



ETC Laboratories

ETC Laboratories
Corporate Offices / Laboratories
297 Buell Road
Rochester, NY 14624
(585) 328-7668
Fax: (585) 328-7777

Simulation Test Report

Rendered To:

Door & Access Systems Manufacturers Association
1300 Sumner Avenue
Cleveland, OH 44115

Productline Series/Model

Rolling Garage Door

Report Number

ETC-05-1005-16556.1

Report Number: ETC-05-1005-16556.1
 Job Number: ETC-05-1005-16556-3
 Simulation Date: November 20, 2005
 Report Date: November 20, 2005
 Revision Date: December 13, 2006

Simulation Report

Rendered To:

Door & Access Systems Manufacturers Association
 1300 Sumner Avenue
 Cleveland, OH 44115

Product Series/Model	Operating Type	Model Size (in x in)
Rolling Garage Door	Garage Door	120 x 120

Door Description

Item	Unit	Value
Skin Material	-	22 Gauge Galvanized Steel (Painted)
Insulation	-	None
Height of Slat	in.	2.625
Glazing Sections	-	None

Results

Item	Unit	Value
Simulated U-Factor	Btu/hr-ft²-°F	1.21

Software Used

THERM 5.2 Excel Area Weighting Spreadsheet

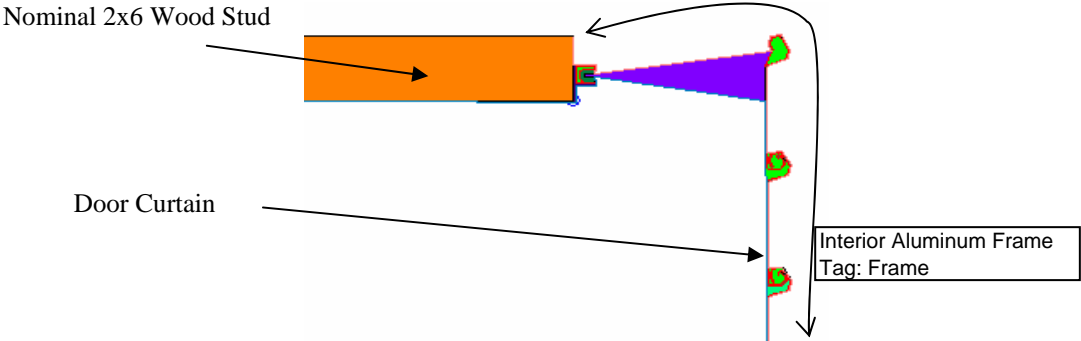
Assumptions

- | |
|---|
| <ol style="list-style-type: none"> Nominal 2x8 wood stud is used in the bottom rail simulation model, and nominal 2x6 wood stud is used in the stile and top rail simulation models. The hood assembly is not included in the simulation. See simulation model figures for boundary condition details. Emissivity of painted steel door skin material is 0.9. |
|---|

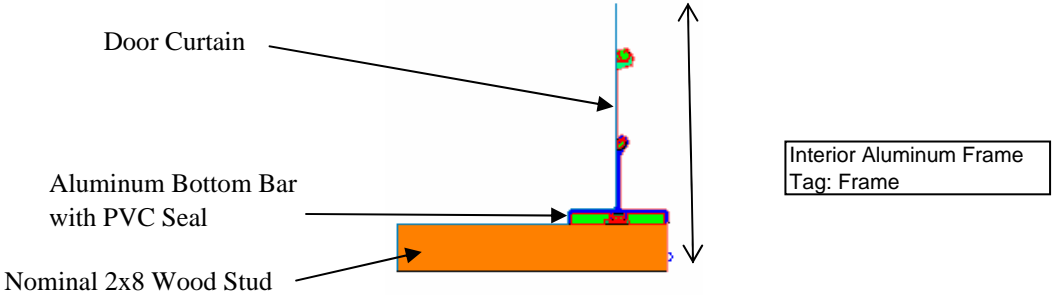
Simulation Models

Report Number: ETC-05-1005-16558.0

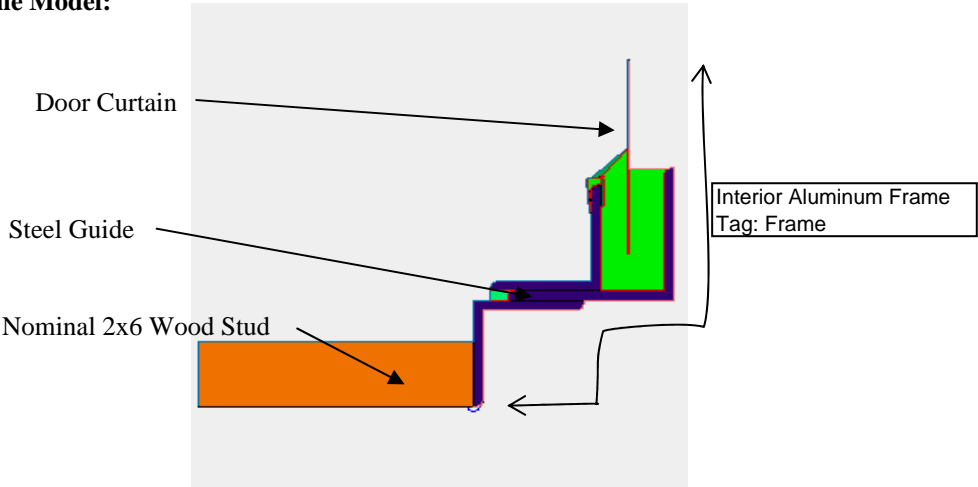
Top Rail Model:



Bottom Rail Model:



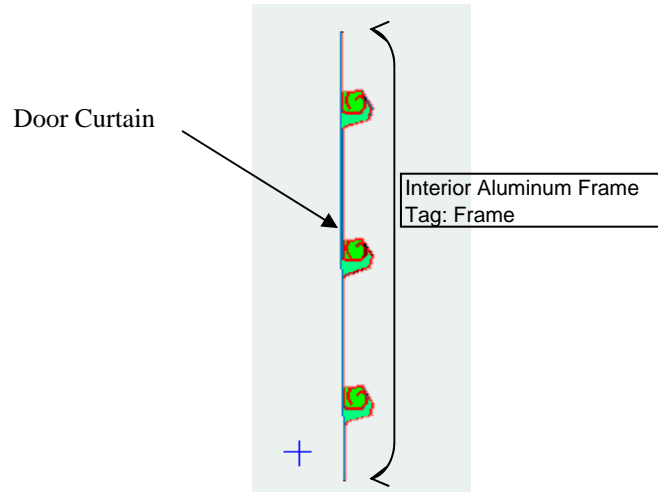
Stile Model:



Simulation Models

Report Number: ETC-05-1005-16558.0

Door Core Model:



Report Number: ETC-05-1005-16556.1

Conditions, Terms, and General Notes Regarding The Simulation

The individual products were simulated using NFRC approved programs THERM 5.2. All window specifications were received from drawings and bill of materials supplied by the manufacturer. This report may not be reproduced except in full, without the approval of ETC Laboratories. This report relates only to the items simulated. Rounding is per NFRC unit conversion and rounding Policy.

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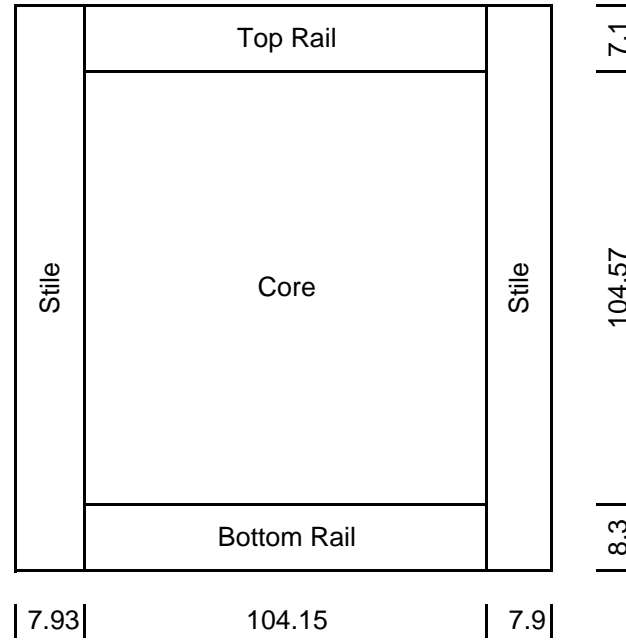
FOR ETC LABORATORIES

Gurjinder Singh, Simulation Engineer, NFRC Certified Simulator
Thermal Simulation Department

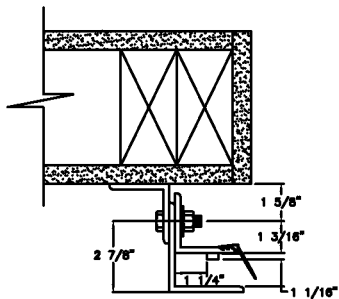
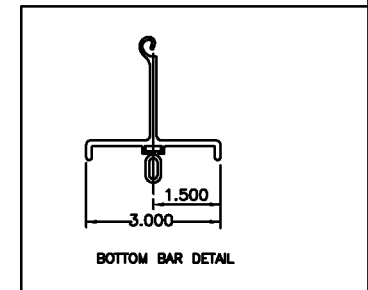
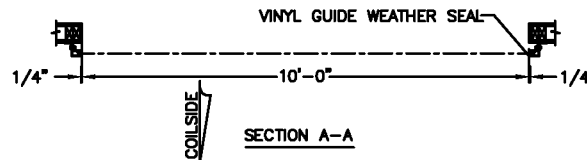
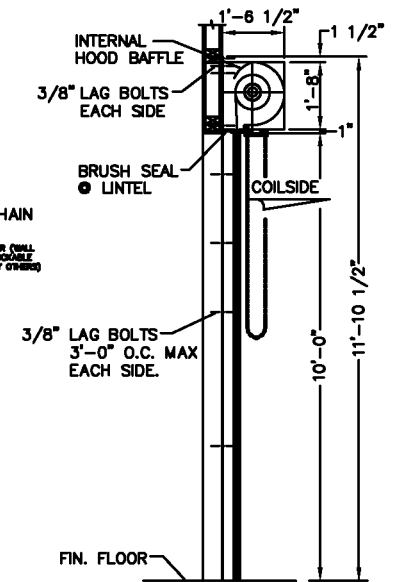
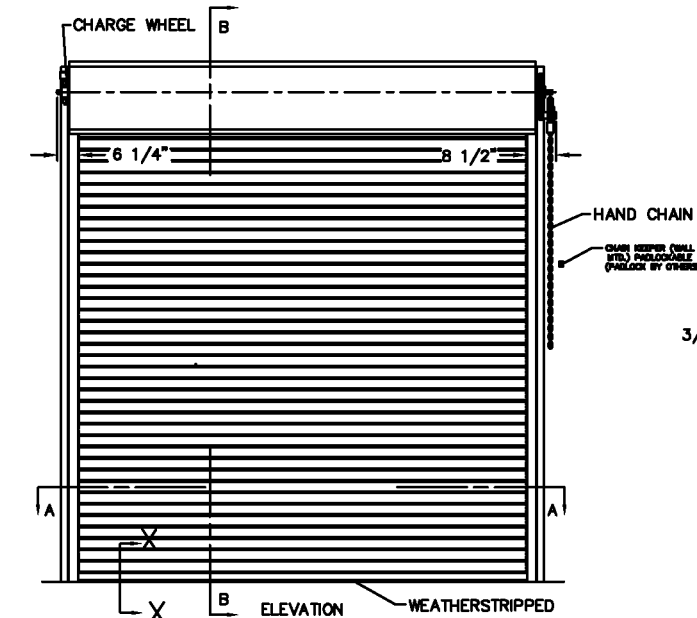
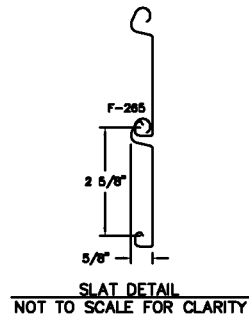
Product: Rolling Garage Door
width: 120 in
Height: 120 in

	Area	U-Factor	A*U
Top Rail:	740.58	1.62	1196.33
Bottom Rail:	866.84	0.97	842.14
Stile:	1902.50	1.40	2657.60
Core:	10890.08	1.17	12779.51

Total U-Factor: 1.21



SPECIFICATIONS	
DOOR MARK	ITEM "A"
QUANTITY	ONE
WIDTH	10'-0"
HEIGHT	10'-0"
ENDLOCKS	ALTERNATE MALLEABLE IRON
WINDLOCKS	REQ'D EVERY 6TH SLAT
MATERIAL	
CURTAIN	22 GA. GALVANIZED STEEL
HOOD	24 GA. GALVANIZED STEEL
GUIDES	STEEL L'S
BOTTOM BAR	EXTRUDED ALUMINUM (MILL FINISH)
FINISH	
FERROUS SURFACES	SHOP PRIMED (BLACK)
CURTAIN	BAKED ON GRAY POLYESTER TOP COAT
HOOD	BAKED ON GRAY POLYESTER TOP COAT



GUIDE DETAIL
SCALE: 3/4"=1'-0"

WINDLOAD 20 P.S.F.

(ONE) RIGHT HAND CAST GEAR CHAIN OPERATED ROLLING STEEL STORMITE DOOR.

DISTRIBUTOR: OVERHEAD DOOR CORPORATION

P.O.#



DRAWING NO.

MODEL / SERIES

SFN-2 / 620

DATE

REVISION

SHEET NO. 1 OF 1

JOB NO.

10/4/05 M.S.

REV. "A"

DR. BY K.S.

DATE: 12/16/03

SCALE: 3/8"=1'-0"

DASMA U-FACTOR PROJECT

OVERHEAD DOOR CO. OF PENNA., INC.
LEWISTOWN, PA.