LISTING REPORT - MANUFACTURING

Issued: May 5 2010 12:51PM

Inspection Tests And Evaluation Of

Horton Automatics Profiler ICU Smoke Rated Manual Sliding Door Systems (21706)

RENDERED TO

Horton Automatics, Division of Overhead Door Corporation
4242 Baldwin Boulevard
Corpus Christi, TX 78405-3399

GENERAL: This Report gives the results of the inspection, tests and evaluation of the above for compliance with applicable requirements of the following standards : UL 1784 (2009)

Correlation for Multiple Listees

Applicant/Basic Listee:

Horton Automatics, Division of Overhead Door Corporation
4242 Baldwin Boulevard
Corpus Christi, TX 78405-3399

Applicant/Manufacturer(s):

Applicant/Manufacturer	Contact

Parties Authorized to Apply Mark:

Company	Contact

PRODUCT DESCRIPTION

Product Covered:

Horton Automatics Profiler ICU Smoke Rated Manual Sliding Door Systems

Product Description:

ProfilerICU™ Smoke Rated Door Systems are doors made of extruded aluminum framing, glazed with standard tempered glass. All sliding door systems are combined into one category under the name of ***Profiler ICU Smoke Rated Manual Sliding Door Systems***. The door systems that in the category are as follows:

Profiler ICU Smoke Rated Manual Sliding Door System

Series 2000 Type 310 (SO-SX / SX-SO) Trackless

Series 2000 Type 010 (P-X / X-P)

Series 2000 Type 310 (SO-SX / SX-SO)

Series 2000 Type 110 (O-SX / SX-O)

Profiler ICU Self Closing Manual Sliding Door (SO-SX / SX-SO)

ProfilerICU Series 310 with Miniblinds and PLAM Smoke Rated Manual Sliding Door System (SO-SX / SX-SO)

ProfilerICU Smoke Rated Manual Slide Door System: Type 310T Trackless a.k.a. Smoke Rated Telescoping ICU/CCU Manual Door System.

RATINGS

When tested in accordance with UL 1784 *Standard for Safety Air Leakage Tests of Door Assemblies* (2001)

Pressure (In. w.c.)	Temperature (F)	Max Deflection (in.)	Leakage (scfm/sq ft)
0.1	70	0	0.60
0.2	70	0	0.98
0.3	70	0	1.36
0.1	400	0	0.68
0.2	400	0	1.20
0.3	**400**	**0**	**1.63**

The **Profiler ICU Smoke Rated Manual Sliding Door System** had a maximum air leakage rating of 1.63 cubic feet per minute per square foot of opening at an elevated temperature exposure (400°F) at 0.30 in. wc.

Attribute	Value

CSI Code	08 11 16 Aluminum Doors and Frames
Air Leakage	1.63
Listed or Inspected	LISTED
Report Number	16568-125195, 3095997-003, 3125545SAT-001, 3140268SAT-001, 3182509SAT-003A, 192565SAT-001EEV REV1, 3192565SAT-002 QCM
Criteria	UL 1784 (2009)
Intertek Services	Certification
Listing Section	SMOKE CONTROL DOOR ASSEMBLIES
Verification Testing	YES

MANUFACTURING INFORMATION

Raw materials such as aluminum extrusions are kept in material racks. Smaller components are kept in stock room. A part number identifies all raw materials. A small quantity of popular parts is kept on the production line. When a cutsheet is received by a department, the employee in charge of cutting the aluminum extrusions will request that the extrusion called out on the cut sheet be delivered to his area from the racks and he will cut the rails per the cut sheet. The extrusions will then be passed on to the fabrication department where they will be fabricated per the fabrication drawings. The tolerances for the fabrication of the rails are stated in the title block of each fabrication drawing. The aluminum extrusions will then be assembled and have all components installed per the cutsheet and assembly instructions. Any materials not available on the line will be requested from the stock room by part number. Once the component has been assembled, a portion of it will be wrapped in plastic and a traceability label will be adhered to it identifying it with the work order number, job name, distributor identification, and component identification.

Note: *Finished door assemblies are not glazed with tempered glass at the manufacturing facility—only the completed aluminum frame, with gasketing material, is manufactured, packaged and shipped to the customer for field installation.* This is because of the risk that the glass will break en route to field installation. General glazing instructions are attached with tape to each finished door frame. Specific glazing instructions are included in the Installation Instructions Packet with the glazing sealant specifications and application method.

Specific assembly drawings are provided in Appendix C, D, E and F of the Quality Control Manual located in the Quality Control section of this listing. They provide details as to the parts used and final assembly.

3.2 QUALITY CONTROL FOR INCOMING MATERIALS

Aluminum extrusions are identified by part number when they arrive and are then checked for cosmetic discrepancies. Stockroom parts are also identified by part number when they arrive. All details for these parts are included in part drawings stored on a server folder. These part drawings are sorted in numerical order using the part number. These drawings are accessed when a part is received and the parts are checked to the drawings. If parts are damaged by supplier they are returned to the supplier. If parts are damaged in-house, they are scrapped. A kanban system is used for inventory control.

4.4 QUALITY CONTROL DURING MANUFACTURE

Each production employee verifies that raw materials meet cutsheet specifications. Materials not within cutsheet specifications are scrapped or reworked if no signs of cosmetic or dimensional discrepancies are expected be present after the rework.

Any fabrication drawings that are found to be out of specification are collected (on the computer network server) for review in weekly “E.C.O.” meetings. The purpose of E.C.O. meetings is to correct and update fabrication and part drawings on the computer server.

5.2 QUALITY CONTROL ON FINISHED PRODUCTS

Quality Control personnel or the line operator inspect the door to ensure that cutsheet requirements have been met. First a visual inspection is performed to ensure that no cosmetic blemishes are present, then a dimensional inspection is performed.

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:

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 so that a determination as to how it should be addressed can be made.

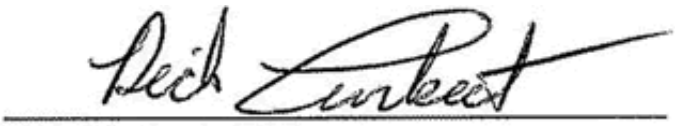
Defect	Disposition
Minor Defects	
A blemish not visible from 5 feet away	ACCEPT
Major Defects	
Dimension out of tolerance	REJECT
Blemish visible from 5 feet away	REJECT

SIGNATURE PAGE

Reported By:

Project Engineer
Engineering Services

Reviewed By:



Rick Curkeet, P.E.
Chief Engineer
Building and Hearth Products Division

TESTING INFORMATION

GENERAL

This Report gives the results of the inspection, tests and evaluation of Profiler ICU Smoke Rated Manual Sliding Door Systems for compliance with the following standard(s): UL 1784 *Standard for Safety Air Leakage Tests of Door Assemblies* (2001)

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-	Owner/Listee of Product and Listing	Manufacturing Plant (If Different from Owner/Listee)
Company Name:	**Horton Automatics, Inc.**	**same**
Address:	**2242 Baldwin Boulevard Corpus Christi, TX 78405**	**same**
Tel:	**(361) 888 – 5591**	**same**
Fax:	**(361) 888 – 6510**	**same**
Email:	**amod_nadgouda@overheaddoor.com**	**same**
Contact Person(s):	**Amod Nadgouda – Mechanical Engineer**	**same**
Hrs of Operation:	**Office: 8:00am – 5:00pm (Mon. – Fri.) Plant: 7:00am – 3:30pm (Mon. – Fri.)**	**same**

CONCLUSION OF TEST RESULTS

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A representative sample of the product was tested and/or evaluated in accordance with the following Standard(s) at Intertek: **UL 1784 *Standard for Safety Air Leakage Tests of Door Assemblies* (2001)**

Door Assembly	Project number and date tested	Maximum Air Leakage Rating
Horton Automatics Profiler ICU Trackless Smoke Rated Door	16568-125195 November 17, 2004	0.43 cubic feet per minute per square foot of opening at an elevated temperature exposure (400°F) at 0.30 in. wc.
Horton Automatics Slide Door With Smooth Glass	3095997-003 May 26, 2006	1.62 cubic feet per minute per square foot of opening at an elevated temperature exposure (400°F) at 0.30 in. wc.
ProfilerICU Smoke Rated Manual		1.63 cubic feet per minute per

Slide Door System: a.k.a. Smoke Rated Telescoping ICU/CCU Manual Door System	3125545SAT-001 February 11, 2008	square foot of opening at an elevated temperature exposure (400°F) at 0.30 in. wc.
ProfilerICU Series 310 with Miniblinds and PLAM Smoke Rated Manual Sliding Door System	3140268SAT-001 May 22, 2008	.124 cubic feet per minute per square foot of opening at an elevated temperature exposure (400°F) at 0.30 in. wc.
Profiler ICU Smoke Rated Self Closing Manual 310 Trackless Sliding Door System	3182509SAT-003A July 27, 2009	1.21 cubic feet per minute per square foot of opening at an ambient temperature exposure at 0.30 in. wc.

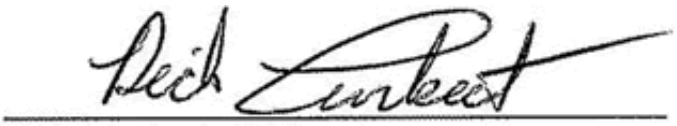
Results of the evaluation indicate that the specimens conform to applicable test criteria.

SIGNATURE PAGE

Reported By:

Project Engineer
Engineering Services

Reviewed By:



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Chief Engineer
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