materials or products found to be non-compliant will be removed from production flow. The associate who found the nonconformance will place a reject ticket (FR-PG-06-03) on material and move to the reject area for disposition. Associate will notify Quality Manager. The Material Review Board team consisting of the Plant Manager, Quality Manager, Supervisor, Buyer and Office Administrator will determine course of action for rejected materials. Disposition may include, scrapping, returning to vendor, rework or other. All Panels found to be nonconforming off of the ACM line during a production run will be recorded on form FR-PG-06-05.

6.2 DEFINITION OF MAJOR AND MINOR DEFECTS

A table that distinguishes major and minor defects is provided. The table also shows the disposition/rework of the unit with defects. Any deviation not contained in the table is to be reported to Intertek Testing Services NA so that a determination as to how it should be addressed can be made.

Defect	Disposition/Rework
Minor Defects	
Dirt, debris or very minor scratches Small dimples (not systemic) Flow lines, Streaks, mottling in paint Mill chatter in aluminum	Based on severity, decisions will be made to accept or to scrap. If panel can be cut down to smaller size to remove defect, panel will be Reworked and a new part number issued
Major Defects	
Dimensional (gauge, width, length, flatness) Bond strength Paint adhesion Paint color appearance	Separate from production flow for disposition. Notify customer if applicable. Containment to last "good" inspection point.

6.3 COMPLAINTS PROCEDURE

Customer complaints requiring corrective action will have an 8D Report Form (QMF0015) completed by the Quality Manager. The Quality Manager will assign responsible party to lead the investigation to determine root cause and will be responsible for the corrective action plan. The Quality Manager will follow up on implementation. Upon completion of investigation and implementation of plans the 8D report form shall be signed by the responsible party and logged electronically into the NCM database and saved

for at least 10 years. Findings are communicated back to customer by either the Quality Manager or by Alucoil sales agent.

7 Measuring and Test Equipment

7.1 STANDARDIZATION OF QUALITY CONTROL EQUIPMENT

All measuring equipment used in the manufacturing and testing processes is calibrated and traceable to national standards, by means of an accredited outside calibration provider, or documented in-house procedures approved by Intertek.

7.2 EQUIPMENT AND PRODUCTION LINES

There are three production lines: one that produces FR panels and two that product PE panels.

7.3 MANUFACTURING & QUALITY CONTROL EQUIPMENT

Calibration records for all measuring and testing equipment are maintained by the Quality Manager in the calibration database. All tools used to measure quality are sent to a certified outside lab to be calibrated except for Straight Edges, Feeler Gages, and Tape Measures which are calibrated using in house procedures.

The physical condition of a tape measure, square or protractor is visually evaluated quarterly or more often for readability. When any area of the measuring device becomes unreadable or any section becomes unusable, the measuring device is replaced. Tape measures, squares and protractors can be replaced with any similar device that conforms to the above specifications.

All measuring equipment used in the manufacturing and testing processes are calibrated and traceable to national standards, by means of an accredited outside calibration provider, or documented in-house procedures approved by Intertek. Documentation must be maintained showing that equipment placed in service is traceable to NIST standards by an ISO/IEC 17025 accredited calibration laboratory.

8 Labeling, Traceability, and Records

8.1 POLICY OF TRACEABLE LABEL AND RECORDS

For each procedure defined in Sections 3 – 8 of this document, Quality Control Forms, Checklists, and Reports exist to record that all the specifications are met. The quality manager checks all records, and records are kept for at least 3 years. This requirement includes third-party inspection reports. The product label contains information to track the product back to the specific records covering the production and quality control of that production lot.

8.2 DESCRIPTION OF LABEL AND TRACEABILITY

Alucoil uses the identification sheet (move ticket) QMF0037 and will print information for traceability on the back of panels. Information will include date, shift, and product identification. This information can be traced to raw materials and production through the *Orden de Fabricacion* and the information contained within the Microsoft Dynamics AX software package.

9 Policies and Instructions for Third-Party Certification

9.1 PERIODIC THIRD-PARTY TESTING

No periodic third party testing is scheduled at this time.

9.2 AUTHORIZED LISTING MARK

The Intertek Certification Mark(s), also known as Labels, referenced in this document on the following page(s), is (are) the only one(s) licensed to be applied to the Intertek Certified Product. The Intertek Certification Mark(s) may be applied as a label, as a rubber stamp, or as an imprint on the packaging on the Intertek Certified Product produced at the client's facility. The Intertek Certification Mark should be applied either to packaging containing the Intertek Certified Product or onto the surface of Intertek Certified Product. Intertek Certification Marks should be tamper proof to prevent removal from the surface, without being noticed, to which it is originally attached. Each Intertek Certification Mark and its method of use remain the copyrighted property of Intertek, in accordance with the Listing Agreement Contract.

Any use of the Intertek Certification Marks shall be in accordance with provisions set forth by Intertek. The client shall be responsible for obtaining the Intertek Certification Marks and maintaining the appropriate control over them. When labels or labeling devices are used, they shall be kept in a secure area. Products to be labeled shall successfully pass scrutiny of Quality Control personnel, who shall determine that the product complies with the specifications stated in this Quality Control Manual prior to applying the Intertek Certification Mark.

9.3 QUALITY CONTROL MANUAL REVISIONS

Some approval agencies, evaluation services, regulatory agencies and accreditation bodies require that an annual review of Quality Control Manuals be conducted. This review is based upon the unannounced audits that are conducted by our Inspector, information forwarded by the client for evaluation, and comparison of the Listed product's report issued by the approval agencies, evaluation services, regulatory agencies and accreditation bodies.

Any change to a process or material or any information contained in the Quality Control Manual must be reported to Intertek in writing. No change to a process or material is to be made without the express written consent of Intertek. *Change in the company name and change of location are also required to be reported before manufacturing product.*

Intertek accepts changes to a Listed product based on an additional test program or engineering evaluations or both. Any change to a Listed product that is desired (such as substituting a raw material, changing its appearance, altering a component, simplifying the manufacturing process or improving the Listed product) must observe the following procedure:

1. Notify Intertek in writing to request an evaluation of the proposed changes. Include a clear description and detailed drawings, if required, showing exactly what is involved, and state reason(s) for the requested changes (modifications).
 2. After the evaluation, Intertek will, or will not, require additional testing. If additional testing is required, the client will pay for all costs. These costs include, but are not limited to, sample acquisition, preparation, testing and revision to the Quality Control Manual.
 3. Intertek will accept all changes that comply with the requirements in this Quality Control Manual or the additional testing. The client shall proceed with the changes only after written authorization is received from Intertek.
-

If changes accepted by Intertek require a "Revision" to the Quality Control Manual, then the proposed changes shall be incorporated and the "Revision" distributed to the holders. A record of revisions will be maintained as a Revision Summary in the Quality Control Manual.

9.4 QUALITY CONTROL INSPECTIONS

9.4.1. Inspection Frequency

The Inspections shall occur four times per year. All Inspections shall be on an unannounced basis. This shall remain constant unless discrepancies are noted which, in the opinion of Intertek's Inspector, give reasonable doubt as to the Product's ability to meet the test requirements. Should these doubts arise, additional Inspections may be deemed necessary.

The qualification testing for the Intertek Certified Product(s) consisted of the Tests as shown in the Intertek *Directory of Listed Building Products*. The Directory should be referenced for recognized designs and specific details concerning these products.

9.4.2. Inspection Results and Discrepancies

Inspection Report Form

At the completion of the Quality Control Inspection, the inspector will complete an Intertek Periodic Inspection Form. The completed form will show the date and time of the Inspection, the company and product inspected, and the results of the inspection. If no discrepancies were found, the inspector will so note on the form and deliver it to the appropriate designee of the manufacturer. The original form shall be forwarded to Intertek's Certification Department for inclusion in the client's records. A copy will be given to the client.

Minor Inspection Discrepancy

Upon the discovery of a (minor) discrepancy which, in the opinion of our Inspector, is not likely to affect the quality of the finished product, the Inspector shall note said discrepancy on the Variance Report Form. The client or their designee shall be requested to notify, in writing, our offices in Middleton, WI or Toronto, ON of the methods used to correct the discrepancy. If the discrepancy is insignificant in the opinion of Intertek, then the Quality Control Manual may be up-dated to include such discrepancy as normal and meeting the qualification requirements.

Major Inspection Discrepancy

Should our Inspector discover a discrepancy which is felt to be severe (major) and likely to affect the manufacture of a product which meets the minimum requirements set forth in this document, the Inspector shall do the following: (1) Immediately notify, by telephone, Intertek office in Middleton, WI or Toronto, ON. (2) Our client shall be notified to stop production or cease use of the Intertek Certification Mark. When the major discrepancy has been corrected to the satisfaction of Intertek, the Listing will be re-instated and the Intertek Certification Mark again applied to the product. Major discrepancies shall be resolved by re-testing or reverting to the Quality Control Manual requirements. All products manufactured during the major discrepancy period are unqualified for the Listing.

Option 1 - If the client decides to revert to the Quality Control Manual requirements, then the following applies: All product made during the major discrepancy period shall be "recalled" or the purchasers notified, in writing, that the Intertek Label was affixed to product manufactured outside the Quality Control Manual requirements. Copies of all production records, shipping records, and purchaser notifications relating to the major discrepancy shall be given to the Intertek Inspector and forwarded to Intertek.

Option 2 - If the client decides to continue the Listing with this major discrepancy as acceptable to

“grandfather” product incorrectly Labeled, then the following applies: The Intertek Inspector shall randomly select specimens produced during the discrepancy period for retest. These specimens will be marked using the Intertek Inspector’s initials and date and shipped to Intertek. The client is not authorized to affix the Intertek Certification Mark on any product manufactured during the retest period.

Upon receiving written notification from Intertek of successful completion of the re-test, Labeling may resume. Grandfather Clause -- All materials produced during the discrepancy period will be qualified for Listing also.

If the product fails to meet the requirements, then the following applies: All product made during the major discrepancy period shall be recalled or the purchasers notified, in writing, that the Label was affixed to product manufactured outside the Quality Control Manual requirements. Copies of all production records, shipping records, and purchaser notices relating to the major discrepancy shall be given to the Intertek Inspector and forwarded to Intertek.

9.5 THIRD PARTY QUALITY CONTROL AND FOLLOW-UP

9.5.1. Certification Body and Inspection Agency

Inspection services are being provided on a routine unannounced basis by Intertek, which is recognized to comply with ISO 17020. Intertek has been recognized by various approval agencies, evaluation services, regulatory agencies, and accreditation bodies as a qualified independent third party inspection agency.

The Certification Department, which is recognized to comply with ISO Guide 65, gives due notice of any changes it intends to make in the program requirements in writing to all clients. Before making any changes, the Certification Department makes public its intent to change the program and takes into account the views expressed by interested parties before deciding on the precise form and effective date of the changes. Views of interested parties are not solicited for changes that are imposed through regulatory requirements. However, notice is given regarding these changes. Following a decision on, and publication of, the changed requirements, the Certification Department verifies that each client makes any necessary adjustments within such time as, in the opinion of the Certification Department or regulatory authority, is reasonable.

Intertek approvals, recognition and accreditation certificates are posted or accessible at www.intertek-etlsemko.com.

9.5.2. Policy

It is the client’s policy, to strive at all times to produce a consistent, quality product. The Quality Control procedures shall be administered carefully and consistently, to ensure that the routine production is in accordance with this Quality Control Manual. This helps to ensure that the performance criteria, which qualified the Intertek Certified Products for Certification are still being met. The Intertek Certified Products manufactured will have no defects that will compromise product performance or safety. To provide additional assurances that the quality goals are being met, the client has retained Intertek to be an independent Inspector for their Intertek Certified Product.

9.5.3. Product Requirements

All Intertek Certified Products manufactured under this Quality Control Manual shall conform to the material and dimensional specification of the unit(s) tested and described herein or as subsequently approved through the updating procedure called a “Revision.”

It is the client’s responsibility to maintain a program of production, inspection, and Quality Control to assure compliance of the Intertek Certified Product with Intertek’s requirements stated herein.

The client shall notify Intertek in the event that production of the Intertek Certified Product ceases due to equipment or raw material problems, which could affect the quality of the Intertek Certified Product and its fire performance. Occurrences which are a normal part of business operations (such as routine maintenance, service, and shipping delays) are not required to be reported.

9.6 MODEL BUILDING CODE REQUIREMENTS

9.6.1. Building Code Reports

Model Building Code names or report numbers will only be used on Intertek Certified Products in compliance with the published Model Building Code report.

9.6.2. Investigation and Response To Field Complaints

When the client gains recognition of the Intertek Certified Product through a Type Approval issued by the USCG or ABS, or a Model Building Code Report, the client agrees to promptly investigate and respond to that Model Building Code Group or building official when apprised by those parties of complaints concerning product performance.

9.6.3. Inspection By Code Groups

When the client gains recognition of the Intertek Certified Product through a Model Building Code Report, the client agrees to allow Model Building Code group to examine the records and manufacture of any Intertek Certified Product. This examination can take place at distribution points or manufacturing plant(s) or both. Individuals employed or retained by Model Building Code groups to inspect performance and determine conformance with the Model Building Code Report shall perform such examination.

9.6.4. Building Code Reports

The manufacturer will notify the approval agency, regulatory body, code official accreditation service, and other applicable model code groups, in writing if the product changes from what was originally recognized in a report.

Many Model Building Code groups and Fire Marshals require any organization, which was notified of the installation of this Product Certification, to be informed in writing of the occurrence of any of the following:

- Cancellation of the Program
- Unresolved major discrepancies found during Quality Control Inspections (within 10 days)
- Inspections not conducted as required

INTERTEK TESTING SERVICES NA LTD.

Reported by:



Adam Mantel, EIT
Engineer, Building Products

Reviewed by:



Kal Kooner, P.Eng.
Manager, Engineering Services
