



# **LISTING REPORT - MANUFACTURING**

ISSUED: Mar 8 2022 12:04PM

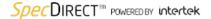
INSPECTION TESTS AND EVALUATION OF Pacific Woodtech Corporation - PWI Wood I-Joists (23357)

#### **RENDERED TO**

Pacific Woodtech Corporation 1850 Park Lane PO Box 465 Burlington, WA 98233 United States

**GENERAL:** This report gives the results of the inspection, tests and evaluation of the above for compliance with applicable requirements of the following standards: CAN / ULC S101 (2007), ASTM E119 (2008a), ASTM E119 (2010), ASTM E119 (2014)

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 permit copying or distribution of 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 and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service must have been under an Intertek certification program.



## PRODUCT DESCRIPTION

### **Product Covered:**

Pacific Woodtech Corporation - PWI Wood I-Joists

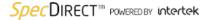
### **Product Description:**

Structural Members for use in Fire Rated floor/ceiling assemblies;

Joist	Joist Depth		Flange			Web	
Series	Min.	Max.	Thick.	Width	Material	Thicknes	sMaterial
PWI 20	9-1/2"	14"	1-3/8"	1-3/4"	PW LVL	3/8"	OSB
PWI 30	9-1/2"	11-7/8"	1-1/2"	1-1/2"	PW LVL	3/8"	OSB
PWI 40	9-1/2"	16"	1-3/8"	2-5/16"	PW LVL	3/8"	OSB
PWI 45	9-1/2"	16"	1-3/8"	2-1/16"	PW LVL	3/8"	OSB
PWI 47	9-1/2"	24"	1-1/8"	2-5/16"	PW LVL	3/8"	OSB
PWI 50	9-1/2"	16"	1-1/2"	1-3/4"	PW LVL	3/8"	OSB
PWI 60	9-1/2"	16"	1-3/8"	2-5/16"	PW LVL	3/8"	OSB
PWI 70	11-7/8"	20"	1-1/2"	2-5/16"	PW LVL	3/8"	OSB
PWI 77	9-1/2"	24"	1-1/2"	2-5/16"	PW LVL	7/16"	OSB
PWI 90	9-1/2"	24"	1-1/2"	3-1/2"	PW LVL	7/16"	OSB

See Enclosed Listing Designs

Attribute	Value
Criteria	CAN / ULC S101 (2007)
Criteria	ASTM E119 (2008a)
Criteria	ASTM E119 (2010)
Criteria	ASTM E119 (2014)
CSI Code	06 17 33 Wood I-Joists
Fire Resistance	2 Hour Fire Rated
Fire Resistance	1 Hour Fire Rating
Fire Resistance	90 Minute Fire Rated
Fire Resistance	45 Minute Fire Rated
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	PREFABRICATED JOISTS
Listing Section	ROOF/CEILING, FLOOR/CEILING, BEAM & COLUMN ASSEMBLIES
Report Number	3184537COQ-004, 101938600SAT-003
Spec ID	23357
Verification Testing	No



## **DRAWING INDEX**

Design Listing PWT WIJ 120-01

Design Listing PWT WIJ 45-01

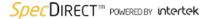
Design Listing PWT WIJ 60-01

Design Listing PWT WIJ 60-02

Design Listing PWT WIJ 60-03

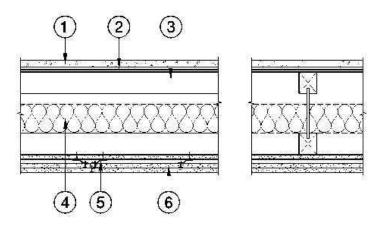
Design Listing PWT WIJ 60-04

Design Listing PWT WIJ 60-05



CSI Code 06 17 00 CSI Code 06 17 33

#### DESIGN NO. PWT/WIJ 120-01 ASSEMBLY RATING: 120 MINUTES FLOOR/CEILING ASSEMBLY

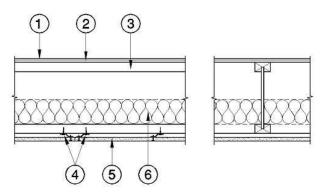


- 1. Topping (Optional): Lightweight concrete or proprietary topping.
- 2. **Sub-Flooring**: Minimum 5/8 in. plywood or oriented strandboard (OSB). Sub-flooring installed perpendicular to joists, with end joints staggered, fastened in accordance with Code requirements.
- 3. **Structural Members**: Pacific Woodtech Corporation PWC Series I-joists having a minimum depth of 9 ½ in., installed at 24 in. on centers maximum.
- 4. **Insulation (Optional):** Max. 6 in. fiberglass or rockwool batt insulation, friction fit between webs, and supported using wires every 16 in..
- 5. Resilient Channels: Minimum 25 gauge galvanized steel resilient channels installed perpendicular to joists and spaced 16 in. on centers maximum. Additional channels required at gypsum wallboard end joints such that each board end rests on its own channel. These additional channels shall extend to the next joist on each side of the board edges. Channels fastened with two 1-5/8 in. long Type S screws at each joist intersection.
- 6. Gypsum Board: Three layers of 5/8 in. Type C gypsum wallboard. Base layer applied directly to joists, installed with long dimensions perpendicular to joists with end joints butted over joists and staggered 24 in. minimum. Base layer fastened with 1-5/8 in. Type S screws, spaced 12 in. on centers at the joints and in the field. Middle and Face layer installed over channels with long dimension perpendicular to resilient channels and edges, staggered 24 in. from base layer end joints. Middle layer fastened with 1 in. Type S screws located 12 in. on centers t the joints and in the field. Face layer fastened with 1-7/8 in. Type S screws are placed 8 in. on centers at joints and in the field. (Screw lengths are minimums).

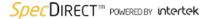


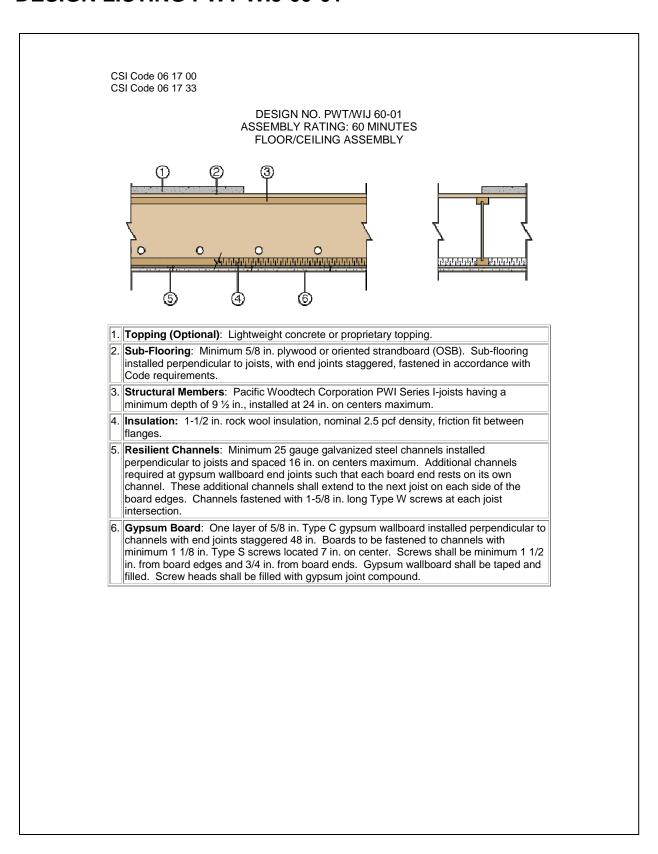
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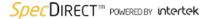
> DESIGN NO. PWT/WIJ 45-01 ASSEMBLY RATING: 45 MINUTES FLOOR/CEILING ASSEMBLY



- 1. Topping (Optional): Lightweight concrete or proprietary topping.
- 2. **Sub-Flooring**: Minimum 5/8 in. plywood or oriented strandboard (OSB). Sub-flooring installed perpendicular to joists, with end joints staggered, fastened in accordance with Code requirements.
- 3. Structural Members: Pacific Woodtech Corporation PWI Series I-joists having a minimum depth of 9 ½ in., installed at 24 in. on centers maximum.
- 4. Resilient Channels: Minimum 25 gauge galvanized steel channels installed perpendicular to joists and spaced 16 in. on centers maximum. Additional channels required at gypsum wallboard end joints such that each board end rests on its own channel. These additional channels shall extend to the next joist on each side of the board edges. Channels fastened with 1-5/8 in. long Type W screws at each joist intersection.
- 5. Gypsum Board: One layer of 5/8 in. Type C gypsum wallboard installed perpendicular to channels with end joints staggered 48 in. Boards to be fastened to channels with minimum 1 1/8 in. Type S screws located 7 in. on center. Screws shall be minimum 1 ½ in. from board edges and 3/4 in. from board ends. Gypsum wallboard shall be taped and filled. Screw heads shall be filled with gypsum joint compound.
- 6. **Insulation (Optional):** Maximum 3-1/2 in. fiberglass batt insulation or 2 in. rock wool insulation, nominal 2.5 pcf density, friction fit between flanges.

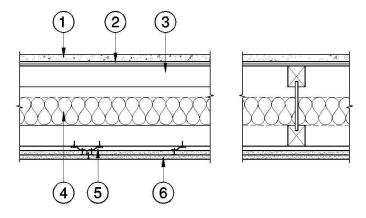






CSI Code 06 17 00 CSI Code 06 17 33

> DESIGN NO. PWT/WIJ 60-02 ASSEMBLY RATING: 60 MINUTES FLOOR/CEILING ASSEMBLY

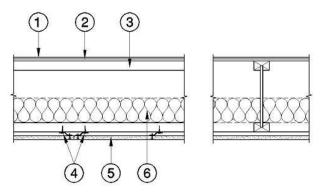


- 1. Topping (Optional): Lightweight concrete or proprietary topping.
- 2. **Sub-Flooring**: Minimum 5/8 in. plywood or oriented strandboard (OSB). Sub-flooring installed perpendicular to joists, with end joints staggered, fastened in accordance with Code requirements.
- 3. Structural Members: Pacific Woodtech Corporation PWI Series I-joists having a minimum depth of 9 ½ in., installed at 24 in. on centers maximum.
- 4. Insulation (Optional): Maximum 3-1/2 in. fiberglass batt insulation, friction fit between flanges or webs.
- 5. Resilient Channels: Minimum 25 gauge galvanized steel channels installed perpendicular to joists and spaced 16 in. on centers maximum. Additional channels required at gypsum wallboard end joints such that each board end rests on its own channel. These additional channels shall extend to the next joist on each side of the board edges. Channels fastened with 1-5/8 in. long Type W screws at each joist intersection.
- 6. **Gypsum Board**: Two layers of 1/2 in. Type X gypsum wallboard. Base layer to be installed with long dimensions perpendicular to supports with end joints butted over supports and staggered 24 in. minimum. 1-1/8 in. Type S screws are spaced 12 in. on centers at the joints and in the field. Face layer installed with long dimension perpendicular to supports and edges, staggered 24 in. from base layer end joints. 1-5/8 in. Type S screws are placed minimum 12 in. on centers on intermediate supports, 1 1/2 in. Type W screws 8 in. on centers at butt joints.



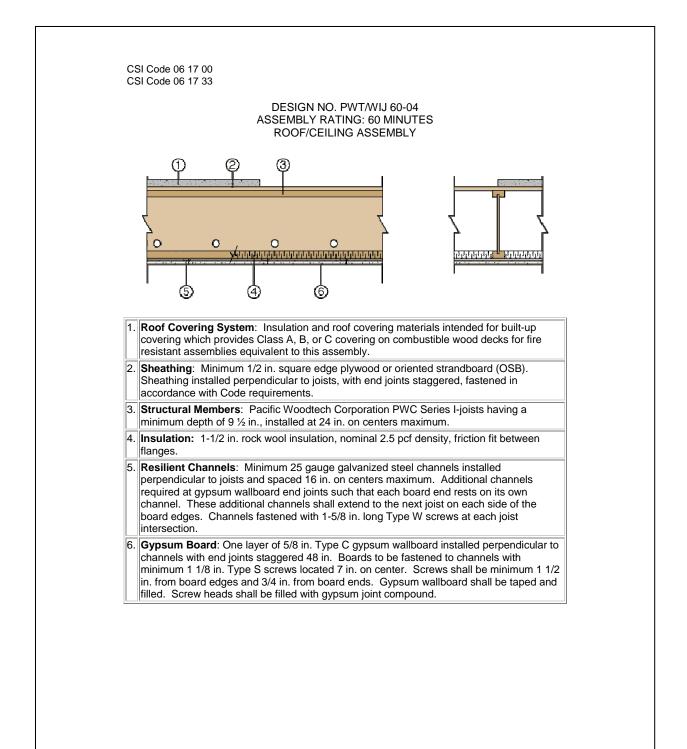
CSI Code 06 17 00 CSI Code 06 17 33

> DESIGN NO. PWT/WIJ 60-03 ASSEMBLY RATING: 60 MINUTES FLOOR/CEILING ASSEMBLY FINISH RATING: 24 MINUTES



- 1. Topping (Optional): Lightweight concrete or proprietary topping.
- 2. **Sub-Flooring**: Minimum 5/8 in. plywood or oriented strandboard (OSB). Sub-flooring installed perpendicular to joists, with end joints staggered, fastened in accordance with Code requirements
- 3. Structural Members: Pacific Woodtech Corporation PWI Series I-joists having a minimum depth of 9 ½ in., installed at 24 in. on centers maximum.
- 4. Resilient Channels: Minimum 25 gauge galvanized steel channels installed perpendicular to joists and spaced 16 in. on centers maximum. Additional channels required at gypsum wallboard end joints such that each board end rests on its own channel. These additional channels shall extend to the next joist on each side of the board edges. Channels fastened with 1-5/8 in. long Type W screws at each joist intersection.
- 5. Gypsum Board: One layer of 5/8 in. Type C gypsum wallboard installed perpendicular to channels with end joints staggered 48 in. Boards to be fastened to channels with minimum 1-1/8 in. Type S screws located 7 in. on center. Screws shall be minimum 1-1/2 in. from board edges and 3/4 in. from board ends. Gypsum wallboard shall be taped and filled. Screw heads shall be filled with gypsum joint compound.
- 6. **Insulation:** 2 in. rock wool insulation, nominal 3.5 pcf density, friction fit between flanges, resting on wood furring strips.
- 7. **Wood Furring Strip (not shown):** Nominal 1 in. x 4 in. wood furring strip installed under each bottom flange, centered on flange, fastened with 1-1/4 in. Type W screws located 24 in. on centers.



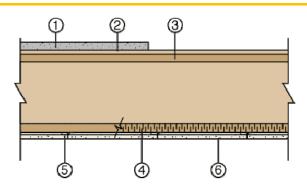


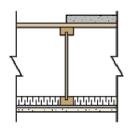




Division 06 – Wood, Plastics, and Composites 06 17 00 Shop-Fabricated Structural Wood 06 17 33 Wood I-Joists

Pacific Woodtech Corporation
Design No. PWT/WIJ 60-05
Floor/Ceiling Assembly
PWI Series I-Joists
ASTM E119
Rating: 1 Hour





- TOPPING (Optional): Gypsum concrete, lightweight or normal concrete topping may be added as optional floor toppings as prescribed in Code Compliant floor/ceiling assemblies.
- SUB-FLOORING: Min. 23/32 in. wood structural panels or other Code-approved panel over properly spaced I-Joists, installed per Code requirements.
- **3. CERTIFIED MANUFACTURER:** Pacific Woodtech Corporation

**CERTIFIED PRODUCT:** Wood I-Joists

**CERTIFIED PRODUCT:** PWI Series I-Joists with flange thickness ≥ 1-1/8 in. and min. cross-sectional area of 2.25 in.<sup>2</sup>

Pacific Woodtech Corporation PWI Series I-Joists installed 24 in. on centre (oc) with one #10 x 3-1/2 in. screw in the top and bottom flange of each I-Joist on both ends.

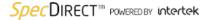
- 4. INSULATION (Optional): Max. 3-1/2 in. thick, R-11 fiberglass insulation batts friction fitted in the plenum cavity between each joist and draped over the resilient channel.
- 5. RESILIENT CHANNELS: Min. 25 GA galvanized steel channels installed perpendicular to joists and spaced 24 in. oc max. Additional channels required at gypsum wallboard end joints such that each board end rests on its own channel. Additional channels shall extend to the next joist on each side of the board edges. Channels fastened with 1-1/4 in. long Type S screws at each joist intersection.
- 6. GYPSUM BOARD: Two layers of 1/2 in. USG SHEETROCK® FIRECODE® C Core Type X gypsum wallboard installed perpendicular to resilient channels with end joints staggered 48 in.

Base layer boards to be fastened to channels with min. #6 x 1-1/4 in. Type S screws spaced 12 in. oc. Screws shall be min. 1-1/2 in. from board edges and 3/8 in. from board ends.

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SFT-BC-OP-19i



# DESIGN LISTING PWT WIJ 60-05 (2 OF 2)



Division 06 – Wood, Plastics, and Composites 06 17 00 Shop-Fabricated Structural Wood 06 17 33 Wood I-Joists

Exposed layer edge and end joints must be offset 24 in. from those in the base layer. Exposed layer fastened through the base layer to the resilient channels with #6  $\times$  1-5/8 in. Type S screws spaced 12 in. oc (offset 6 in. from those in base layer) at a nominal 1-1/2 in. from edges.

Ends of exposed layer panels fastened to the base layer with #10 x 1-1/2 in. Type G screws spaced 8 in. oc at a nominal 1-1/2 in. from ends.

Gypsum wallboard shall be taped and filled. Screw heads shall be filled with gypsum joint compound.

Consult the listing report on the Directory of Building Products (<a href="https://bpdirectory.intertek.com">https://bpdirectory.intertek.com</a>) for the edition of the standard(s) evaluated.

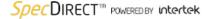
Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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## MANUFACTURING INFORMATION

Pacific Woodtech Corporation are manufactured under an APA third party quality control program. Refer to Quality Control section.

Joists eligible for certification are manufactured using Ashland Performance Materials adhesive products provided as Listed components. The following Listed products may be used;

- Flange finger-jointing adhesive: Ashland Isoset UX-200, used with Isoset WD3-300
- OSB Web to web connections: Ashland Isoset UX-100, used with Isoset WD3-A322 or WD3-A325
- Web to flange connections; Ashland Isoset CX-47, used with Isoset WD3-A322



## SIGNATURE PAGE

Reported By:

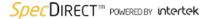
Baljeet Chung, EIT

Technical Analyst

**Building & Construction** 

Reviewed By:

Emma Amiralaei, P.Eng. Engineer, Evaluation Services



### **COMPONENTS**

### **ETL Mark Minimum Labeling Requirements (new Intertek Mark)**

#### MINIMUM MARKING REQUIREMENTS FOR PRODUCTS BEARING THE ETL MARK

The ETL Listing Certification Mark Label consists of the following four items:

- 1. The ETL Certification Mark with "US" and/or "C" as identifiers. The letter "C" adjacent and to the lower left side of the ETL Certification Mark indicates that the product complies with a Canadian standard. The letters "US" adjacent and to the lower right side of the ETL Certification Mark indicates that the product complies with a US standard. For products that are certified to European standards, the mark without the country identifiers (ETL Listed) can be used. The required minimum size of the identifiers is 2 mm.
- 2. The word, "Listed" or "Classified" or "Recognized Component" (whichever is appropriate). The word, "Listed" is to be incorporated into the ETL Certification Mark. If upon reduction, the word "listed" is not legible as part of the trademark, it shall also appear separately.
- 3. The Control Number issued by Intertek Testing Services. This five to eleven digit number is unique to the manufacturing site for each applicant.
- 4. A standard description, which refers to the national standard used for certification shall be used. Example:
- For US standards, the words, "Certified to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Certified to ANSI/UL Std. XX."
- For Canadian standards, the words "Certified to CAN/CGA Standard CXX No. XX", shall be used, or abbreviated, "Cert. to CAN/CSA Std CXX No. XX".
- If the manufacturer wishes, they may use the standard title, example "Telephone Equipment."
  - 5. The following phrase: "Refer to Intertek's Directory of Building Products for detailed information."

### **Listing Report General Information**

#### LISTING REPORT GENERAL INFORMATION

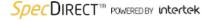
The Applicant has agreed to produce, test and label Intertek Listed products in accordance with the requirements of the Listing Report. The Applicant has also agreed to notify Intertek and request authorization prior to using alternate parts, components or materials.

### **INSTRUCTIONS FOR USE**

A copy of the Listing Report is provided to the Applicant and is used by the Intertek Field Representative for Follow-up Service Inspections; and one copy is retained in files at the Intertek Regional Certification Center.

The Listing Report will provide the Applicant with a guide for the operation of the certification program.

In the case where a discrepancy exists between the product and the Listing Report, the Listing Report



currently on the SpecDirect website will be considered correct, and therefore the Applicant has the responsibility for making the necessary corrections so that the product will meet the specifications stated herein.

By signing the Certification Agreement, Manufacturers agree to the same terms and conditions as the Applicant. The Applicant is to use this Report as a guide for the operation of the certification program, and will manufacture the Listed product(s) in accordance with the specifications information stated herein.

#### **CERTIFICATION MARK**

The Intertek Certification Mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the Intertek Certification Mark is subject to the control of Intertek.

#### MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in the Factory Audit Manual, or Manufacturing Section found in the Listing Report.

#### **FOLLOW-UP SERVICE**

Follow-up Service Inspections of the manufacturing facility shall be conducted by Intertek and shall be unannounced unless otherwise permitted by Intertek. A Periodic Inspection Report (PIR) shall be issued after each visit.

Special attention will be given to the following:

- 1. Conformance of the manufactured product to the descriptions in the Listing Report.
- 2. Conformance of the use of the Intertek Certification Mark with the requirements of the Listing Report and the Intertek Certification Agreement.
- 3. In-plant quality control procedures and personnel.
- 4. Manufacturing processes and changes.
- 5. Performance of specified manufacturing and production tests.
  - 6. Collection of Verification samples for confirmatory testing, if applicable.

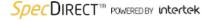
In the event that the Intertek Field Representative identifies variance(s) to any provision of the Listing Report, the Applicant shall take one or more of the following actions:

- 1. Correct the non-conformance.
- 2. Remove the Intertek Certification Mark from non-conforming product.
- 3. Contact the Intertek Certification office (<a href="mailto:bpcerthelpdesk@intertek.com">bpcerthelpdesk@intertek.com</a>) for additional instructions.

#### **GENERAL REQUIREMENTS AND DEFINITIONS**

**Accepted -** Accepted by Intertek. All inquiries regarding change to Listed products must be presented to Intertek in writing for consideration and acceptance.

**Applicant** – The term Applicant shall mean the company who submitted the product for evaluation and certification and owns rights to Listing Reports.



**Authorization to Mark** - The term Authorization to Mark ("ATM") shall mean a written document from Intertek that authorizes the Manufacturer to apply an Intertek certification mark to a specific product.

**Authorized** - Authorized by Intertek. All inquiries regarding change to Listed products (or systems?) must be presented to Intertek in writing for consideration and approval.

**Certification Agreement** – An agreement executed between Intertek and the Applicant, and, when applicable, between Intertek and the Manufacturer setting forth the terms and conditions for Listing, Labeling and Follow-up Services provided by Intertek.

**Certified** - Material or assembly included in a list published by a nationally recognized certification agency that conducts periodic inspections of production of Listed materials or assemblies and whose listing states either that the material or assembly meets recognized standards or has been tested and found suitable for use in a specified manner. See also Listed.

**Discrepancy or Variance** - A difference between the Listing Report and a product or procedure described in the Listing Report. This will result in the filing of a Variance Report on which a management level decision for the corrective action will be based.

**Installation, Operating and Safety Instructions** - Instructions for installation and use of the product or system are provided by the Manufacturer.

**Listed** - Materials or assemblies included in a list published by a nationally recognized certification agency that conducts periodic inspections of production of listed materials or assemblies, and whose listing states either that the materials or assemblies meets nationally recognized standards, or has been tested and found suitable for use in a specified manner. See also Certified.

**Listed Component** - Identifies any product that is a component of the Intertek Listed product or system that is covered under the Listing or Certification service of another certification body.

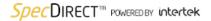
**Manufacturer** - The term Manufacturer shall mean the company who carries out or controls certain stages in the manufacture, assessment, handling, and storage of a product that enables it to accept responsibility for continued compliance of the product with the relevant requirements and undertakes all obligations to apply the certification labels.

**Markings** - The Intertek Certification Mark shall be visible after installation. Other markings may be required as identified in this Report. If evaluated to a Canadian standard, the products may be required to have markings in both French and English. If so, it is the responsibility of the Applicant to determine any such requirement and provide bilingual markings, where applicable, in accordance

with the Canadian Provincial Regulatory Authorities.

**Production Test Requirements** - When applicable, the Manufacturer shall have the necessary test facilities to carry out production tests on the Listed product.

**Product** - The product as described under "Authorization to Mark" is eligible to carry the Intertek Certification Mark. [From the Cert Agreement: The term Product shall mean an Applicant's device, equipment, material, or system that has been submitted for testing or evaluation, and found to be in



compliance with Intertek Requirements and approved for Listing.

**Recognized Component** - Identifies any component, part or sub-assembly, covered under the recognition service of an NRTL (US) or a CO (Canada), and intended for use in Intertek Listed, Intertek Classified, or Intertek Recognized products.

**Standards** - The Manufacturer shall have access to all the current standards/specifications for the Listed product.

**Unlisted Component** – Because unlisted components are uncontrolled, and they do not fall under a third-party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process.

**Use of Mark** - The method of applying the Intertek Certification Mark (i.e. ink stamps, labels) must be kept secured and must not leave the designated manufacturing plant(s) location(s) unless authorized by Intertek. Records on the use of the mark are to be maintained. The Intertek Certification Mark and associated product identification must be clearly visible and legible when applied to the finished product. Products to be marked must have successfully passed the production tests and scrutiny of the quality control personnel, determining that the product complies with the specifications stated in this Report. Failure to comply with procedures constitutes ground for withdrawal of Intertek authorization to use the Intertek Certification Mark.

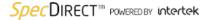
**Ordering Labels -** When using Intertek supplied labels, it is the responsibility of the Applicant to ensure that an adequate stock of labels is maintained. Label quantities in stock are indicated on all packing slips issued by Intertek.

**Modification Procedure -** Intertek may approve modifications of a product based on an additional evaluation or tests. Fees are charged for this service. If modifications are desired, such as substituting a different material, changing the cosmetic appearance, changing the rating, altering a component to simplify the manufacturing or improve the product, or any other change, the following procedure must be followed:

- Communicate to the Intertek office that issued this Report requesting an evaluation of the modification required. Include a clear description and detailed drawings if required showing exactly what is involved, and state your reason for wanting to make the modifications.
- 2. Wait until written authorization is received from Intertek complete with additional or revised pages to be inserted into your Report. Only after written authorization is received may the Applicant proceed with the modification.

### PREQUALIFICATION AUDIT

This activity is required when a client is seeking third-party certification for ETL or WH Mark, Intertek CCRR, US Coast Guard Approval, etc. for the first time or in a plant not previously qualified. This includes a full assessment of the manufacturing and quality assurance program at the plant, and developing the Quality Control Documentation (In-Plant QC Specifications) required for the listing. Only an Engineer trained in the specific product area to develop plant quality assurance specs may perform this type of inspection.



#### **INITIAL FACTORY AUDIT**

The purpose of this audit is to ensure the following:

- 1. The Plant Manager, Foreman and Quality Control Personnel are familiar with this Report.
- 2. The Plant Quality Control Program will assure that the product is manufactured to the requirements in this Report.
- 3. Key personnel are familiar with and recognize the need for Follow-up Service Inspections as well as proper handling of the Intertek Certification Mark and the use of log sheets, where applicable.
- 4. The duties of the Controller of the Intertek Certification Mark are properly understood.

### Equipment or Supplies Needed

- 1. Applicable Specifications and Standards.
- 2. Supply of log sheets where applicable.
- 3. Intertek Certification Mark Controller instruction sheet with sample log sheet.
- 4. Supply of open stock/custom labels or stamp, etc.

<u>Initial Factory Audit Procedures</u> - The initial inspection (pre-arranged with date and time agreeable to both the Applicant and the Intertek Field Representative) will consist of an initial meeting with the Plant Manager, Plant Foreman, Quality Control Manager and other key personnel. The initial meeting will cover a complete review of the Report and production facilities.

#### INTERTEK FOLLOW-UP SERVICE INSPECTIONS

At each Follow-up Service Inspection, the Intertek Field Representative shall determine that the product is manufactured in accordance with the Listing Report, and that label procedures are followed.

### For Intertek-supplied Labels:

Label Control - Record serial numbers of labels if applicable, in the plant. Inspect label log sheets. The following information should be recorded in the label log sheets by the manufacturer:

- 1. Label numbers, date labeled or shipped, product labeled, and destination.
- 2. Labels removed from, returned, freight damage, or rejected products should be picked up.

<u>Examination of Product</u> - at each Follow-up Service Inspection, the Intertek Field Representative shall determine that the product which is intended to bear the Intertek Certification Mark is manufactured in accordance with the approved FActory Audit Manual or manufacturing specifications stated in the Listing Report.

<u>Examination of Applicant's Quality Control Projgram</u> - At each Follow-up Service Inspection, the Intertek Field Representative shall determine that the Applicant's program conforms to the specifications included in the quality control procedures. The Intertek Field Representative shall pay attention to the following:

- 1. The Applicant's quality control program conforms to the procedure accepted by Intertek and included in this Report.
- 2. The equipment used for quality control conforms to the specifications in the quality control procedure. The work area is suitable for a good quality control program.
- 3. Regular manufacturing production line tests are carried out by the Applicant, as required in the



Factory Audit Manual or manufacturing section of the Listing Report.

<u>Variances</u> - In the case of a variance, the Intertek Field Representative shall complete Periodic Inspection Report detailing the variance and issue a Variance Report. A signature on the Intertek Field Representative's copy shall be obtained from the Applicant's representative, giving evidence they were issued a copy. Copies shall be forwarded to the Intertek Regional Certification Office.

The Intertek Field Representative shall require that the Applicant remove the Intertek Certification Mark from all products which do not meet the conformance requirements of this Report, and advise the Applicant not to use the Intertek Certification Mark until further advised.

In the case of minor cosmetic changes the Intertek Field Representative will note the variance on his Follow-up Services Inspection Report and determine the action to be taken by the Applicant. Actions may be to have the Applicant apply to Intertek for an evaluation of the variance and if approved, the subsequent modification of this Report, or to have the Applicant agree to correct the variance on all affected units.

On subsequent routine Follow-up Service Inspections, the Intertek Field Representative will pay special attention to any variances listed in previous Follow-up Inspection Reports. If it is found that a variance has not been corrected as agreed to by the Applicant, the Intertek Field Representative will contact Intertek Regional Certification Center for appropriate instructions. In extreme cases, service could be immediately suspended.

In the case of a difference existing between this Report and the product that could result in a safety hazard, the Intertek Field Representative will fill out a Variance Report. The determination of what constitutes a variance is left to the discretion of the Intertek Field Representative, but any modification or change that could affect the operating characteristics of a product must be reported. The action taken by Intertek will be:

- 1. Removal of all labels or the Intertek Certification Mark or halting the shipping of the affected product until the Applicant corrects the variance, or has an evaluation carried out by Intertek, the modification approved, and this Report updated.
- 2. For units already shipped, procedures must be taken per Intertek GMS-QC-06.

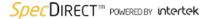
#### CONFIDENTIALITY

All test data, reports and design documentation produced under the Listing Report is considered the proprietary confidential property of the Applicant and will not be released to any other party without the Applicant's expressed written authorization.



# **ADDITIONAL REQUIREMENTS DRAWING INDEX**

Intertek ETL Certification Marks



# INTERTEK ETL CERTIFICATION MARKS

