DATE 08/24/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000024910

APPLICANT HARLIE LYNCH PHONE 386 294-1891

ADDRESS P.O. BOX 187 MAYO FL 32066

OWNER MIKE SHAW/MAYO FERTILIZER PHONE 386 294-2024

ADDRESS 413 NE MCCLOSKEY AVE LAKE CITY FL 32055

CONTRACTOR HARLIE LYNCH PHONE 386 294-1891

LOCATION OF PROPERTY 90E, TL ON MCCLOSKY AVE, CROSS RAILROAD TRACKS ON THE RIGHT

TYPE DEVELOPMENT OFFICE BLDG ESTIMATED COST OF CONSTRUCTION 185000.00

HEATED FLOOR AREA 2400.00 TOTAL AREA 2400.00 HEIGHT 8.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB

LAND USE & ZONING INDUSTRIAL MAX. HEIGHT 8

Minimum Set Back Requirments: STREET-FRONT 20.00 REAR 15.00 SIDE 15.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 36-3S-17-07463-002 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES

		CGC010494	Harlie A Lynch	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	06-0324-N	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD

SDP 06-02

Check # or Cash 9314

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by | Foundation _____ date/app. by | Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by | Slab _____ date/app. by | Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by | Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by | Heat & Air Duct _____ date/app. by | Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by | C.O. Final _____ date/app. by | Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by | Pool _____ date/app. by

Reconnection _____ date/app. by | Pump pole _____ date/app. by | Utility Pole _____ date/app. by

M/H Pole _____ date/app. by | Travel Trailer _____ date/app. by | Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 925.00 CERTIFICATION FEE $ 12.00 SURCHARGE FEE $ 12.00

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1024.00

INSPECTORS OFFICE _____ CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application

CK# 9314

For Office Use Only Application # 0608-36 Date Received 8-11-06 By LH Permit # 24910

Application Approved by - Zoning Official BLK Date 22.08.06 Plans Examiner OK JTH Date 8-16-06

Flood Zone X Development Permit N/A Zoning I Land Use Plan Map Category I

Comments SDP 06-2

362-9243 294-3529

Applicants Name Harlie A. Lynch Phone 386-294-1891

Address P.O. Box 187, 306 SW CR 300 , Mayo, Florida 32066

Owners Name Mayo Fertilizer, Inc. Phone 386-294-2024

911 Address 413 N. E. McCloskey Ave, Lake City, Florida 32055

Contractors Name Harlie Lynch Construction Co., Inc. Phone 386-294-1891

Address 306 S W CR 300, Mayo, Florida 32066

Fee Simple Owner Name & Address Mayo Fertilizer, Inc.. P.O. Box 357, M ayo, Florida 32066

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Keen Engineering, 9263 CR 417, Live OAK, Florida 32060

Mortgage Lenders Name & Address Bank Of America, 50 Laura St., Jacksonville, Fl. 32202

Circle the correct power company - (FL Power & Light) - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number ~~36-3S-17-9900/9900~~ Estimated Cost of Construction $185,000.00

Subdivision Name 36-3S-17-07463-002 Lot ____ Block ____ Unit ____ Phase ____

Driving Directions US 90 East to McCloskey Ave., turn on McCloskey Ave. cross railroad and site is on the right. 413 NE McCloskey Ave.

Type of Construction Wood Frame Office Bldg Number of Existing Dwellings on Property 0

Total Acreage 24.1 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive)

Actual Distance of Structure from Property Lines - Front 100 Side 205 Side 360 Rear 1,670

Total Building Height 8' Number of Stories 1 Heated Floor Area 2400 sf Roof Pitch 5:12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Harlie A. Lynch

Owner Builder or Agent (Including Contractor)

Harlie A. Lynch

Contractor Signature

Contractors License Number CGC 010494

Competency Card Number ____

NOTARY STAMP/SEAL

ANNETTE B. LAWSON MY COMMISSION EXPIRES February 26, 2009 #DD 365989 Bonded thru Notary Public Underwriters NOTARY PUBLIC, STATE OF FLORIDA

STATE OF FLORIDA
COUNTY OF ~~COLUMBIA~~ LAFAYETTE

Sworn to (or affirmed) and subscribed before me this 11 day of Aug 2006.

Personally known ✓ or Produced Identification ____

Annette B Lawson

Notary Signature

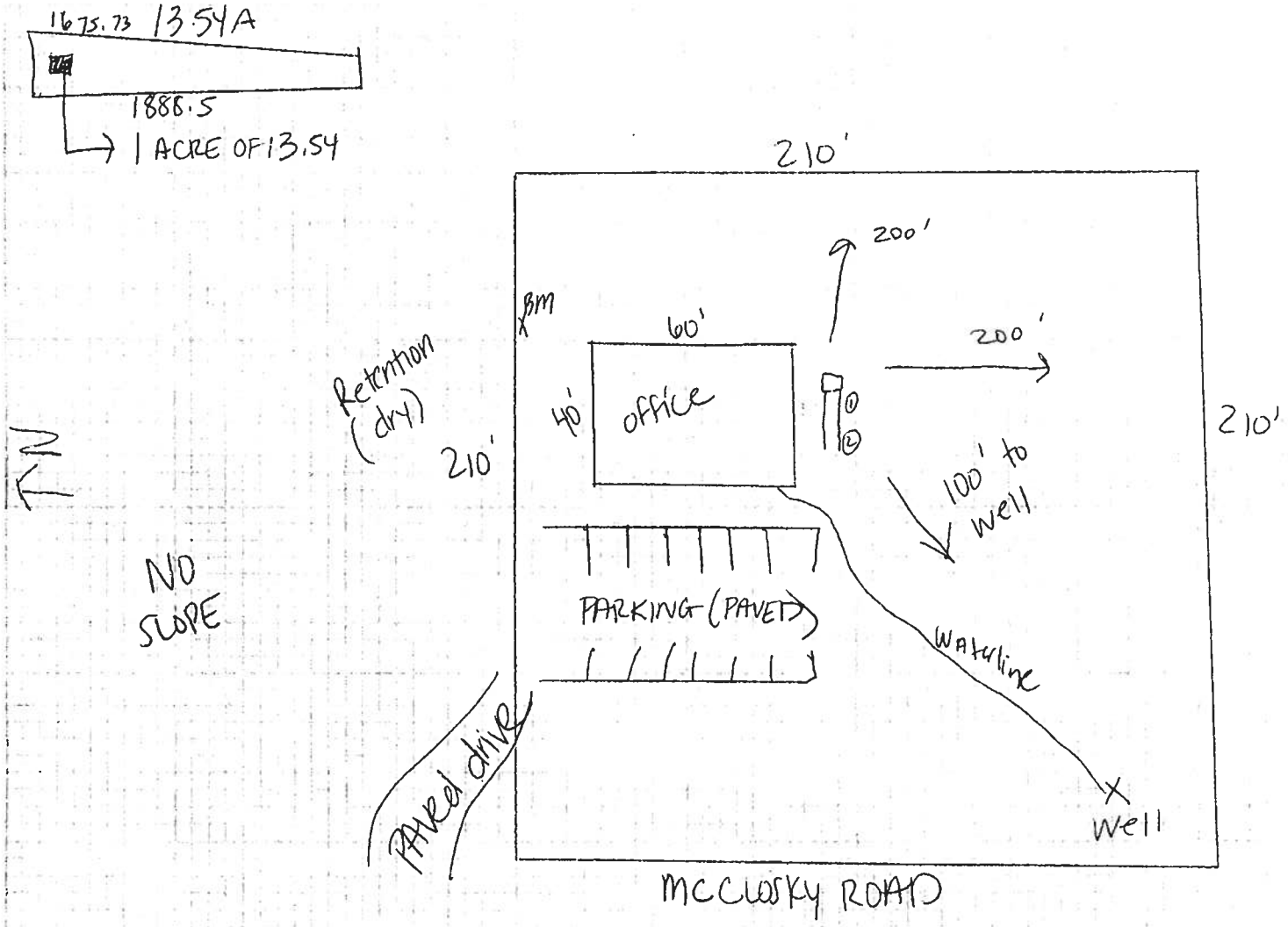
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0324-N

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: _____

Site Plan submitted by: _____ _____
Signature Title

Plan Approved ✓ Not Approved _____ Date 5/1/06

By _____ (Columbia) County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

LAKE CITY / COLUMBIA COUNTY
FIRE DEPARTMENT

225 NW Main Blvd., Suite 101, Lake City, FL 32055
Phone: 386-752-3312 Fax: 386-758-5424

Inspection Division

Firesafety Inspectors

Carlton A. Tunsil
Assistant Fire Chief

Frank E. Armijo
Captain

Nathiel L. Williams, Sr.
Driver/Engineer

TO: OWNERS, ARCHITECTS, CONTRACTORS FOR NEW CONSTRUCTION

FROM: INSPECTION DIVISION
Lake City Fire Department

DATE: August 21, 2006

RE: KNOX BOX REQUIREMENT

TO WHOM IT MAY CONCERN:

KNOX BOXES ARE NOW A REQUIREMENT FOR NEW CONSTRUCTION & EXISTING BUILDINGS.

FOR NEW CONSTRUCTION AND EXISTING COMMERCIAL BUILDINGS WITH ANY IMPROVEMENTS, WE ARE ALSO REQUESTING REFLECTIVE ADDRESSING NUMBERS TO AID FIRE DEPARTMENTS AND OTHER EMERGENCY AGENCIES IN LOCATING BUILDINGS. THE KNOX BOXES WILL GIVE FIRE DEPARTMENT PERSONNEL ACCESS AND ENTRANCE TO BUILDING IN THE EVENT OF AN EMERGENCY.

Florida Energy Efficiency Code For Building Construction
Florida Department of Community Affairs

EnergyGauge FlaCom v 2.11 FORM 400A-2004
Whole Building Performance Method for Commercial Buildings

Jurisdiction: LAKE CITY, COLUMBIA COUNTY, FL (221200)

Short Desc: New Prj
Owner: MIKE SHAW
Address: McCOLSKY STILL ROAD
Enter Address here
City: Lake City
State: Florida
Zip: 0

Project: MAYO FERTILIZER OFFICE

PermitNo: 0
Storeys: 1

Type: Office
Class: New Finished building

***Conditioned Area:** 2400
***Cond + UnCond Area:** 2400

* denotes lighted area. Does not include wall crosection areas

Max Tonnage: 4.8 (if different, write in)

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	1,599.04	1,888.42	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**None Entered**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT NOTE: An input report Print-Out from EnergyGauge Com of this design building must be submitted along with this Compliance Report.

COMPLIANCE CERTIFICATION:

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Efficiency Code.

PREPARED BY: Curtis Keen

DATE: 8/9/06

I hereby certify that this building is in compliance with the Florida Energy Efficiency Code.

OWNER AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

If required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Code.

		REGISTRATION No.
ARCHITECT :		
ELECTRICAL SYSTEM DESIGNER:	Curtis Keen	Eb 3761
LIGHTING SYSTEM DESIGNER:	Curtis Keen	EB 3761
MECHANICAL SYSTEM DESIGNER:	Curtis Keen	EB 3761
PLUMBING SYSTEM DESIGNER:	Curtis Keen	EB 3761

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.
Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: New Prj
Title: MAYO FERTILIZER OFFICE
Type: Office
(WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	*85.06*	*100.00*
	$1,599.04	*$1,888.42*
ELECTRICITY(MBtu/kWh/$)	85.06 31,727.00 *$1,599.04*	100.00 37,247.00 *$1,888.42*
AREA LIGHTS	15.57 5,806.00 *$292.62*	21.70 8,085.00 *$409.91*
MISC EQUIPMT	14.15 5,274.00 *$265.81*	14.15 5,274.00 *$267.39*
PUMPS & MISC	0.16 59.00 *$2.97*	0.16 59.00 *$2.99*
SPACE COOL	16.67 6,223.00 *$313.64*	20.60 7,668.00 *$388.77*
VENT FANS	38.52 14,365.00 *$724.00*	43.40 16,161.00 *$819.36*

Credits & Penalties (if any): Modified Points: = 85.07 | **PASSES**

Project: New Prj
Title: MAYO FERTILIZER OFFICE
Type: Office
(WEA File: JACKSONVILLE.TMY)

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Building Entrance with (or free standing) Canopy	3.00	100.0	300	13
Ext Light 2	Building exit	20.00	3.0	60	
Ext Light 3	Building exit	20.00	3.0	60	

Design: 13 (W)
Allowance: 420 (W)

PASSES

Project: New Prj
Title: MAYO FERTILIZER OFFICE
Type: Office
(WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compliance
Pr0Zo1Sp1	17	Office - Enclosed	2,400	1	16	1	PASSES

PASSES

Project: New Prj
Title: MAYO FERTILIZER OFFICE
Type: Office
(WEA File: JACKSONVILLE.TMY)

System Report Compliance

Pr0Sy1 **System 1** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. of Units** 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		12.05	10.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance

None

Project: New Prj
Title: MAYO FERTILIZER OFFICE
Type: Office
(WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.92	0.88			PASSES

PASSES

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance

None

Project: New Prj
Title: MAYO FERTILIZER OFFICE
Type: Office
(WEA File: JACKSONVILLE.TMY)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	☐
System	407.1	HVAC Load sizing has been performed	☐
Ventilation	409.1	Ventilation criteria have been met	☐
ADS	410.1	Duct sizing and Design have been performed	☐
T & B	410.1	Testing and Balancing will be performed	☐
Motors	414.1	Motor efficiency criteria have been met	☐
Lighting	415.1	Lighting criteria have been met	☐
O & M	102.1	Operation/maintenance manual will be provided to owner	☐
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	☐
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	☐

EnergyGauge FlaCom v 2.11

INPUT DATA REPORT

Project Information

Project Name: New Prj

Project Title: MAYO FERTILIZER OFFICE

Address: McCOLSKY STILL ROAD
Enter Address here

State: Florida

Zip: 0

Owner: MIKE SHAW

Orientation: North

Building Type: Office

Building Classification: New Finished building

No.of Storeys: 1

GrossArea: 2400

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	2400.0	1	2400.0	☑

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]

Allen Keen
8/9/06
EB#3761

In Zone: Pr0Zo1										
1	Pr0Zo1Sp1	Zo1Sp1	Office - Enclosed	40.00	60.00	8.00	1	2400.0	19200.0	☑

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: Pr0Zo1								
In Space: Pr0Zo1Sp1								
1	Compact Fluorescent	General Lighting	24	64	1536	Manual On/Off	11	☑
2	Compact Fluorescent	General Lighting	9	40	360	Manual On/Off	5	☑

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
1	Pr0Zo1Wa1	FC11a	40.00	8.00	1	320.0	North	0.0649	0.8469	9.08	15.40	☑
2	Pr0Zo1Wa2	FC11a	60.00	8.00	1	480.0	East	0.0649	0.8469	9.08	15.40	☑
3	Pr0Zo1Wa3	FC11a	40.00	8.00	1	320.0	South	0.0649	0.8469	9.08	15.40	☑
4	Pr0Zo1Wa4	FC11a	60.00	8.00	1	480.0	West	0.0649	0.8469	9.08	15.40	☑

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHG	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]

In Zone: Pr0Zo1											
In Wall: Pr0Zo1Wa1											
1	Pr0Zo1Wa1Wi1	User Defined	No	0.4500	0.34	0.21	3.00	4.00	4	48.0	☑
In Wall: Pr0Zo1Wa2											
1	Pr0Zo1Wa2Wi1	User Defined	No	0.4500	0.34	0.21	3.00	4.00	3	36.0	☑
In Wall: Pr0Zo1Wa3											
1	Pr0Zo1Wa3Wi1	User Defined	No	0.4500	0.34	0.21	3.00	4.00	4	48.0	☑
In Wall: Pr0Zo1Wa4											
1	Pr0Zo1Wa4Wi1	User Defined	No	0.4500	0.34	0.21	3.00	4.00	4	48.0	☑
2	Pr0Zo1Wa4Wi2	User Defined	No	0.4500	0.34	0.21	3.00	6.67	1	20.0	☑

Doors

	No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1													
In Wall: Pr0Zo1Wa2													
	1	Pr0Zo1Wa2Dr1	Polystyrene core (18 ga steel) 1	No	3.00	6.67	2	20.0	0.4982	0.00	0.00	2.01	☑

Roofs

	No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1													
	1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	40.00	60.00	1	2400.0	0.00	0.0320	1.50	8.22	31.24	☑

Skylights

	No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]

In Zone:
In Roof: N/A ☐

Floors

	No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
	1	Pr0Zo1Fl1	Concrete floor, carpet and rubber pad	40.00	60.00	1	2400.0	0.5987	9.33	140.00	1.67	☑

Systems

Pr0Sy1 **System 1** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	57500.00	12.05		☑
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	2050.00	0.80		☑

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV	
					N/A	☐

Water Heaters

W-Heater Description	Capacit	Cap.Unit	I/P Rt.		Efficienc		Loss		
1 Electric water heater	40	[Gal]		[kW]	0.9200	[Ef]		[Btu/h]	☑

Ext-Lighting

	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]	
1	Ext Light 1	Building Entrance with (or free standing) Canopy	1	13	100.00	Photo Sensor control	13.00	☑
2	Ext Light 2	Building exit	1	0	3.00	Photo Sensor control	0.00	☑
3	Ext Light 3	Building exit	1	0	3.00	Photo Sensor control	0.00	☑

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	

☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULTplTntWd-Vy-Fg frm	User Defined	3	0.4500	0.3400	0.2100	☑

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☑

151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300				
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500				
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900
404	Matl404	R-11 Generic Insulation	No	14.3182	0.3125	0.0218	0.30	0.2000

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.6703

Layer	Material No.	Material	Thickness [ft]	Framing Factor
1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.00
2	178	CARPET W/RUBBER PAD		0.00

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]
1033	Polystyrene core (18 ga steel) 1	No	Yes	0.50			2.0071

Layer	Material No.	Material	Thickness [ft]	Framing Factor
1	284	Polystyrene core (18 ga steel) 1		0.00

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	No	No	0.03	1.50	8.22	31.2351	☑

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	81	ASPHALT-ROOFING, ROLL		0.00	☑
2	244	PLYWOOD, 1/2IN	0.0417	0.00	☑
3	12	3 in. Insulation	0.2500	0.00	☐
4	23	6 in. Insulation	0.5000	0.00	☐
5	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☑

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1054	FC11a	No	No	0.06	0.85	9.08	15.4033	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	404	R-11 Generic Insulation	0.3125	0.10	☑
2	244	PLYWOOD, 1/2IN	0.0417	0.10	☑
3	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.10	☑

ROYAL SOVEREIGN® Shingles

"Popular Choice... For Superior Performance"

Royal Sovereign® shingles combine a simple, timeless beauty with GAF's well-known quality —making it the most popular choice in our Sovereign Series

for HOMEOWNERS

- ***Popular Choice...*** Royal Sovereign® is the most-preferred fiberglass strip shingle in its class among contractors and builders
- ***Superior Performance...*** Extra-strong Micro Weave® Core provides longer life and extended durability
- ***Peace Of Mind...*** 25-year ltd. transferable warranty with Smart Choice® Protection for the first five years (non-prorated material and installation labor coverage)*

for PROFESSIONALS

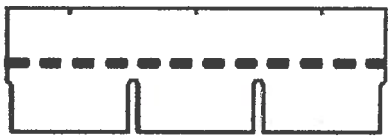
- ***Great For Reroofing...*** 50% more sturdy than standard shingles, so they look great even when installed over an existing roof
- ***Stays In Place...*** Dura Grip® adhesive seals each shingle tightly and reduces the risk of shingle blow-off

* See ltd. warranty for complete coverage and restrictions

Specifications for Royal Sovereign

Heavyweight 3-Tab Shingle
25-Year Ltd. Transferable Warranty
60 mph Ltd. Wind Warranty
Fiberglass Asphalt Shingle
Algae Eater™ Protection (in certain areas)
Class A rating from UL
Passes UL 997 Wind Test
CSA A123.5-M90 and CSA A123.5-98
ASTM D3018 Type 1
ASTM D3161 Type 1
ASTM D3462*
Dade County Approved
Meets Wisconsin Administrative Code
Approx. 80 Pieces/Square (English)
Approx. 65 Pieces/Square (Metric)
Approx. 3 Bundles/Square
Approx. 320 Nails/Square (English)
Approx. 260 Nails/Square (Metric)
5" Exposure (English)
5 5/8" Exposure (Metric)

*This product is manufactured to meet or exceed ASTM D3462; values from subsequent testing may vary depending on storage conditions



13 1/4" x 39 3/8" Metric
12" x 36" English

Royal Sovereign® shingles are available nationwide

ENERGY STAR

Applies to Royal Sovereign White Shingles Only.

MIAMI-DADE
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

GAF Materials Corporation
1361 Alps Road.
Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: GAF Royal Sovereign Shingle

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA #04-0820.01 and consists of pages 1 through 5.
The submitted documentation was reviewed by Mark A. Zehnal, CPRC

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	07310 Asphalt Shingles
Materials	3-Tab
Deck Type:	Wood

1. SCOPE

This renews GAF Royal Sovereign Shingle as manufactured by GAF Materials Corp described in Section 2 of this Notice of Acceptance.

2. PRODUCT DESCRIPTION

Product	Dimensions	Test Specifications	Product Description
GAF Royal Sovereign	12" x 36"	PA 110	Fiberglas reinforced heavy weight asphalt roof shingle, with a 3-Tab profile

3. EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Center for Applied Engineering	PA 100		02/23/94
PRI Asphalt Technologies, Inc.	TAS 100	GAF-107-02-01	11/15/05
		GAF-105-02-01	11/14/05
Underwriters Laboratories, Inc.	PA 107	Modifed ASTM D 3161	04/13/94
Underwriters Laboratories, Inc.	Modified ASTM D3161	05CA48258	11/28/05
		05CA47804	11/11/05
Underwriters Laboratories, Inc.	ASTM 3462	ASTM D3462	03/26/94
PRI Asphalt Technologies, Inc.	ASTM D3462	GAF-107-02-02	11/02/05
Center for Applied Engineering	257966	ASTM D3462	03/21/97

4. LIMITATIONS

- **4.1** Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- **4.2** Shall not be installed on roof mean heights in excess of 33 ft.

5. INSTALLATION

- **5.1** Shingles shall be installed in compliance with Roofing Application Standard RAS 115.
- **5.2** Flashing shall be in accordance with Roofing Application Standard RAS 115
- **5.3** The manufacturer shall provide clearly written application instructions.
- **5.4** Exposure and course layout shall be in compliance with Detail 'A', attached.
- **5.5** Nailing shall be in compliance with Detail 'B', attached.

6. LABELING

- **6.1** Shingles shall be labeled with the Miami-Dade Logo or the wording "Miami-Dade County Product Control Approved".

7. BUILDING PERMIT REQUIREMENTS

- **7.1** Application for building permit shall be accompanied by copies of the following:

7.1.1 This Notice of Acceptance.

7.1.2 Any other documents required by the Building Official or the applicable code in order to properly evaluate the installation of this system.

8. MANUFACTURING PLANTS

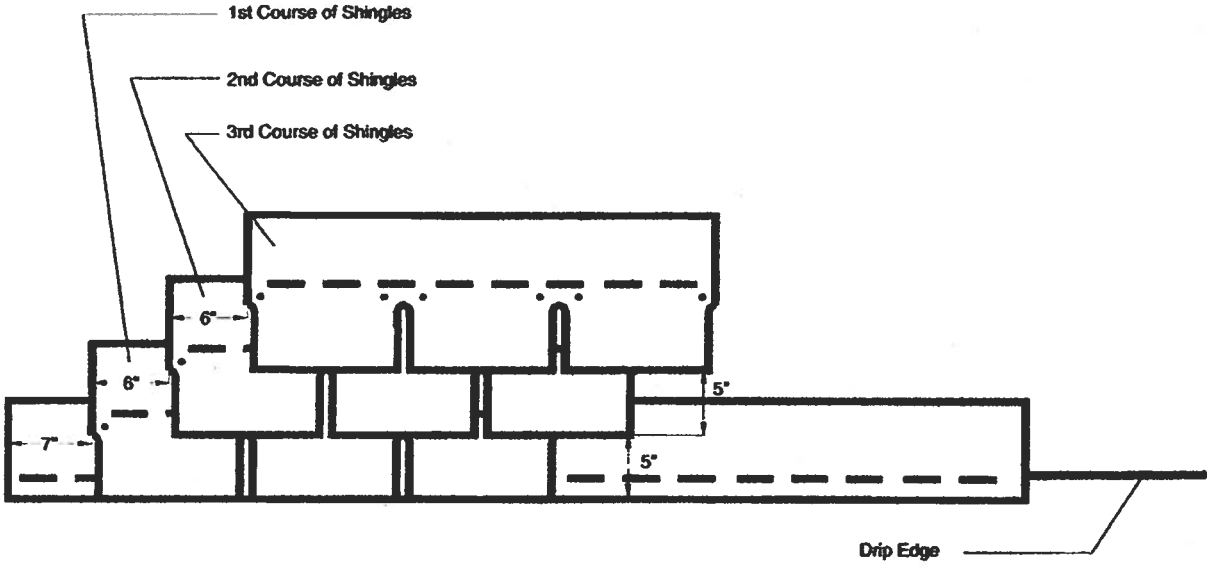
8.1 Tampa, FL
GAFMC
5138 Madison Avenue,
Tampa, FL 33619
Ph: (813) 248-6202

8.2 Savannah, GA
GAFMC
1 Brampton Road
P.O. Box 7329
Savannah, GA 31418
Ph: (912) 966-8800

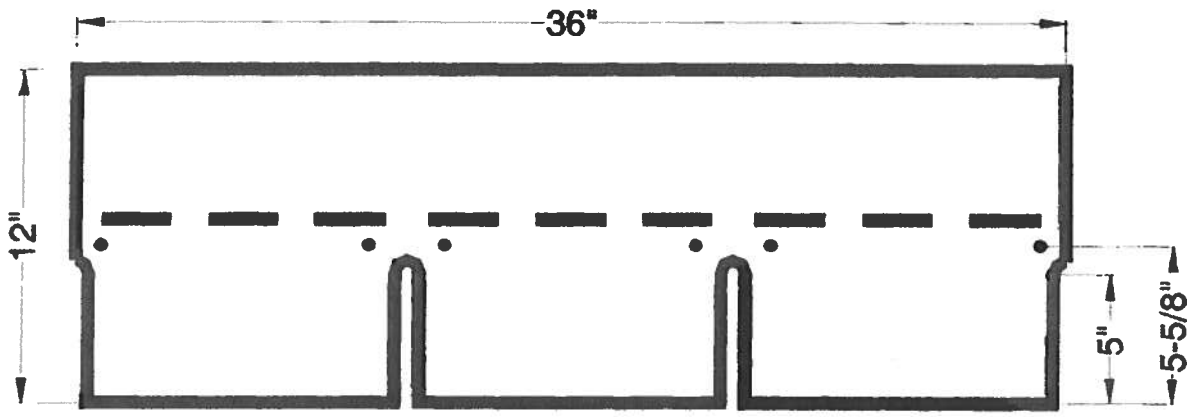
8.3 Erie, PA
GAFMC
218 West Bayfront Parkway
Erie, Pa 16507
Ph: (814)-452-3291

8.4 Quakertown, PA
GAFMC
60 Pacific Drive
Quakertown, PA 18951
Ph: (215)-529-4200

DETAIL A



DETAIL B



END OF THIS ACCEPTANCE

CAPITOL
WINDOWS AND DOORS

- Series 165 Single Hung and Fixed Windows
- Series 650 Single Hung and Fixed Windows
- Series 168 Horizontal Slider and Fixed Windows
- Series 680 Horizontal Slider and Fixed Windows

NOTE: SEE INDIVIDUAL TEST REPORT(S) FOR DP RATINGS AND MAXIMUM ALLOWABLE SIZES.

INSTALLATION INSTRUCTIONS FOR "APPROVED FOR FLORIDA" ALUMINUM FIN WINDOWS

Capitol Windows & Doors appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition – proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

1 Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin. Place a continuous bead of caulk on the back side of nail fin (mounting flange).

2. Set unit plumb and square into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit frequently as fasteners are set.

3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (stud). Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to **35**, do not exceed **24"** spacing of additional screws. For DPs from **35.1** to **50**, do not exceed **18"** spacing.

4. Caulk entire perimeter of fin to mounting surface joint and caulk over screw heads.
Note: this step can be eliminated if 4" wide adhesive type flashing is used (sill 1st., jambs 2nd., head 3rd.).

5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.

6. Remove plaster, mortar, paint, and debris that has collected on the unit and make sure that sash/vent tracks and interlocks are also clean. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass; scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent.

- CAUTION -

Capitol Windows & Doors or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. BetterBilt window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing (tempered glass) near doors, bathtubs, and shower enclosures. Also be aware of other code requirements such as emergency egress and structural / energy performance.

Corporate Headquarters:
M.I. Home Products
650 West Market St.
Gratz, PA 17030-0370
(717) 365-3300

www.mihp.com

STEVEN M. URICH
CERTIFICATE
No. 57795
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#t221
July 29, 2003

Rev. 7-24-03

Architectural Testing

FI # 675.18

ANSI/AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC.

SERIES/MODEL: 450/650/850 Drop-in Glazing
PRODUCT TYPE: Aluminum Single Hung Window with Nail Fin

	Summary of Results	
Title	**Test Specimen #1**	**Test Specimen #2**
Rating	H-R35 48 x 84	H-R40* 36 x 72
Operating Force	23 lbf max.	17 lbf max.
Air Infiltration	0.16 cfm/ft^2	0.17 cfm/ft^2
Water Resistance Test Pressure	6.00 psf	6.00 psf
Uniform Load Deflection Test Pressure	+35.3 psf/-47.2 psf	±50.0 psf
Uniform Load Structural Test Pressure	+53.0 psf/-70.8 psf	±75.0 psf
Forced Entry Resistance	Grade 10	Grade 10

Reference should be made to Report No. 42963.03-122-47 for complete test specimen description and data.

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC.
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.:	42963.03-122-47
Test Dates:	10/18/02
And:	03/04/05
Report Date:	06/14/05
Expiration Date:	10/18/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on two Series/Model 450/650/850 drop-in glazing, aluminum single hung windows at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: H-R35 48 x 84; Test Specimen #2: H-R40* 36 x 72. Test specimen description and results are reported herein.

General Note: An asterisk (*) next to the performance grade indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.

Test Specification: The test specimens were evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 450/650/850 Drop-in Glazing

Product Type: Aluminum Single Hung Window with Nail Fin

Test Specimen #1: H-R35 48 x 84 (Oriel)

Overall Size: 3' 11-5/8" wide by 6' 11-5/8" high

Interior Sash Size: 3' 9-1/4" wide by 2' 5-3/4" high

Fixed Daylight Opening Size: 3' 6-3/8" wide by 4' 2-5/8" high

Screen Size: 3' 7-5/8" wide by 2' 5" high

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Test Specimen Description: (Continued)

Test Specimen #2: H-R40* 36 x 72

Overall Size: 3' 0-1/4" wide by 6' 0-1/4" high

Interior Sash Size: 2' 9-3/4" wide by 2' 11-7/8" high

Fixed Daylight Opening Size: 2' 7" wide by 2' 9" high

Screen Size: 2' 8-3/16" wide by 2' 11-3/8" high

The following descriptions apply to all specimens.

Finish: All aluminum was white.

Glazing Details: The specimen utilized 5/8" thick sealed insulating glass constructed from two sheets of 3/16" thick clear annealed glass and a metal reinforced butyl spacer system. The lites were interior glazed onto double-sided adhesive foam tape and secured with a flexible vinyl snap-in glazing beads.

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.187" backed polypile with center fin	1 Row	Fixed meeting rail
0.230" high by 0.187" backed polypile with center fin	2 Rows	Sash stiles
3/4" wide by 5/8" long polypile pad	4 pieces	All corners of sash
1/4" foam filled vinyl bulb seal	1 Row	Bottom rail

Frame Construction: The frame was constructed of thermally broken extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two #6 x 1" screws per cap. Meeting rail was then secured to the frame utilizing two #6 x 1" screws.

Test Specimen Description: (Continued)

Sash Construction: The sash was constructed of thermally broken extruded aluminum with coped, and butted corners fastened with one #8 x 3/4" screws per corner through the rails into the stile screw boss.

Screen Construction: The screen was constructed of roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible wrap around vinyl spline.

Hardware:

Description	Quantity	Location
Metal cam lock	1 per sash	Interior meeting rail midspan
Plastic tilt latch	2 per sash	Interior meeting rail ends
Metal tilt pin	2 per sash	Bottom rail ends
Balance assembly	2 per sash	One per jamb
Spring loaded retainer pin	2 per screen	4" from stiles on bottom screen rail

Drainage:

Description	Quantity	Location
Sloped sill	1	Sill

Installation: The specimens were installed into a #2 Spruce-Pine-Fir wood buck. The nail fins were back bedded in silicone and secured with #8 x 1-5/8" drywall screws located 2-1/2" from corners and 14" on center around nail fin perimeter. Silicone was utilized around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-R35 48 x 84 (Oriel)			
2.2.1.6.1	Operating Force	23 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.16 cfm/ft^2	0.30 cfm/ft^2 max.

Note #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2-97 for air infiltration.

2.1.3	Water Resistance per ASTM E 547 (with and without screen) 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting rail) (Loads were held for 52 seconds)		
	15.0 psf (positive)	0.14"	See Note #2
	15.0 psf (negative)	0.14"	See Note #2

Note #2: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

2.1.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	22.5 psf (positive)	0.01"	0.17" max.
	22.5 psf (negative)	0.01"	0.17" max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Test Specimen #1: H-R35 48 x 84 (Oriel) (Continued)		
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction - 50 lbs		
	Right stile	0.06"/12%	0.50"/100%
	Left stile	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 588		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
	Optional Performance		
4.3	Water Resistance per ASTM E 547 (with and without screen) 6.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting rail) (Loads were held for 52 seconds)		
	35.3 psf (positive)	0.27"	See Note #2
	47.2 psf (negative)	0.35"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	53.0 psf (positive)	0.02"	0.17" max.
	70.8 psf (negative)	0.06"	0.17" max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Test Specimen #2: H-R40* 36 x 72		
	Optional Performance		
4.3	Water Resistance per ASTM E 547 (with and without screen) 6.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting rail) (Loads were held for 52 seconds)		
	50.0 psf (positive)	0.18"	See Note #2
	50.0 psf (negative)	0.15"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	75.0 psf (positive)	0.02"	0.12" max.
	75.0 psf (negative)	0.01"	0.12" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess vlm

Digitally Signed for: Mark A. Hess by Vicki L. McElwain

Mark A. Hess
Technician

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E.
Senior Project Engineer

MAH:vlm

Architectural Testing

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	06/15/05	N/A	Original report issue

EVALUATION REPORT

Title:	Evaluation of Light Commercial Doors for Wind load and Impact Rating
Report #:	S05-012
Manufacturer:	Ingersoll-Rand Company Security & Safety Americas 9017 Blue Ash Road Cincinnati, OH 45242-6816
Technical Contact	Yuriy Farber Product Testing/ Application Engineer
Prepared by:	Gordon Thomas, P.E. Florida # 46718
Date:	June 3, 2005

I. Introduction/ Scope

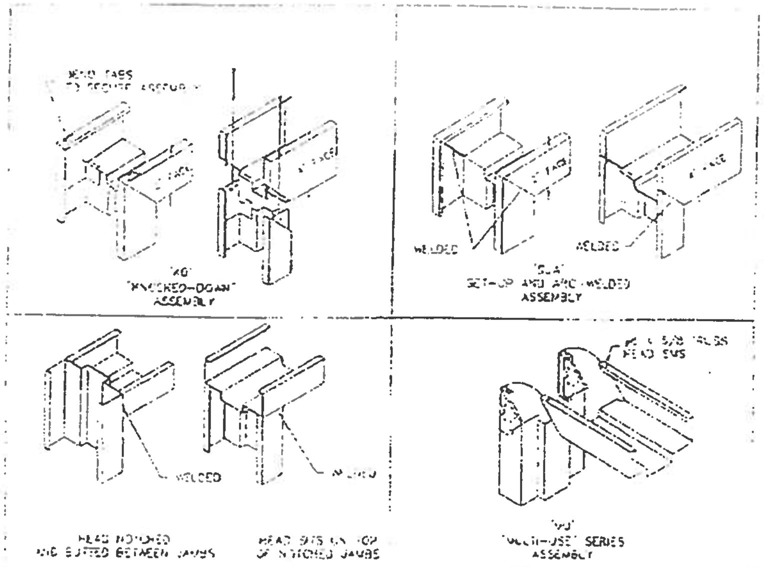
Based on wind load test results from Dade County approvals, the following evaluation will estimate the performance for light gauge single panel commercial door.

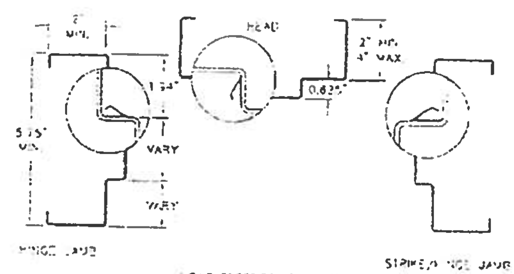
II. Reference Material

The following items were used to prepare the evaluation report:

A. Dade County NOA # 03-1107.03, February 19, 2004
ExpiDoor Single Outswing Steel Commercial Door- Impact
B. Dade County NOA # 03-0206.04, November 28, 2003
Schlage/Broadway/Dexter Passage locks w/ Deadbolts Hardware
C. Dade County NOA # 01-0129.10, May 24, 2001
Series L, SL, CE & B 20 ga Outswing Commercial Steel Door- Impact
D. Dade County NOA # 04-0203.03, October 21, 2004
Series H16-4 8080 Flush Double/Single Steel Commercial Outswing Door
E. Intertek Test Report #3067867, April 18, 2005
Impact & Cyclic Load Tests of Outswing Single Steel Door
F. Underwriter's Laboratory Report, File R3993, Dated September 16. 2004
Door Assemblies with Frames and Hardware Tested to ASTM E330-02
G. IR Dwg# S05-012, L/B/T/CE Series Single Door, 5 sheets, Dated 5/25/05
H. ANSI A250.13-2003, Test and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies

LTR	DESCRIPTION		DATE	APPROVED
A	[illegible]	[illegible]	05/23/05	





WEATHERSTRIPPING DETAIL
WHEN WATER INFILTRATION IS NOT REQUIRED
(ALL DIMENSIONS TYPICAL EXCEPT WHEN SPECIFIED)

TABLE 1. AVAILABLE FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAXIMUM DOOR OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESC.	GA./MIN. THK
F	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.097"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 2

CRS ASTM A1008
HRS ASTM A1011
GALV. A60 ASTM A924
STL. 304,316 ASTM A240

Hoffman 6/7/05 R-46718

NOTES

1. FRAME CONSTRUCTION
1.1 MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
1.2 FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 1)
2. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 2

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.

DRAWN: YMF

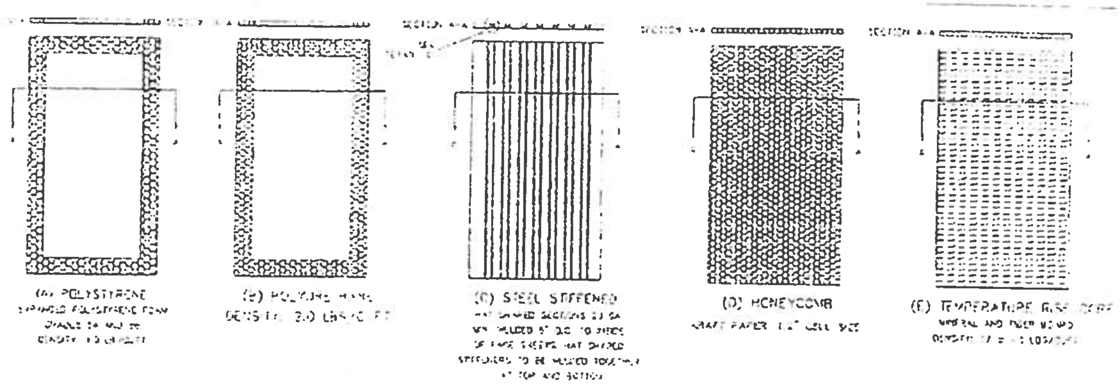
FRAME OPTIONS
CORNER DETAILS
PROFILE
WEATHERSTRIPPING ATTACHMENT

SC8-012 SHEET 3 OF 5

SCALE: NTS | AUTOCAD

CORE OPTIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG		



AVAILABLE DOOR CONFIGURATIONS
(SEE NOTE 1)

TABLE 1

DOOR SERIES	CORE MATERIAL PER SHT.7	MAXIMUM DOOR OPENING SIZE WIDTH	MAXIMUM DOOR OPENING SIZE HEIGHT	SKIN MATERIAL DESCR	SKIN MATERIAL GA./MIN. THK
L	HONEYCOMB POLYSTYRENE POLYURETHANE	3'0"	7'0"	CRS GALV	18/.042" 16/.053" 14/.067"
B	STEEL STIFFENED	3'0"	7'0"	CRS GALV	18/.042" 16/.053" 14/.067"
SL	HONEYCOMB POLYSTYRENE POLYURETHANE	3'0"	7'0"	CRS GALV	16/.042" 16/.053"
F	MINERAL FIBER	3'0"	7'0"	CRS GALV	16/.042" 16/.053" 14/.087"
SE	POLYSTYRENE/ HONEYCOMB	3'0"	7'0"	GALV	18/.042" 16/.053"

NOTES:

1. DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS = 1 3/4"
1.2. DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS (SEE TABLE 1)
1.3. ALL DOORS ARE FLUSH - NO LITES OR LOUVERS ALLOWED PER THIS APPROVAL
1.4. OPTIONAL DOOR VIEWER PREP IS ALLOWED WITH MAX. HOLE Ø5/8" (SEE DETAIL 6 ON SHT.5)
2. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3 MINIMUM YIELD STRESS FOR STEEL IS 44,600 PSI

TABLE 3

CRS ASTM A1008
HRS ASTM A1011
GALV. A60 ASTM A924
STL. 304,304 ASTM A240

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.

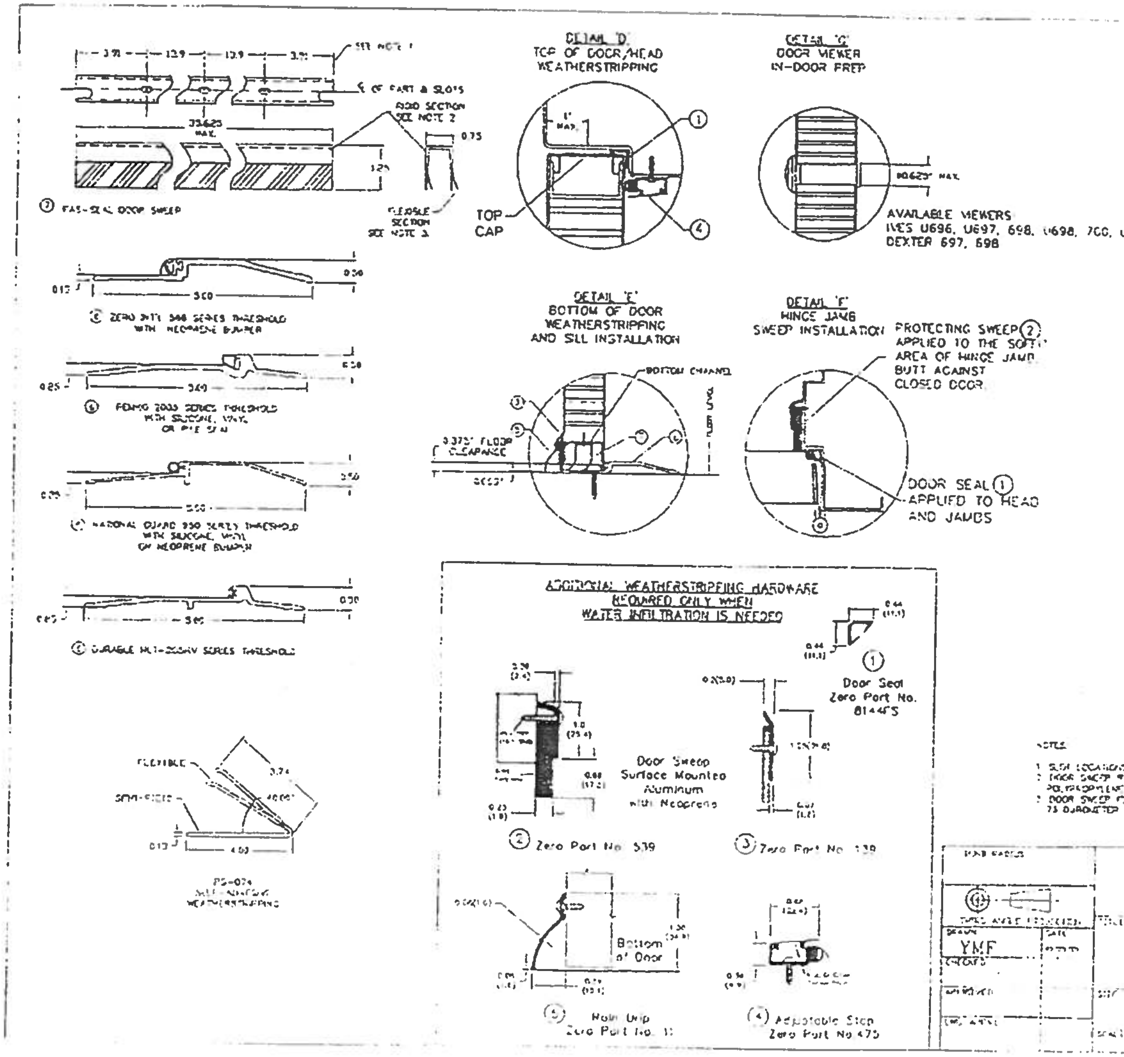
THIRD ANGLE PROJECTION

DRAWN: YMF

TITLE: DOOR CONFIGURATIONS CORE OPTIONS AND AND MATERIAL SPECS

DWG NO: S05-012 SHEET 4 OF 5 REV: A

SCALE: NTS AUTOCAD



LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	05/25/05	

NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX PD-159 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE 201-73 73 DUROMETER - SHORE A SCALE.

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.

TITLE: DOOR OPENING ACCESSORIES BOTTOM SWEEP, THRESHOLDS AND WEATHERSTRIPPING DETAILS TO MEET WATER INFILTRATION

DRAWN: YMF

DWG NO: S05 012 SHEET 5 OF 5 REV A

SCALE: NTS AUTOCAD

III. Evaluation

A. Wind Load Design

A door swings inward for an inswing application and outward away from the building for an outswing application. An inswing application relies on the hinges and lock to retain the opening while an outswing application also has the door frame for support.

A positive pressure wind load is directed towards the interior of the opening. Conversely, a negative wind load is directed away from the opening. For a positive outswing wind load application, the wind load applied to the door panel would be distributed around the frame equally. For a negative outswing wind load application, the wind load applied to the door panel will be focused around the hinges and lock/ dead bolt. The opposite applies for an inswing application.

B. Product Comparison

1. The following table shows the door frames that have already been tested and approved. This will be the basis for the comparative analysis. The Steelcraft door types are as follows: 1.) L –honecomb, polystyrene, or polyurethane core options; 2.) B – steel stiffened; 3.) T – Temperature rise core; 4.) SL – square edge door construction; 5.) CE – embossed panel door with polystyrene core.

TABLE 1

	ITS Report	NOA 03-1107.03	NOA 01-0129.10
Door Configuration	Single, Outswing	Single, Outswing	Single, Outswing
Door Type(s)	L Series	L Series	L, SL, CE & B
Frame Type(s)		PU	MU, F
Max Width Max Height	3' -4" 7' -2"	3' - 0" 7' - 0"	3' - 4" 7' - 2"
Design Pressure (psf)	+/- 70	+/- 70	+80/-53
Steel Thk (ga)	18	18	20
Lock Type(s)	Mortise w/ dead bolt Schlage, L95453P	Cylindrical Schlage D/ND Series Mortise Schlage L9400 Mortise Panic Device Monarch 18-M Series	Cylindrical Yale, 5407 Mortise Yale, 8747
Impact	Yes	Yes	Yes

TABLE 1 (Cont.)

	NOA 03-0206.04	NOA 04-0203.03	UL File R3993
Door Configuration	Single, Outswing/ Inswing	Single, Outswing/	Single, Outswing
Door Type(s)	B,L	H	L
Frame Type(s)		MU, F	F
Max Width Max Height	3' - 0" 8' - 0"	4 - 0" 8 - 0"	8 – 0" 8 – 0'
Design Pressure (psf)	+/-67	+/- 55 +/- 65	+/50 psf, Note 1
Steel Thk (ga)	24	16	18
Lock Type(s)	Cylindrical, Schlage F10 series, Deadbolt Broadway, U10 Series Deadbolt Broadway, B1060 Series U10 passage lock Dexter, J10 Series D60 Deadbolt Dexter, Cylindrical D60 Series, J10 lock Schlage, 210 Series Deadbolt & latch	Cylindrical, Schlage ND Series (55 psf) AL Series (65 psf) Cylindrical, Falcon T Series Cylindrical, Locknetics CM5100 Series	Cylindrical, Schlage ND/AL Series Cylindrical, Falcon T, B, Z, X, S, H Lock Mortise, Schlage L9000, L9400 Mortise, Falcon M Series Mortise, Locknetics CM5500
Impact	Yes	Yes	Yes

Note 1:

Since the door tested in the UL report is larger than the door under evaluation, the loads will be converted. A 4 ft x 8 ft door under a 50 psf windload exerts a 800 lb on the lock. This equates to a 76.1 psf windload for a 3 ft x 7 ft door size. Consequently the locks tested in the UL report can be used for applications using a 3 ft wide x 7 ft high door under a 75 psf or lower wind load.

2. The following table shows the door under evaluation.

TABLE 2

		Qualifying Report(s)
Door Configuration	Single, Outswing Single, Inswing	Various NOA 03-0206.04
Door Type(s)	L, B, T, SL, CE	NOA 01-0129.10
Max Width Max Height	3' -0" 7' -0"	NOA 03-1107.03
Design Pressure (psf)	+/- 70	NOA 03-1107.03
Steel Thk (ga)	18	NOA 03-1107.03
Lock Type(s)	Mortise, Schlage L9000, L9400 Series	UL File R3993, NOA 03-1107.03
	Mortise, Falcon M Series	UL File R3993
	Cylindrical, Schlage AL, ND, A Series	UL File R3993, NOA 04-0203.03
	Cylindrical, Falcon T, B, X, Z, S, H Series	UL File R3993, NOA 04-0203.03
	Mortise Exit Device Monarch, 18M Series	NOA 03-1107.03
	Cylindrical, w/ Deadlock Schlage, F Series Schlage, S200 Series Dexter, J Series Broadway, U Series	NOA 03-0206.04
Impact	Yes	Various

IV Limitation of Use

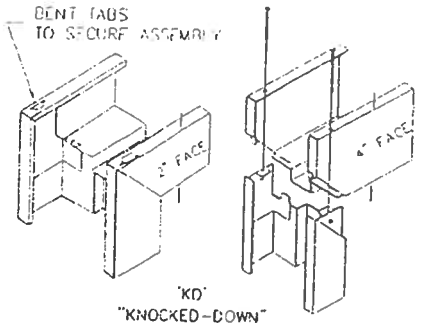
The following information summarizes the limitation of use for the doors/ frames under evaluation

1. Elevation

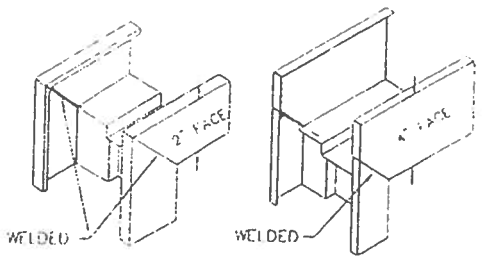
Maximum Frame Width:	3 ft - 0 in
Maximum Frame Height:	7 ft - 0 in
Maximum Wind Pressure:	+/-70 psf (Class 2 locks) +/- 67 psf (Light duty locks)
Door Panel Construction:	Refer to IR Dwg # S05-012, 5 Sheets, Dated 5/25/05
Weatherstrip Construction:	Refer to IR Dwg # S05-012, 5 Sheets, Dated 5/25/05
Frame Anchor Type, Size & Spacing:	Refer to IR Dwg # S05-012, 5 Sheets, Dated 5/25/05

Certification of Independence of Evaluation Entity

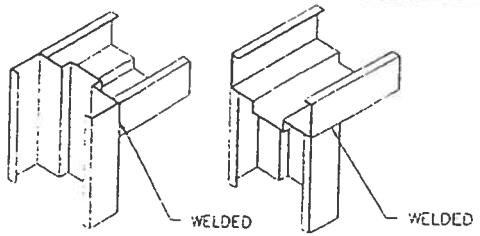
I hereby certify that (1) I have no financial interest in Ingersoll-Rand Company; (2) I am an independent licensed Professional Engineer in the State of Florida and; (3) I comply with the criteria of independence as stated in 9B-72.110 (3), F.A.C. and 9B-72.110(4), F.A.C.



'KD'
"KNOCKED-DOWN"
ASSEMBLY

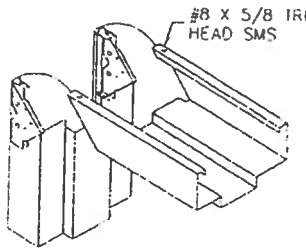


'SUA'
SET-UP AND ARC-WELDED
ASSEMBLY



HEAD NOTCHED
AND BUTTED BETWEEN JAMBS

HEAD SITS ON TOP
OF NOTCHED JAMBS



'MU'
"MULTI-USE" SERIES
ASSEMBLY

AVAILABLE FRAME CONFIGURATIONS
(SEE NOTE 2.)

TABLE 1.

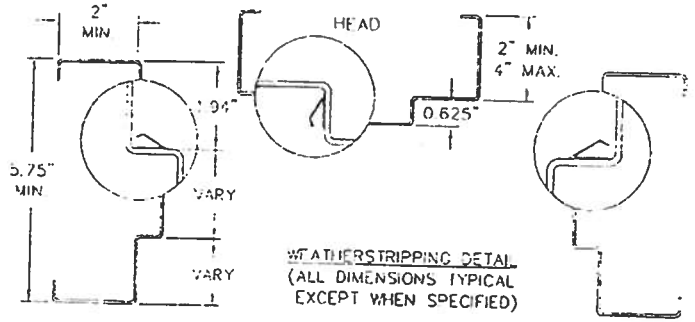
FRAME SERIES	JAMB DEPTH	MAXIMUM DOOR OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 2

CRS ASTM A1008
HRS ASTM A1011
CALV. A60 ASTM A924
STL. 304,306 ASTM A240

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	02/13/06	



HINGE JAMB

WEATHERSTRIPPING DETAIL
(ALL DIMENSIONS TYPICAL
EXCEPT WHEN SPECIFIED)

STRIKE/HINGE JAMB

NOTES:

1. FRAME CONSTRUCTION
1.1. MINIMUM JAMB DEPTH - 5 3/4". STOP HEIGHT - 5/8"
1.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE.1)

3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 2.

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF DATE 02/03/06

CHECKED

APPROVED

ENG. APPR.

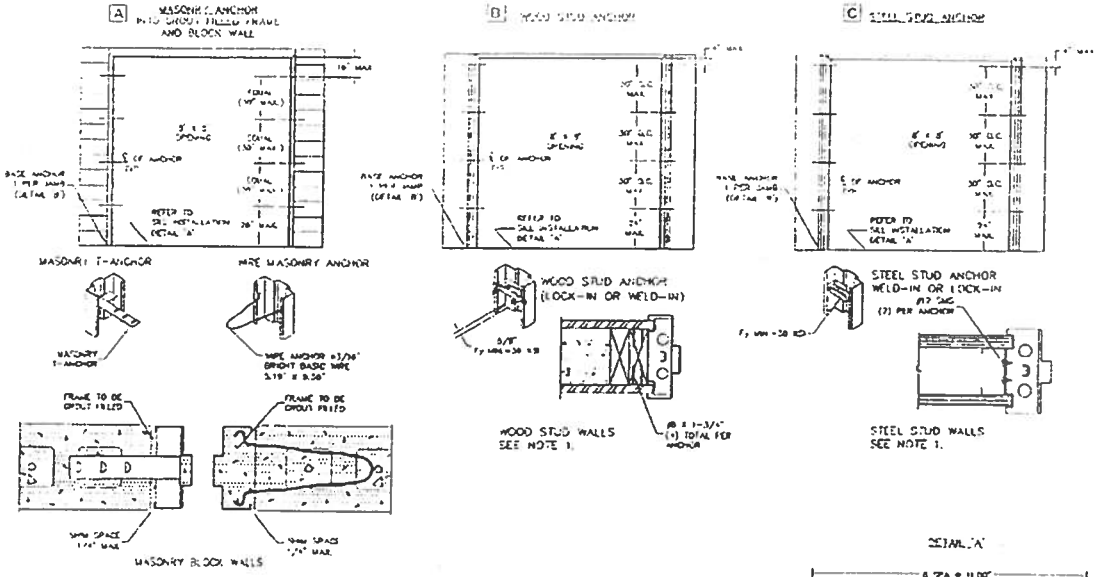
INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 Blue Ash Rd. Cincinnati, Ohio 45242

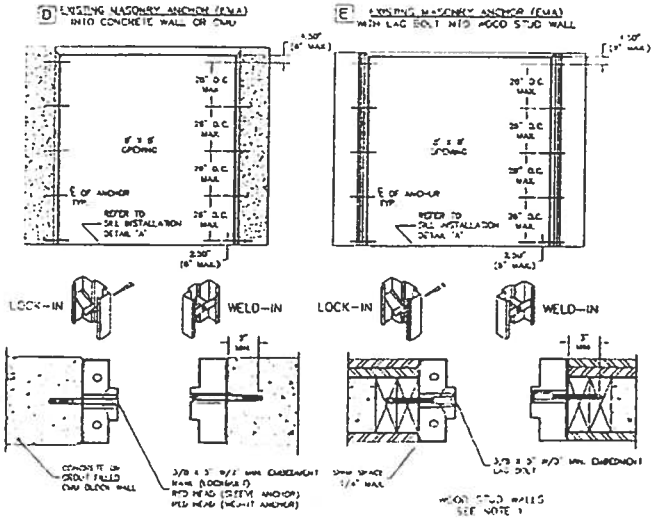
TITLE: ASW E330
FRAME OPTIONS
CORNER DETAILS
PROFILE
WEATHERSTRIPPING ATTACHMENT

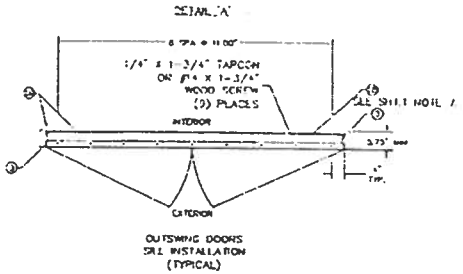
SIZE | DWG NO. E330/4 SHEET 2 OF 6 | REV A

SCALE NTS | AUTOCAD

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	YMF 02/13/06	

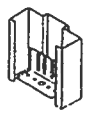






OUTSWING DOORS SILL INSTALLATION (TYPICAL)

DETAIL 'B'



JAMB BASE ANCHOR (WELDED OR ADJUSTABLE)

NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL STUD WALLS MUST BE DESIGNED TO CARRY SUFFICIENT LOAD.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. FRAME/ANCHOR INSTALLATION SHALL CONFORM TO THE STEELCRAFT INSTALLATION INSTRUCTIONS, SDI 105 *RECOMMENDED INSTALLATION INSTRUCTIONS FOR STEEL FRAMES*, AND ANSI/DHI A115.IG *INSTALLATION GUIDE FOR DOORS AND HARDWARE*

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF DATE 02/13/06

CHECKED

APPROVED

ENG. APPVL

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 Blue Ash Rd. Cincinnati, Ohio 45242

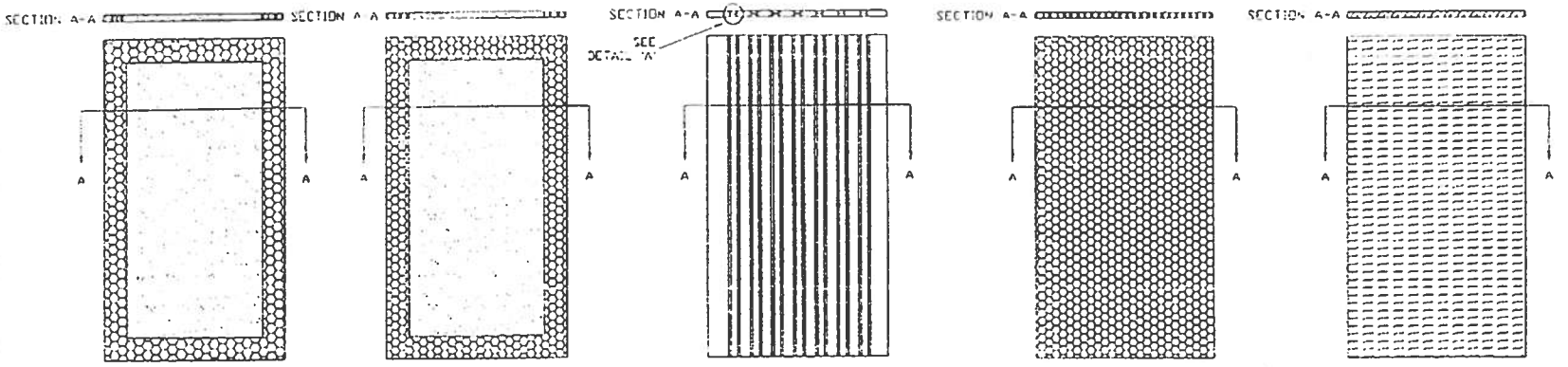
TITLE ASTM E330
ANCHOR DETAILS / MOUNTING CONDITIONS

SIZE A1 DWG NO E330/4 SHEET 3 OF 6 REV A

SCALE: NTS AUTOCAD

REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	APPROVAL DWG	YMF	02/14/06	

CORE OPTIONS



(A) POLYSTYRENE
EXPANDED POLYSTYRENE FOAM
GRADES S4 AND B6
DENSITY: 1.0 LB/CUFT

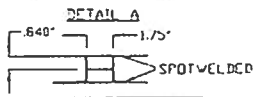
(B) POLYURETHANE
ELFOAM H203
DENSITY: 2.0 LBS/CUFT

(C) STEEL STIFFENED
HAT SHAPED SECTIONS 20 GA.
MIN. WELDED 6" O.C. TO INSIDE
OF FACE SHEETS. HAT SHAPED
STIFFENERS TO BE WELDED TOGETHER
AT TOP AND BOTTOM

(D) HONEYCOMB
KRAFT PAPER, 1.2" CELL SIZE

(E) TEMPERATURE RISE CORE
MINERAL AND FIBER BOARD
DENSITY: 17 ± 1.5 LBS/CUFT

DETAIL A



DOOR WIDTH	STIFFENERS
22",20"	3
24",26"	4
2'10",30"	5

AVAILABLE DOOR CONFIGURATIONS
(SEE NOTE 1.)

TABLE 1

DOOR SERIES	CORE MATERIAL PER SHT.7	MAXIMUM DOOR OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR	GA./MIN. THK
L	HONEYCOMB POLYSTYRENE POLYURETHANE	4'0"	8'0"	CRS GALV	18/.044" 16/.055" 14/.070"
B	STEEL STIFFENED	4'0"	8'0"	CRS GALV	18/.044" 16/.055" 14/.070"
SI	HONEYCOMB POLYSTYRENE POLYURETHANE	4'0"	8'0"	CRS GALV	18/.044" 16/.055"
I	MINERAL FIBER	4'0"	8'0"	CRS GALV	18/.044" 16/.055" 14/.070"
CE	POLYSTYRENE/ HONEYCOMB	3'8" 3'0"	7'0" 8'0"	GALV	18/.044" 16/.055"

NOTES:

1. DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS – 1 3/4"
1.2. DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS (SEE TABLE.1)
1.3. CORES ARE SHOWN AS FOR FLUSH DOOR CONSTRUCTION. GLASS LITE CUTOUTS WILL REQUIRE TO OMIT CORE MATERIAL AT THE CUTOUT AREA
3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3.

TABLE 3

CRS ASTM A1008
HRS ASTM A1011
GALV AND ASTM A924
STL 304,306 ASTM A240

BEND RADIUS

THIRD ANGLE PROJECTION

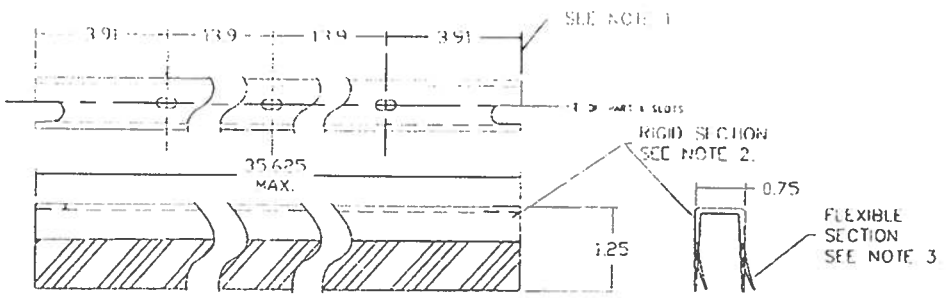
DRAWN: YMF
CHECKED:
APPROVED:
ENG. APPVL:
DATE:

INGERSOLL-RAND COMPANY
STEELCRAFT MFG
[illegible]

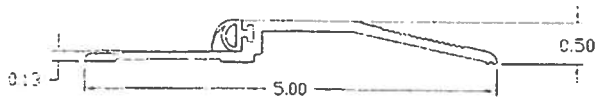
SIZE: FLAT
SCALE: NTS AUTOCAD

DOOR CONFIGURATIONS
CORE OPTIONS AND
AND MATERIAL SPECS.

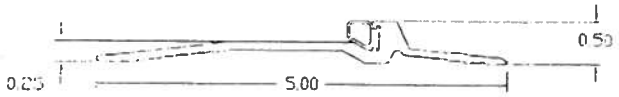
DWG NO. 1330/4 SHEET 4 OF 6 REV A



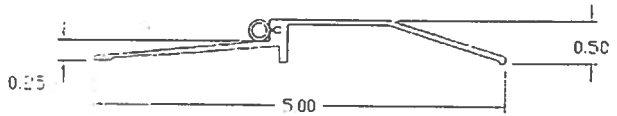
PAS-SEAL DOOR SWEEP



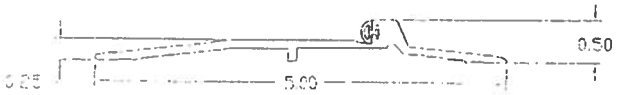
ZERO INT'L 566 SERIES THRESHOLD
WITH NEOPRENE BUMPER



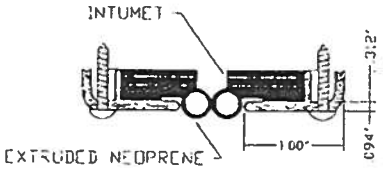
PEMKO 200S SERIES THRESHOLD
WITH SILICONE, VINYL
OR PILE SEAL



NATIONAL GUARD 950 SERIES THRESHOLD
WITH SILICONE, VINYL
OR NEOPRENE BUMPER

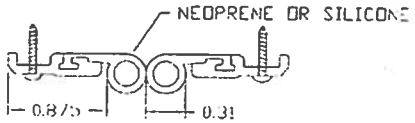


DURABLE HLT-205HV SERIES THRESHOLD

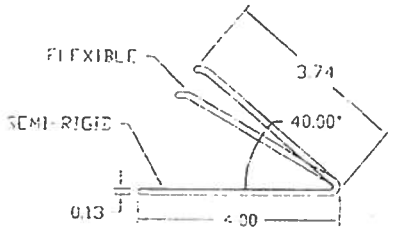


ZERO INT'L 328 SERIES
SPLIT ASTRAGAL WITH NEOPRENE SEAL

PEMCO 303 SERIES
SPLIT ASTRAGAL WITH SILICONE, VINYL
OR PEMCOPRENE SEAL



NATIONAL GUARD 137 SERIES
SPLIT ASTRAGAL WITH NEOPRENE
OR SILICONE SEAL



PS-074
SELF-ADHESIVE
WEATHERSTRIPPING

NOTES:

1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO FAX #PD-195 POLYPROPYLENE HOMOPOLYMER
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73 73 DUROMETER - SHORE A SCALE

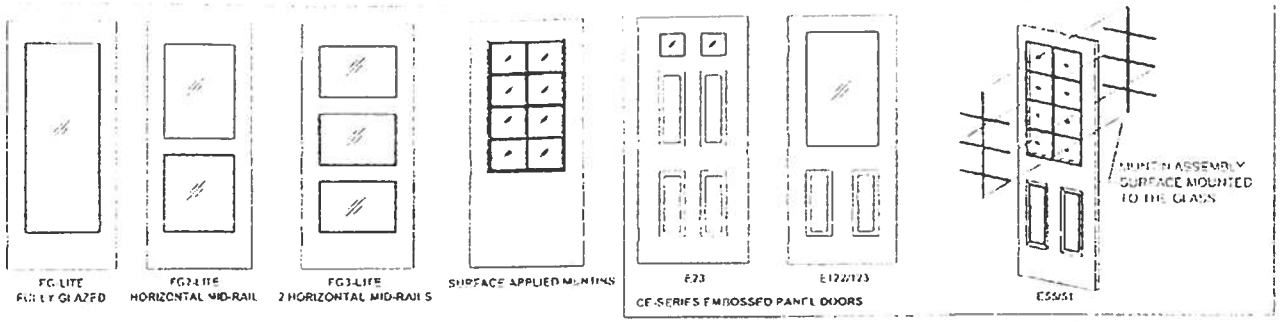
REVISIONS

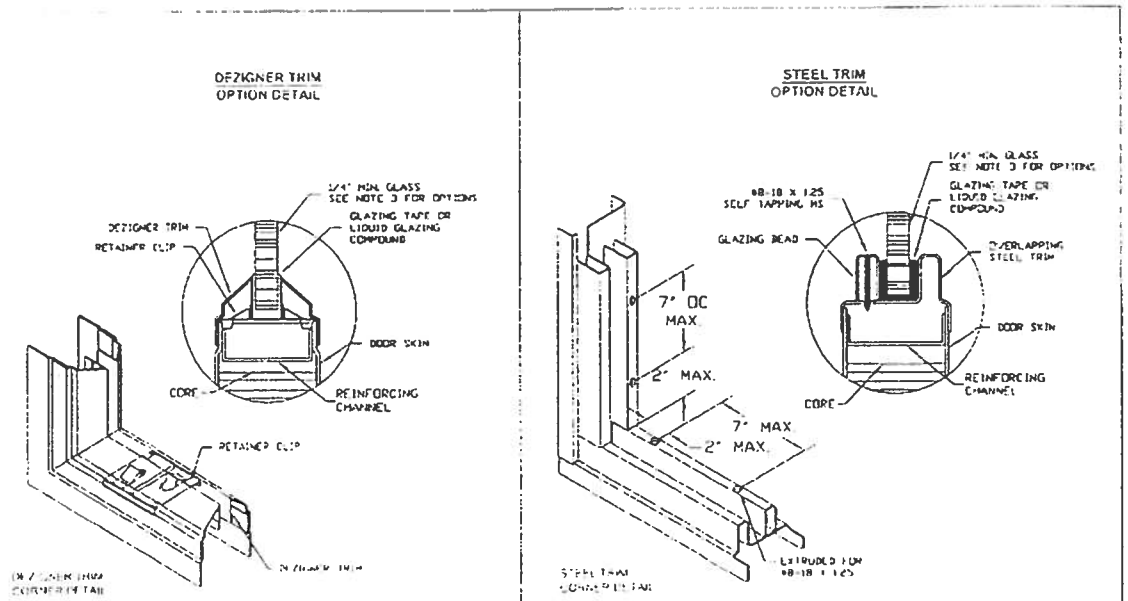
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10/14/06	

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.

DRWN	YMF
CHKD	
APPROVED	
MFG APPROVAL	
DATE	
TITLE	ASTM E330 DOOR ACCESSORIES BOTTOM SWEEP THRESHOLDS AND WEATHERSTRIPPING
SIZE	A
SCALE	NTS
DWG NO	UL E330/4 SHEET 5 OF 6 A

ALTERAD





REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	02/17/98	

NOTES:

1. DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS – 1 3/4"
1.2. MAXIMUM GLAZING HEIGHT AND WIDTH AS PER SHEET 1.
1.3. MAXIMUM GLAZING OPENING SIZE WILL CHANGE IN PROPORTION WITH DOOR SIZE

2. FRAME CONSTRUCTION
1.1. MINIMUM JAMB DEPTH – 5 3/4", STOP HEIGHT – 5/8"
2.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE 2)

3. GLASS OPTIONS: 1/4" TEMPERRED, WIRE GLASS OR CLEAR CERAMIC.

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF DATE 02/17/98

CHECKED

APPROVED

ENG. APPVL

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 Blue Ash Rd. Cincinnati Ohio 45242

ASTM F330

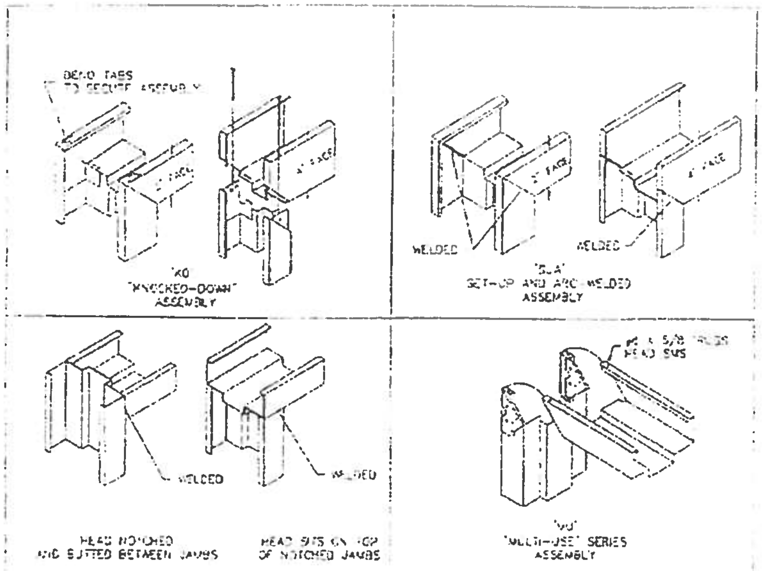
TITLE: GLASS DOOR CONFIGURATIONS AND DETAILS

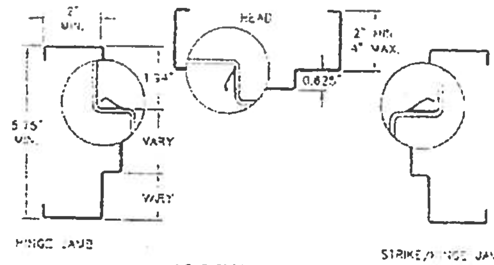
SIZE: FLAT DWG NO. F330/4 SHEET 6 OF 6 REV A

SCALE: NTS AUTOCAD

REVISIONS

LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DRAWING	YMF	05/25/05	





WEATHERSTRIPPING DETAIL
WHEN WATER INFILTRATION IS NOT REQUIRED
(ALL DIMENSIONS TYPICAL EXCEPT WHEN SPECIFIED)

TABLE 1. AVAILABLE FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAXIMUM DOOR OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK.
F	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	15/.053" 14/.067" 12/.097"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 2.

CRS ASTM A1008
HRS ASTM A1011
GALV. A40 ASTM A924
STL: 304,316 ASTM A240

Nolan 6/7/05 FL46718

NOTES

1. FRAME CONSTRUCTION
1.1 MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
1.2 FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE 1)
2. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 2

BEND RADIUS	INGERSOLL-RAND COMPANY STEELCRAFT MFG.
THIRD ANGLE PROJECTION	
DRAWN: YMF	DATE	TITLE: FRAME OPTIONS CORNER DETAILS PROFILE WEATHERSTRIPPING ATTACHMENT
CHECKED	
APPROVED	DWG NO.: S05-012 SHEET 3 OF 5 REV. A
DWG APPR.	SCALE: NTS AUTOCAD

EVALUATION REPORT

Title:	Evaluation of Light Commercial Doors for Wind load and Impact Rating
Report #:	S05-012
Manufacturer:	Ingersoll-Rand Company Security & Safety Americas 9017 Blue Ash Road Cincinnati, OH 45242-6816
Technical Contact	Yuriy Farber Product Testing/ Application Engineer
Prepared by:	Gordon Thomas, P.E. Florida # 46718
Date:	June 3, 2005

I. Introduction/ Scope

Based on wind load test results from Dade County approvals, the following evaluation will estimate the performance for light gauge single panel commercial door.

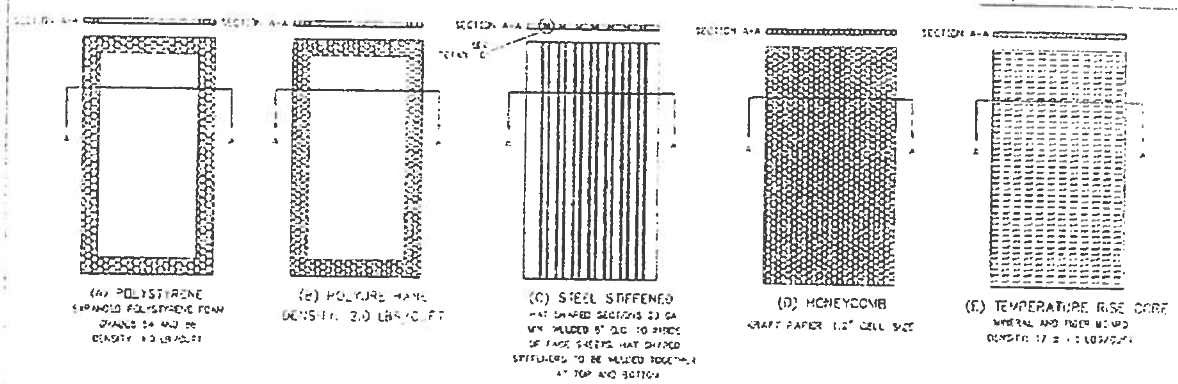
II. Reference Material

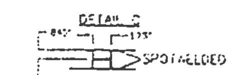
The following items were used to prepare the evaluation report:

A. Dade County NOA # 03-1107.03, February 19, 2004
ExpiDoor Single Outswing Steel Commercial Door- Impact
B. Dade County NOA # 03-0206.04, November 28, 2003
Schlage/Broadway/Dexter Passage locks w/ Deadbolts Hardware
C. Dade County NOA # 01-0129.10, May 24, 2001
Series L, SL, CE & B 20 ga Outswing Commercial Steel Door- Impact
D. Dade County NOA # 04-0203.03, October 21, 2004
Series H16-4 8080 Flush Double/Single Steel Commercial Outswing Door
E. Intertek Test Report #3067867, April 18, 2005
Impact & Cyclic Load Tests of Outswing Single Steel Door
F. Underwriter's Laboratory Report, File R3993, Dated September 16, 2004
Door Assemblies with Frames and Hardware Tested to ASTM E330-02
G. IR Dwg# S05-012, L/B/T/CE Series Single Door, 5 sheets, Dated 5/25/05
H. ANSI A250.13-2003, Test and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies

CORE OPTIONS

LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	[illegible]	





CORE WIDTH	STIFFENERS
[illegible]	3
[illegible]	4
[illegible]	5

TABLE 1 AVAILABLE DOOR CONFIGURATIONS (SEE NOTE 1)

DOOR SERIES	CORE MATERIAL PER SHT.7	MAXIMUM DOOR OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
L	HONEYCOMB POLYSTYRENE POLYURETHANE	3'0"	7'0"	CRS GALV	18/.042" 16/.053" 14/.067"
B	STEEL STIFFENED	3'0"	7'0"	CRS GALV	18/.042" 16/.053" 14/.067"
SL	HONEYCOMB POLYSTYRENE POLYURETHANE	3'0"	7'0"	CRS GALV	16/.042" 16/.053"
T	MINERAL FIBER	3'0"	7'0"	CRS GALV	18/.042" 16/.053" 14/.087"
CE	POLYSTYRENE/ HONEYCOMB	3'0"	7'0"	GALV	18/.042" 16/.053"

TABLE 3

CRS	ASTM A1008
HRS	ASTM A1011
GALV. A60	ASTM A924
STL. 304,304	ASTM A240

NOTES:

1. DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS = 1 3/4"
1.2. DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS (SEE TABLE 1)
1.3. ALL DOORS ARE FLUSH – NO LITES OR LOUVERS ALLOWED PER THIS APPROVAL
1.4. OPTIONAL DOOR VIEWER PREP IS ALLOWED WITH MAX. HOLE Ø5/8" (SEE DETAIL G ON SHT.5)
2. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3 MINIMUM YIELD STRESS FOR STEEL IS 44,600 PSI

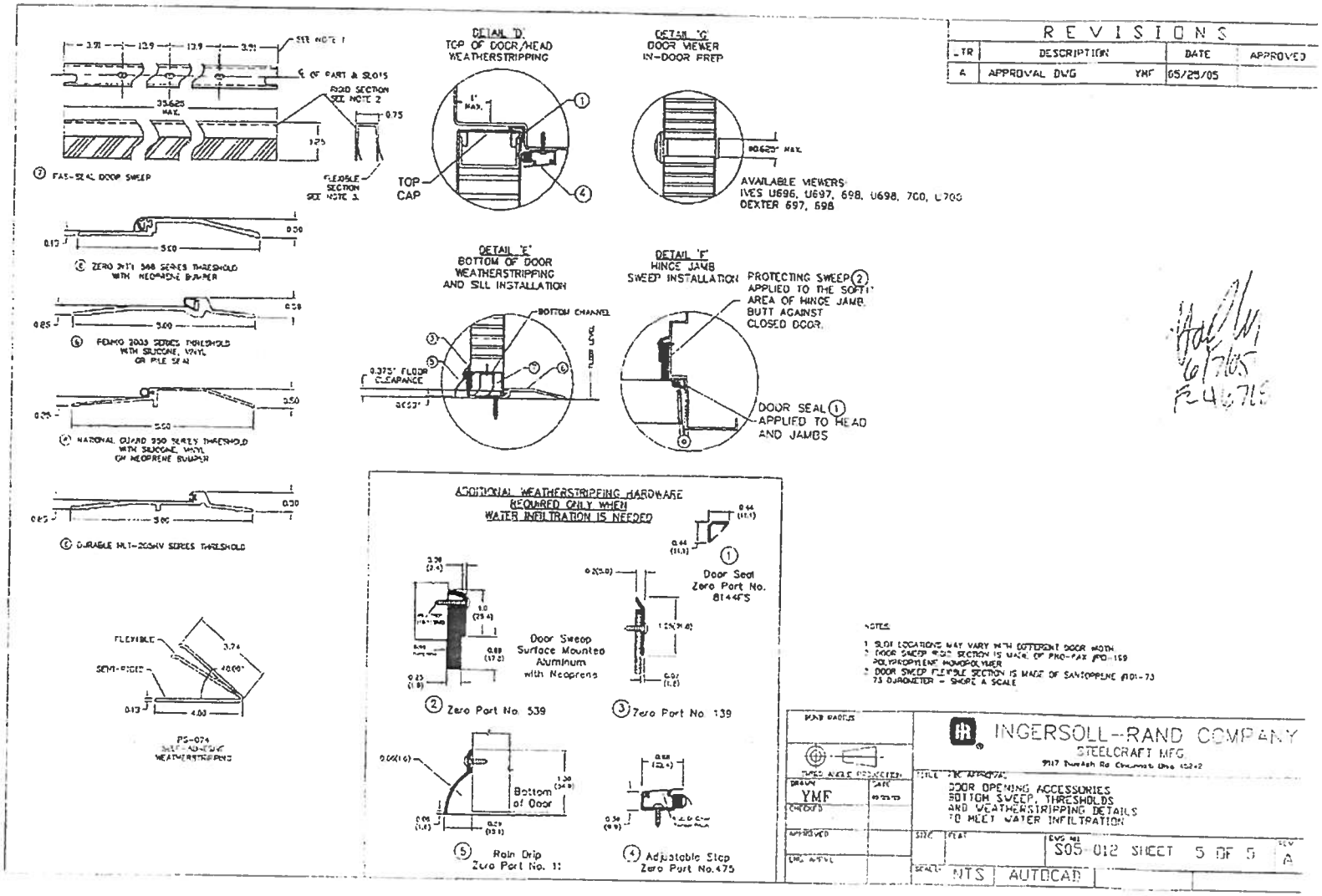
INGERSOLL-RAND COMPANY
STEELCRAFT MFG.

DRAWN: YMF

TITLE: DOOR CONFIGURATIONS CORE OPTIONS AND AND MATERIAL SPECS

DWG NO. S05-012 SHEET 4 OF 5 REV A

SCALE NTS AUTOCAD



REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG YMF	05/25/05	

NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP FLEX SECTION IS MADE OF PRO-PAX #PD-159 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73 73 DUROMETER - SHORE A SCALE

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9717 Princeton Rd. Cincinnati Ohio 45252

DRAWN	YMF
CHECKED	
APPROVED	
ENG. APPR.	

TITLE: DOOR OPENING ACCESSORIES
BOTTOM SWEEP, THRESHOLDS
AND WEATHERSTRIPPING DETAILS
TO MEET WATER INFILTRATION

DWG NO. S05-012 SHEET 5 OF 5 REV A

SCALE: NTS AUTOCAD

6/7/05
FC 4675

III. Evaluation

A. Wind Load Design

A door swings inward for an inswing application and outward away from the building for an outswing application. An inswing application relies on the hinges and lock to retain the opening while an outswing application also has the door frame for support.

A positive pressure wind load is directed towards the interior of the opening. Conversely, a negative wind load is directed away from the opening. For a positive outswing wind load application, the wind load applied to the door panel would be distributed around the frame equally. For a negative outswing wind load application, the wind load applied to the door panel will be focused around the hinges and lock/ dead bolt. The opposite applies for an inswing application.

B. Product Comparison

1. The following table shows the door frames that have already been tested and approved. This will be the basis for the comparative analysis. The Steelcraft door types are as follows: 1.) L –honecomb, polystyrene, or polyurethane core options; 2.) B – steel stiffened; 3.) T – Temperature rise core; 4.) SL – square edge door construction; 5.) CE – embossed panel door with polystyrene core.

TABLE 1

	ITS Report	NOA **03-1107.03**	NOA **01-0129.10**
Door Configuration	Single, Outswing	Single, Outswing	Single, Outswing
Door Type(s)	L Series	L Series	L, SL, CE & B
Frame Type(s)		PU	MU, F
Max Width Max Height	3' -4" 7' -2"	3' - 0" 7' - 0"	3' - 4" 7' - 2"
Design Pressure (psf)	+/- 70	+/- 70	+80/-53
Steel Thk (ga)	18	18	20
Lock Type(s)	Mortise w/ dead bolt Schlage, L95453P	Cylindrical Schlage D/ND Series Mortise Schlage L9400 Mortise Panic Device Monarch 18-M Series	Cylindrical Yale, 5407 Mortise Yale, 8747
Impact	Yes	Yes	Yes

TABLE 1 (Cont.)

	NOA **03-0206.04**	NOA **04-0203.03**	UL **File R3993**
Door Configuration	Single, Outswing/ Inswing	Single, Outswing/	Single, Outswing
Door Type(s)	B,L	H	L
Frame Type(s)		MU, F	F
Max Width Max Height	3' - 0" 8' - 0"	4' - 0" 8' - 0"	8' – 0" 8' – 0"
Design Pressure (psf)	+/-67	+/- 55 +/- 65	+/50 psf, Note 1
Steel Thk (ga)	24	16	18
Lock Type(s)	Cylindrical, Schlage F10 series, Deadbolt Broadway, U10 Series Deadbolt Broadway, B1060 Series U10 passage lock Dexter, J10 Series D60 Deadbolt Dexter, Cylindrical D60 Series, J10 lock Schlage, 210 Series Deadbolt & latch	Cylindrical, Schlage ND Series (55 psf) AL Series (65 psf) Cylindrical, Falcon T Series Cylindrical, Locknetics CM5100 Series	Cylindrical, Schlage ND/AL Series Cylindrical, Falcon T, B, Z, X, S, H Lock Mortise, Schlage L9000, L9400 Mortise, Falcon M Series Mortise, Locknetics CM5500
Impact	Yes	Yes	Yes

Note 1:

Since the door tested in the UL report is larger than the door under evaluation, the loads will be converted. A 4 ft x 8 ft door under a 50 psf windload exerts a 800 lb on the lock. This equates to a 76.1 psf windload for a 3 ft x 7 ft door size. Consequently the locks tested in the UL report can be used for applications using a 3 ft wide x 7 ft high door under a 75 psf or lower wind load.

2. The following table shows the door under evaluation.

TABLE 2

		Qualifying Report(s)
Door Configuration	Single, Outswing Single, Inswing	Various NOA 03-0206.04
Door Type(s)	L, B, T, SL, CE	NOA 01-0129.10
Max Width Max Height	3' -0" 7' -0"	NOA 03-1107.03
Design Pressure (psf)	+/- 70	NOA 03-1107.03
Steel Thk (ga)	18	NOA 03-1107.03
Lock Type(s)	Mortise, Schlage L9000, L9400 Series	UL File R3993, NOA 03-1107.03
	Mortise, Falcon M Series	UL File R3993
	Cylindrical, Schlage AL, ND, A Series	UL File R3993, NOA 04-0203.03
	Cylindrical, Falcon T, B, X, Z, S, H Series	UL File R3993, NOA 04-0203.03
	Mortise Exit Device Monarch, 18M Series	NOA 03-1107.03
	Cylindrical, w/ Deadlock Schlage, F Series Schlage, S200 Series Dexter, J Series Broadway, U Series	NOA 03-0206.04
Impact	Yes	Various

IV Limitation of Use

The following information summarizes the limitation of use for the doors/ frames under evaluation:

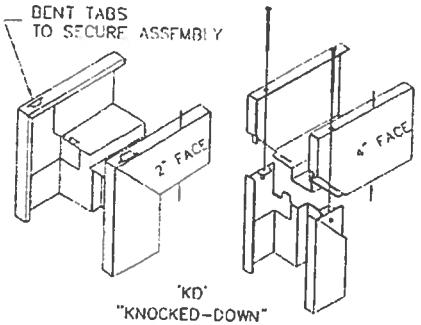
1. Elevation

Maximum Frame Width:	3 ft - 0 in
Maximum Frame Height:	7 ft - 0 in
Maximum Wind Pressure:	+/-70 psf (Class 2 locks) +/- 67 psf (Light duty locks)
Door Panel Construction:	Refer to IR Dwg # S05-012, 5 Sheets, Dated 5/25/05
Weatherstrip Construction:	Refer to IR Dwg # S05-012, 5 Sheets, Dated 5/25/05
Frame Anchor Type, Size & Spacing:	Refer to IR Dwg # S05-012, 5 Sheets, Dated 5/25/05

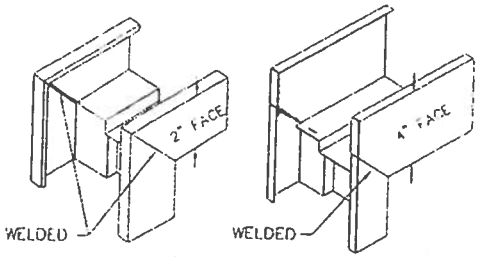
Certification of Independence of Evaluation Entity

I hereby certify that (1) I have no financial interest in Ingersoll-Rand Company; (2) I am an independent licensed Professional Engineer in the State of Florida and; (3) I comply with the criteria of independence as stated in 9B-72.110 (3), F.A.C. and 9B-72.110(4), F.A.C.

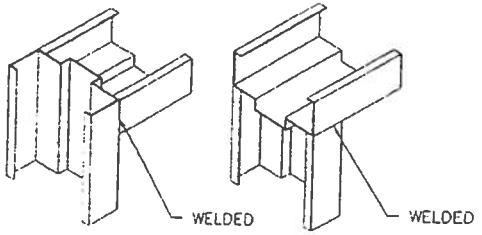
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	02/13/06	



'KD'
"KNOCKED-DOWN"
ASSEMBLY

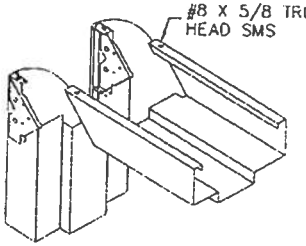


'SUA'
SET-UP AND ARC-WELDED
ASSEMBLY

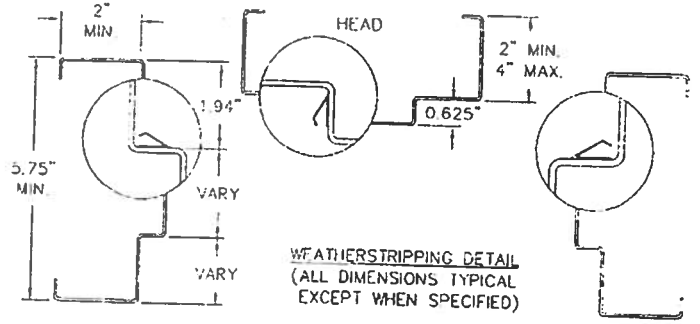


HEAD NOTCHED
AND BUTTED BETWEEN JAMBS

HEAD SITS ON TOP
OF NOTCHED JAMBS



'MU'
"MULTI-USE" SERIES
ASSEMBLY



HINGE JAMB

WEATHERSTRIPPING DETAIL
(ALL DIMENSIONS TYPICAL
EXCEPT WHEN SPECIFIED)

STRIKE/HINGE JAMB

AVAILABLE FRAME CONFIGURATIONS
(SEE NOTE 2.)

TABLE 1.

FRAME SERIES	JAMB DEPTH	MAXIMUM DOOR OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 2.

CRS ASTM A1008
HRS ASTM A1011
GALV. A60 ASTM A924
STL: 304,306 ASTM A240

NOTES:

1. FRAME CONSTRUCTION
1.1. MINIMUM JAMB DEPTH – 5 3/4", STOP HEIGHT – 5/8"
1.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE.1)
3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 2.

BEND RADIUS

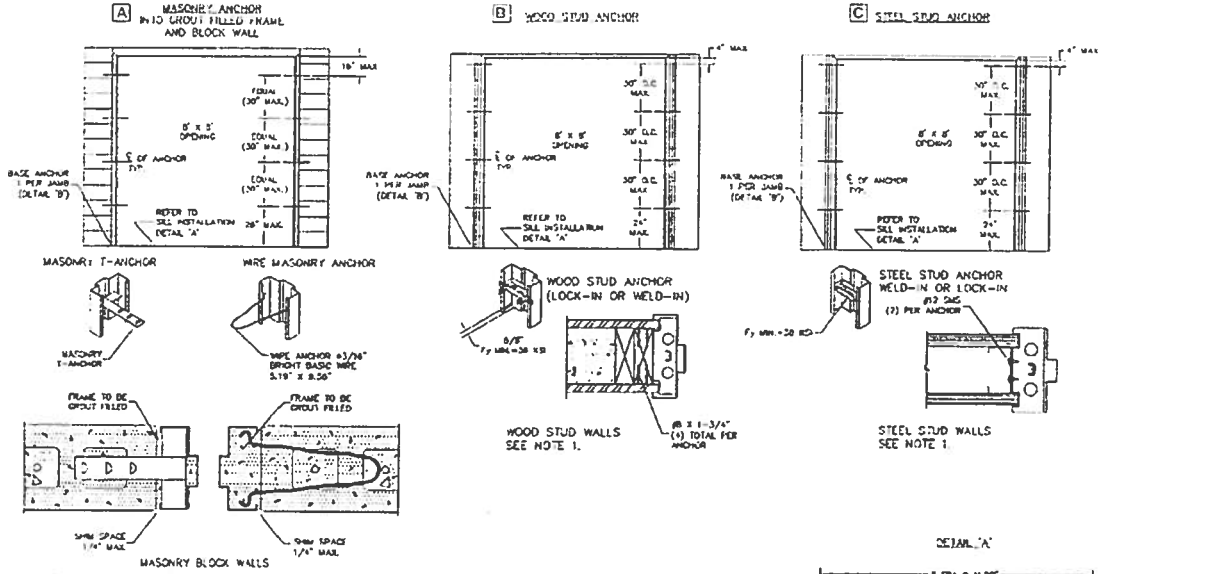
THIRD ANGLE PROJECTION

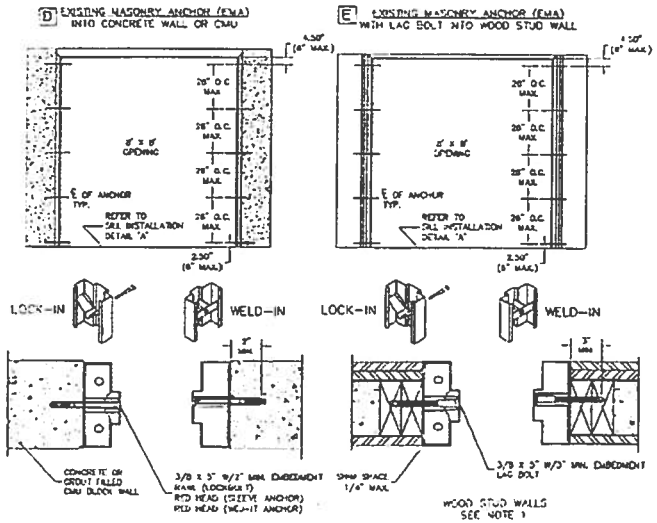
DRAWN	DATE
YMF	02/13/06
CHECKED	
APPROVED	
ENG. APPVL	

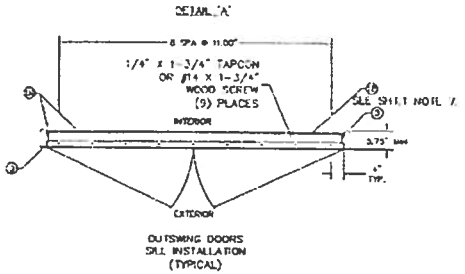
INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd. Cincinnati Ohio 45242

TITLE: ASTM E330
FRAME OPTIONS
CORNER DETAILS
PROFILE
WEATHERSTRIPPING ATTACHMENT

SIZE	FSCM NO.	DWG NO.	REV
		E330/4 SHEET 2 OF 6	A
SCALE: NTS	AUTOCAD		







NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY SUFFICIENT LOAD.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. FRAME/ANCHOR INSTALLATION SHALL CONFORM TO THE STEELCRAFT INSTALLATION INSTRUCTIONS, SDI 105 *RECOMMENDED INSTALLATION INSTRUCTIONS FOR STEEL FRAMES*, AND ANSI/DHI A115.IG *INSTALLATION GUIDE FOR DOORS AND HARDWARE*

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPRTVAL DRAWING YMF	02/13/06	

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF DATE 02/13/06

CHECKED

APPROVED

ENG. APPVL.

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 Blue Ash Rd. Cincinnati Ohio 45242

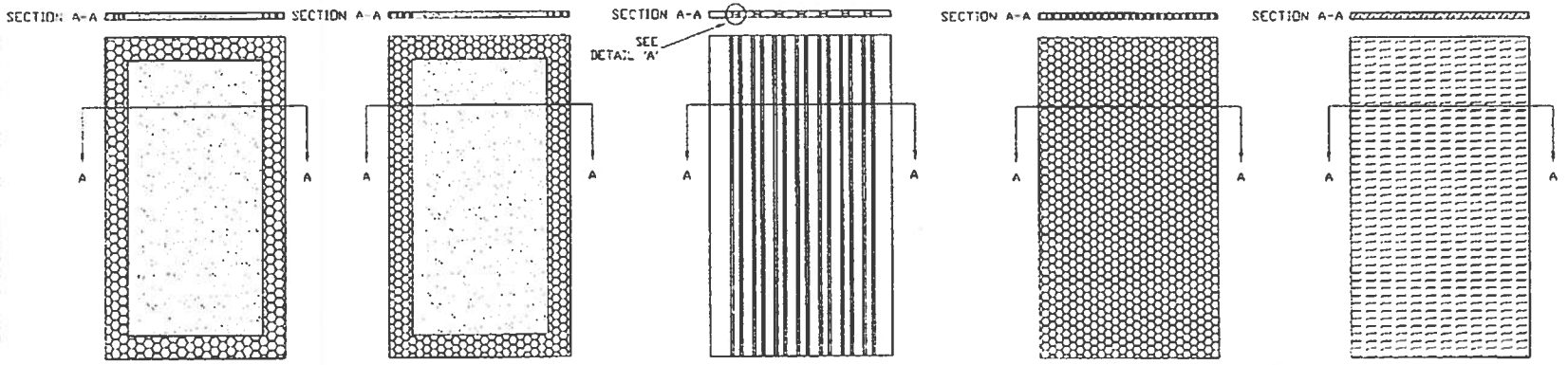
TITLE ASTM E330
ANCHOR DETAILS / MOUNTING CONDITIONS

SIZE FLAT DWG NO. E330/4 SHEET 3 OF 6 REV A

SCALE: NTS AUTOCAD

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	02/14/06	

CORE OPTIONS



(A) POLYSTYRENE

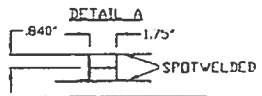
EXPANDED POLYSTYRENE FOAM
GRADES 54 AND 86
DENSITY: 1.0 LB/CUFT

(B) POLYURETHANE

ELFOAM H200
DENSITY: 2.0 LBS/CUFT

(C) STEEL STIFFENED

HAT SHAPED SECTIONS 20 GA. MIN. WELDED 6" O.C. TO INSIDE OF FACE SHEETS. HAT SHAPED STIFFENERS TO BE WELDED TOGETHER AT TOP AND BOTTOM



DOOR WIDTH	STIFFENERS
22",20"	3
24",26"	4
2'10",30"	5

(D) HONEYCOMB

KRAFT PAPER, 1.2" CELL SIZE

(E) TEMPERATURE RISE CORE

MINERAL AND FIBER BOARD
DENSITY: 17 ± 1.5 LBS/CUFT

AVAILABLE DOOR CONFIGURATIONS
(SEE NOTE 1.)

TABLE 1.

DOOR SERIES	CORE MATERIAL PER SHT.7	MAXIMUM DOOR OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
L	HONEYCOMB POLYSTYRENE POLYURETHANE	4'0"	8'0"	CRS GALV	18/.044" 16/.055" 14/.070"
B	STEEL STIFFENED	4'0"	8'0"	CRS GALV	18/.044" 16/.055" 14/.070"
SI	HONEYCOMB POLYSTYRENE POLYURETHANE	4'0"	8'0"	CRS GALV	18/.044" 16/.055"
T	MINERAL FIBER	4'0"	8'0"	CRS GALV	18/.044" 16/.055" 14/.070"
CE	POLYSTYRENE/ HONEYCOMB	3'8" 3'0"	7'0" 8'0"	GALV	18/.044" 16/.055"

NOTES:

1. DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS – 1 3/4"
1.2. DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS (SEE TABLE.1)
1.3. CORES ARE SHOWN AS FOR FLUSH DOOR CONSTRUCTION. GLASS LITE CUTOUTS WILL REQUIRE TO OMIT CORE MATERIAL AT THE CUTOUT AREA
3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3.

TABLE 3.

CRS ASTM A1008
HRS ASTM A1011
GALV A60 ASTM A924
STL 304,306 ASTM A240

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF DATE 02/14/06

CHECKED

APPROVED

ENG APPVL

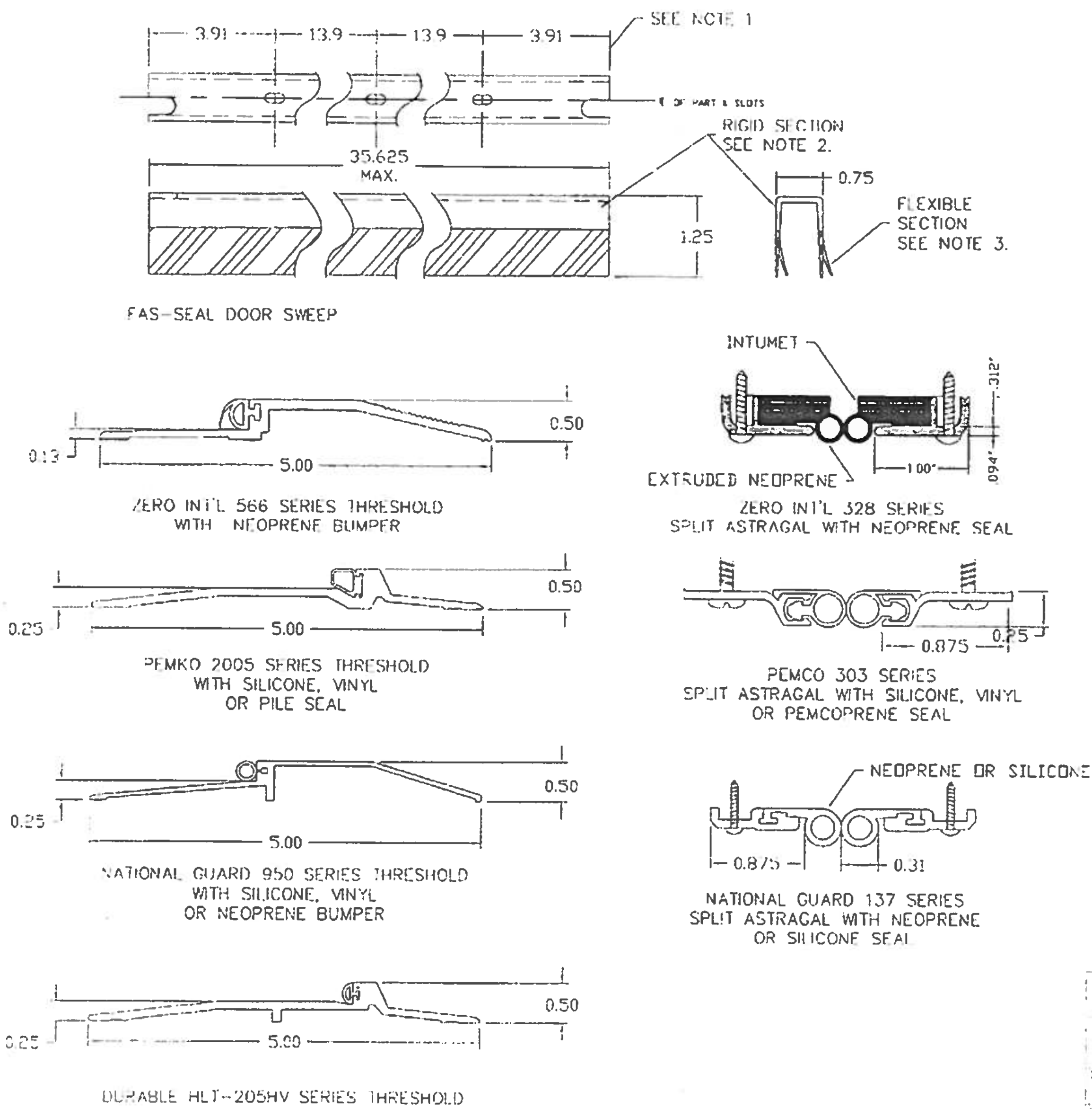
INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 Blue Ash Rd. Cincinnati Ohio 45242

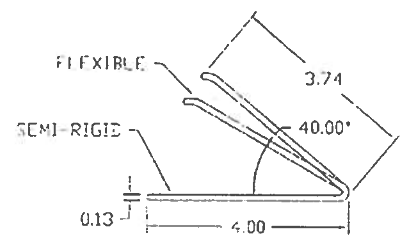
TITLE ASTM E330
DOOR CONFIGURATIONS
CORE OPTIONS AND
AND MATERIAL SPECS.

SIZE FLAT DWG NO. C330/4 SHEET 4 OF 6 REV A

SCALE: NTS AUTOCAD

LTR	REVISIONS DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	02/14/06	





PS-074
SELF-ADHESIVE
WEATHERSTRIPPING

NOTES:

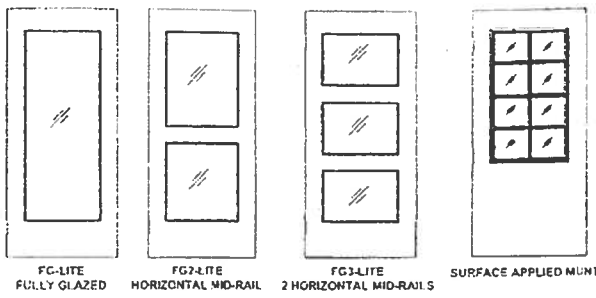
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73 73 DUROMETER - SHORE A SCALE

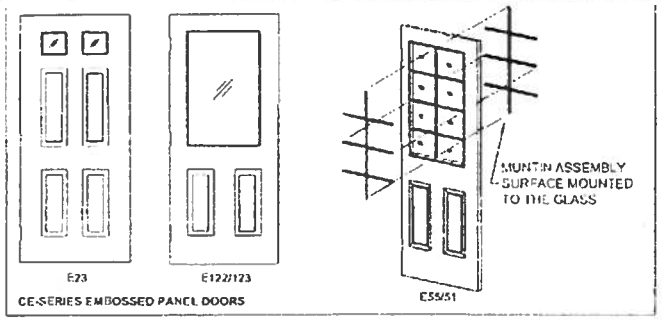
BEND RADIUS

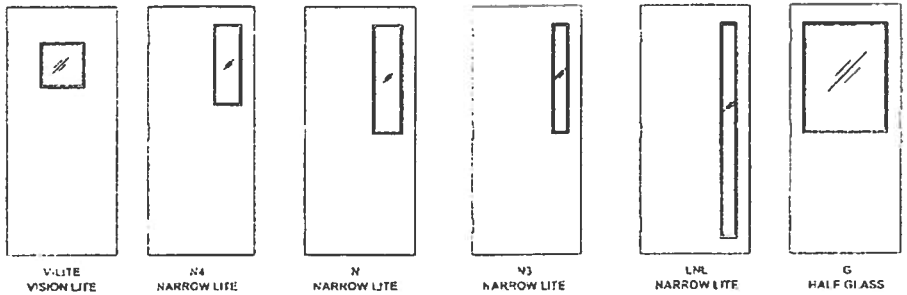
THIRD ANGLE PROJECTION

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd Cincinnati Ohio 45242

DRAWN YMF	DATE	TITLE ASTM E330 DOOR ACCESSORIES BOTTOM SWEEP THRESHOLDS AND WEATHERSTRIPPING
CHECKED		
APPROVED	SIZE	FLAT / DWG NO. UL E330/4 SHEET 5 OF 6 / REV A
ENG APPROVAL	SCALE NTS	AUTOCAD



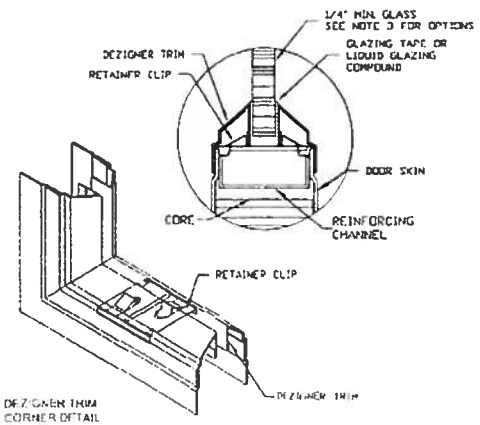




REVISIONS

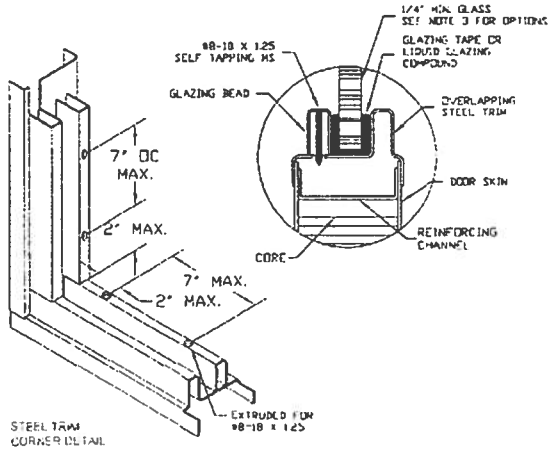
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	02/14/06	

DEZIGNER TRIM
OPTION DETAIL



DEZIGNER TRIM
CORNER DETAIL

STEEL TRIM
OPTION DETAIL



STEEL TRIM
CORNER DETAIL

NOTES:

1. DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS – 1 3/4"
1.2. MAXIMUM GLAZING HEIGHT AND WIDTH AS PER SHEET 1.
1.3. MAXIMUM GLAZING OPENING SIZE WILL CHANGE IN PROPORTION WITH DOOR SIZE.

2. FRAME CONSTRUCTION
1.1. MINIMUM JAMB DEPTH – 5 3/4", STOP HEIGHT – 5/8"
2.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE.2)

3. GLASS OPTIONS: 1/4" TEMPERRED, WIRE GLASS OR CLEAR CERAMIC.

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN: YMF DATE: 02/14/06
CHECKED:
APPROVED:
ENG. APPVL:

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 Blueash Rd. Cincinnati Ohio 45242

TITLE: GLASS DOOR CONFIGURATIONS AND DETAILS
ASTM E330

SIZE: FLAT
DWG NO: E330/4 SHEET 6 OF 6
REV: A
SCALE: NTS AUTOCAD

Prepared by/return to:
Mark E. Raymond, Esq.
Post Office Box 3888
West Palm Beach, Florida 33402

Permit No. 2490

Tax Folio No._____

Inst:2006020361 Date:08/25/2006 Time:16:48
DC,P.DeWitt Cason,Columbia County B:1094 P:147

NOTICE OF COMMENCEMENT

STATE OF FLORIDA

COUNTY OF COLUMBIA

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement. This notice shall be of no force and effect if construction is not commenced within ninety (90) days of recordation.

1. Legal Description of property: See Exhibit A
   Street Address of property: 413 N.E. McCloskey Avenue, Lake City32055

2. General description of improvements: Construction of fertilizer manufacturing plant

3. Owner: Mayo Fertilizer, Incorporated
   P.O. Box 357
   Mayo, Florida 32066
   Interest in property: Fee

4. Contractor: Harlie Lynch Construction Company, Inc.
   P.O. Box 187
   Mayo, Florida 32066
   Phone No.: (386) 294-1891

5. Surety: None

6. Lender: Bank of America, N.A.
   9000 Southside Blvd.
   Building 100
   FL9-100-03-17
   Jacksonville, Florida 32256

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7, Florida Statutes: None

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. #24910

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109476 Company Phone No. 386-755-6511
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: ~~Hal~~ Hal Lynch Const Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 413 N.E. Montclair Ave. Lake City FL

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 0 Inside 0 Type of Fill Mix

Section 4: Treatment Information

Date(s) of Treatment(s) 9-12-06
Brand Name of Product(s) Used Dursban 4-PRO
EPA Registration No. 70644-1
Approximate Final Mix Solution % 0.25%
Approximate Size of Treatment Area: Sq. ft. 2400 Linear ft. 0 Linear ft. of Masonry Voids 0
Approximate Total Gallons of Solution Applied 240
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments

Name of Applicator(s) Steve Brannen Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Date 9-12-06

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

8. In addition to himself, Owner designates:

Bank of America, N.A.
9000 Southside Blvd.
Building 100
FL9-100-03-17
Jacksonville, Florida 32256

to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement: December 31, 2007.

MAYO FERTILIZER, INCORPORATED

By: _____
Name: Michael H. Shaw
Its President

STATE OF FLORIDA
COUNTY OF COLUMBIA
The foregoing instrument was acknowledged before me this 25th day of August, 2006, by Michael H. Shaw, President of Mayo Fertilizer, Inc. who produced a driver's license as identification.

_____
NOTARY PUBLIC

MARK E. RAYMOND
MY COMMISSION # DD 572862
EXPIRES: August 15, 2010
Bonded Thru Notary Public Underwriters

ATTACHMENTS: (check if applicable)

_X_ Legal Description, Exhibit "A"
___ Bond, Exhibit "B" (a copy of Payment Bond, if any, must be attached)

Inst:2006020361 Date:08/25/2006 Time:16:48
_____DC,P.DeWitt Cason,Columbia County B:1094 P:148

EXHIBIT A

LEGAL DESCRIPTION

All that portion of the Northeast 1/4 of the Northwest 1/4 and the Northwest 1/4 of the Northeast 1/4 of Section 36, Township 3 South, Range 17 East, Columbia County, Florida, which lies East of Forest Service Road No. 236 and North of the Seaboard Coastline Railroad, and is described more particularly as follows:

Commence at the Northwest corner of Section 36, Township 3 South, Range 17 East, and thence run North 86 degrees 48 minutes 07 seconds East, along the North boundary of said Section 36 a distance of 1,675.73 feet to the Easterly right of way of Forest Service Road # 236 and the Point of Beginning; thence continue North 86 degrees 48 minutes 07 seconds East, still along the North boundary of said Section 36 a distance of 701.08 feet to the Northeast corner of the Northeast 1/4 of the Northwest 1/4 of said Section 36; thence North 86 degrees 50 minutes 08 seconds East, still along said North boundary of said Section 36 a distance of 1187.42 feet to the Northeast corner of the Northwest 1/4 of the Northeast 1/4 of said Section 36; thence South 1 degree 05 minutes 33 seconds West along the East line of the Northwest 1/4 of the Northeast 1/4 of said Section 36 a distance of 502.11 feet to the Northerly right of way of Seaboard Coastline Railroad; thence South 82 degrees 58 minutes 21 seconds West, along said Railroad right of way a distance of 1,847.50 feet to the Easterly right of way of Forest Service Road# 236; thence North 3 degrees 48 minutes 36 seconds West, along said Easterly right of way a distance of 624.90 feet to the Point of Beginning.

TOGETHER WITH:

Easement conveyed in Easement Deed recorded June 9, 2006 in Official Records Book 1086, Page 894, Public Records of Columbia County, Florida.

Inst:2006020361 Date:08/25/2006 Time:16:48
DC,P.DeWitt Cason,Columbia County B:1094 P:149

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By _____ Deputy Clerk
Date August 25 2006

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 36-3S-17-07463-002 **Building permit No.** 000024910

Use Classification OFFICE BLDG **Fire:** 23.90

Permit Holder HARLIE LYNCH **Waste:**

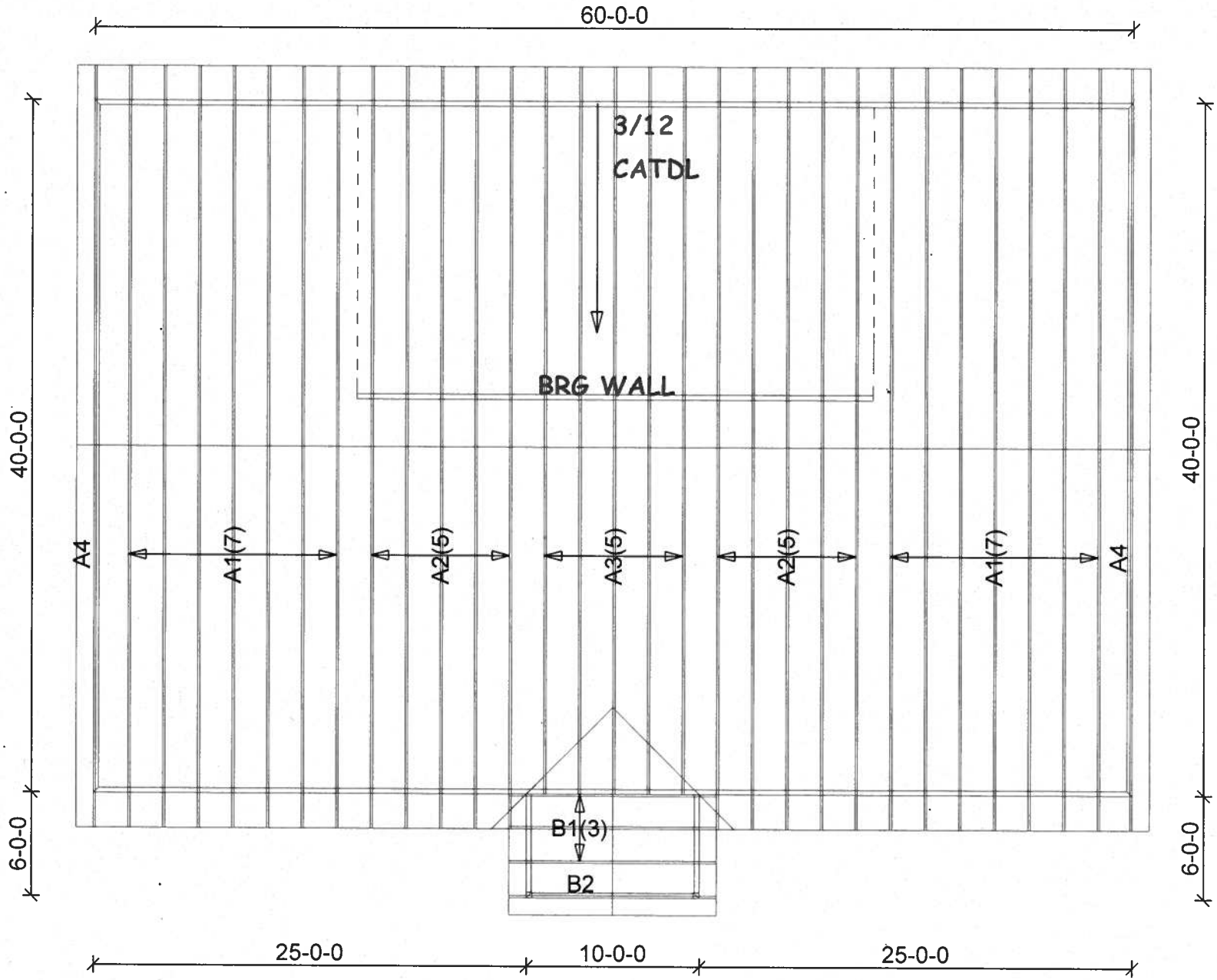
Owner of Building MIKE SHAW/MAYO FERTILIZER **Total:** 23.90

Location: 413 NE MCCLOSKEY AVE, LAKE CITY, FL

Date: 09/10/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



Mayo Truss Co. Inc.
845 East US 27
MAYO, FL 32066
(386)294-3988
(877)-558-6262

HAL LYNCH

MAYO FERTILIZER OFFICE

110 MPH ASCE WIND LOAD

Roof Loading
TC Live: 20.00 psf
TC Dead: 10.00 psf
BC Live: 0.00 psf
BC Dead: 10.00 psf
TC Stress Inc: 25.00
BC Stress Inc: 25.00
Spacing: 2- 0- 0 o.c.

Account: CONTRACTORS
Job: LYNCH-MAYOFERT
Designer: A. HIGHSMITH
Checker: M.MURRAY
Date: 07-25-06

Permit Number: _____ Lot Number: _____

Miscellaneous: _____ Address: _____

The information in this box is for administrative purposes only and is not part of the engineering review.

Truss Fabricator: Mayo Truss Company, Inc

Job Reference: LYNCH-MAYOFERT - MAYO FERTILIZER OFFICE

Standard Loading:

T.C. Live	20 psf
T.C Dead	10 psf
B.C Live	0 psf
B.C. Dead	10 psf
Total	40 psf

ROBBINS ENGINEERING, INC.

P.O. Box 280055
Tampa, FL 33682-0055
Phone: (813) 972-1135

Engineering Index Sheet

Index Page 1 of 1

ANSI/ASCE 7-02
Wind Speed - 110 MPH
Mean Roof Ht. - 15 FT
Exposure Catergory - B
Occupancy Factor - 1.00
MWFRS
Enclosed

Job Number	Date		Specification Quantity
T06071974	07/20/2006	FBC - 2004 Chapter 16 and 23	6

A Professional Engineer's seal affixed to this Index Sheet indicates the acceptance of Professional Engineering responsibilities for individual truss components fabricated in accordance with the listed and attached Truss Specification Sheets. Determination as to the suitability of these individual truss components for any structure is the responsibilty of the Building Designer, as defined in ANSI/TPI 1-2002, Section 2.2. Permanent files of the original Truss Specificstion Sheet are maintained by Robbins Engineering, Inc. Questions regarding this Index Sheet and/or the attached Specification Sheets may be directed to the truss fabricator listed above or Robbins Engineering, Inc. (Sofware - Online Plus)

Notes: Refer to individual truss design drawings for special loading conditions.

	Date	Mark		Date	Mark		Date	Mark		Date	Mark
1	07/20/06	A1	2	07/20/06	A2	3	07/20/06	A3	4	07/20/06	A4
5	07/20/06	B1	6	07/20/06	B2						

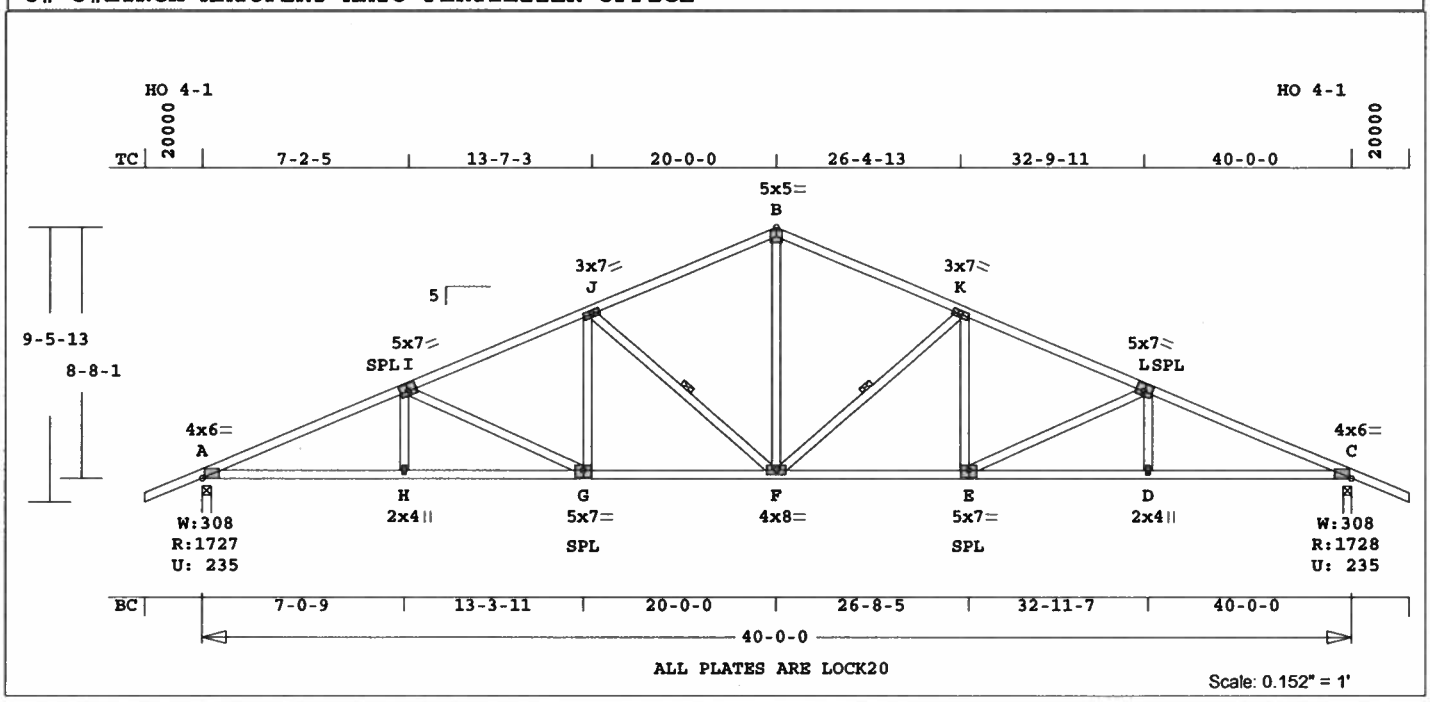
Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

PHILIP J. O'REGAN LICENSE No. 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

Date Sealed: 7/20/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
LYNCH-MAYOFERT	A1	14	TR	400000	5	2- 0- 0	2- 0- 0	T06071974

U# J#LYNCH-MAYOFERT MAYO FERTILIZER OFFICE



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 268.5 LBS

Online Plus -- Version 19.0.034
RUN DATE: 20-JUL-06

	CSI	-Size-	----Lumber----
TC	0.55	2x 4	SP-#2
BC	0.65	2x 4	SP-#2
WB	0.39	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	40- 0- 0
BC Cont.	0- 0- 0	40- 0- 0

WB 1 rows CLB on J -F
WB 1 rows CLB on F -K
Attach CLB with (2)-10d nails at each web.

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	1728	236	3- 8	2- 1
			Hz =	-164
C	1728	236	3- 8	2- 1
			Hz =	165

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -I	0.55	3382	C	0.18	0.37
I -J	0.42	2750	C	0.04	0.38
J -B	0.41	2076	C	0.03	0.38
B -K	0.41	2076	C	0.03	0.38
K -L	0.42	2750	C	0.04	0.38
L -C	0.55	3382	C	0.18	0.37

Bottom Chords					
A -H	0.65	3124	T	0.52	0.13
H -G	0.63	3124	T	0.52	0.11
G -F	0.55	2540	T	0.42	0.13
F -E	0.55	2540	T	0.42	0.13
E -D	0.63	3124	T	0.52	0.11
D -C	0.65	3124	T	0.52	0.13
Webs					
H -I	0.03	258	T		
I -G	0.39	643	C		
G -J	0.07	463	T		
J -F	0.20	829	C		1 Br
F -B	0.22	1215	T		
F -K	0.20	829	C		1 Br
E -K	0.07	463	T		
E -L	0.39	643	C		
D -L	0.03	258	T		

TL Defl -0.43" in G -F L/999
LL Defl -0.20" in G -F L/999
Shear // Grain in J -B 0.24

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	0.1	0.76
I	LOCK	5.0x 7.0	-0.2	0.5	0.78
J	LOCK	3.0x 7.0	Ctr	Ctr	0.44
B	LOCK	5.0x 5.0	Ctr	Ctr	0.73
K	LOCK	3.0x 7.0	Ctr	Ctr	0.44
L	LOCK	5.0x 7.0	0.2	0.5	0.78
C	LOCK	4.0x 6.0	Ctr	0.1	0.76
H	LOCK	2.0x 4.0	Ctr	Ctr	0.47
G	LOCK	5.0x 7.0	Ctr	-0.5	0.79
F	LOCK	4.0x 8.0	Ctr	Ctr	0.44
E	LOCK	5.0x 7.0	Ctr	-0.5	0.79
D	LOCK	2.0x 4.0	Ctr	Ctr	0.47

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

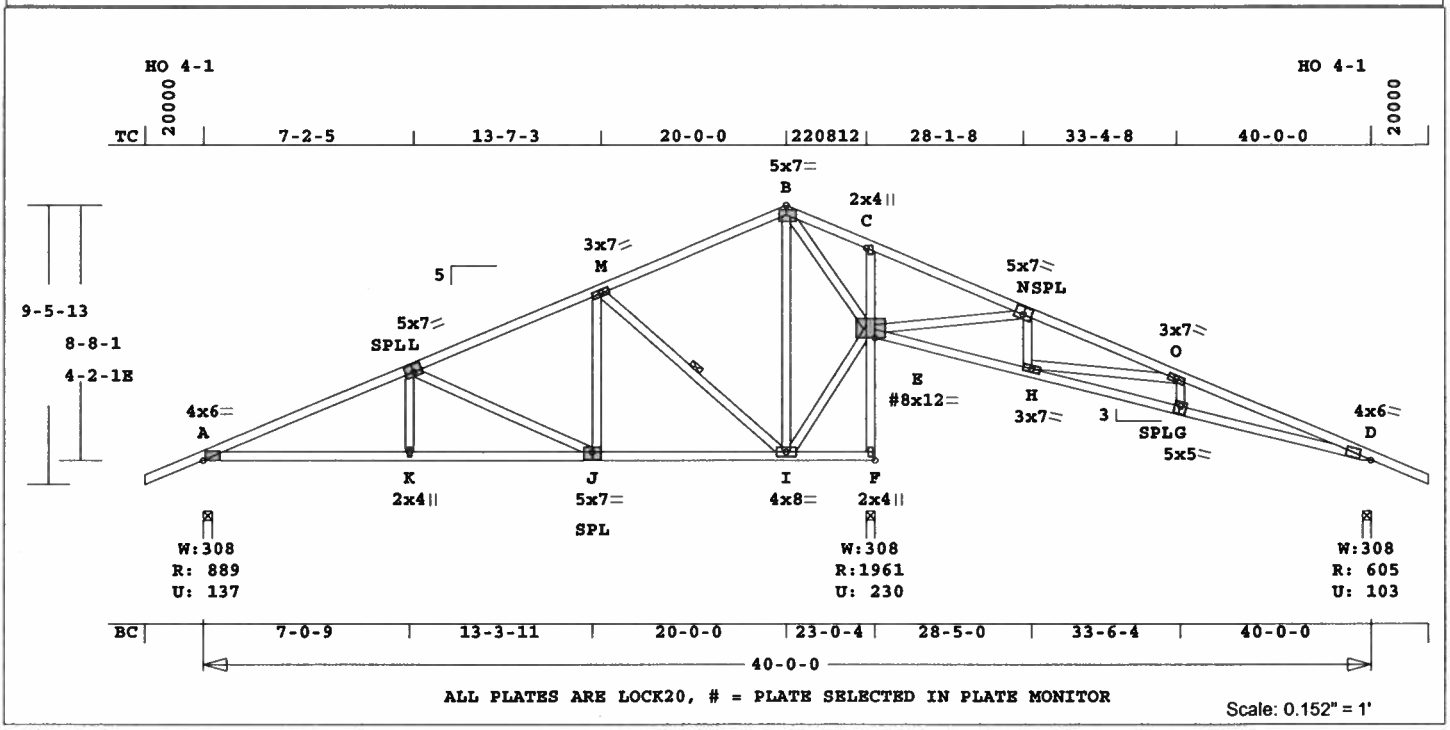
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 3382 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 7/20/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
LYNCH-MAYOFERT	A2	10	STU1	400000	5	2- 0- 0	2- 0- 0	T06071974

U# J#LYNCH-MAYOFERT MAYO FERTILIZER OFFICE



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 281.6 LBS

Online Plus -- Version 19.0.034
RUN DATE: 20-JUL-06

	CSI	-Size-	----Lumber----
TC	0.49	2x 4	SP-#2
BC	0.40	2x 4	SP-#2
CW	0.17	2x 4	SP-#2
WB	0.55	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	40- 0- 0
BC Cont.	0- 0- 0	40- 0- 0

WB 1 rows CLB on M -I
Attach CLB with (2)-10d nails at each web.

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	889	137	3- 8	1- 8
			Hz =	-164
F	1961	230	3- 8	2- 1
D	605	104	3- 8	1- 8
			Hz =	165

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -L	0.42	1297	C	0.01	0.41
L -M	0.41	610	C	0.00	0.41
M -B	0.39	129	T	0.00	0.39
B -C	0.47	1224	T	0.20	0.27
C -N	0.49	1249	T	0.22	0.27
N -O	0.25	111	C	0.00	0.25
O -D	0.29	1385	C	0.02	0.27
Bottom Chords					
A -K	0.39	1206	T	0.20	0.19
K -J	0.37	1206	T	0.20	0.17
J -I	0.28	563	T	0.06	0.22
I -F	0.16	14	C	0.00	0.16
E -H	0.16	169	T	0.01	0.15
H -G	0.29	1326	T	0.22	0.07
G -D	0.40	1331	T	0.22	0.18
Chord-Webs					
F -E	0.17	1948	C	0.17	0.00
E -C	0.05	315	C	0.00	0.05
Webs					
K -L	0.04	276	T		
L -J	0.43	708	C		
J -M	0.07	488	T		
M -I	0.21	851	C		1 Br
I -B	0.19	779	T		
I -E	0.04	193	T		
B -E	0.55	1839	C		
E -N	0.46	1265	C		
H -N	0.06	413	T		
H -O	0.41	1185	C		
G -O	0.03	226	T		

TL Defl -0.16" in G -D L/999
LL Defl -0.07" in G -D L/999

Hz Disp	LL	DL	TL
Jt F	0.01"	0.01"	0.03"

Shear // Grain in A -L 0.26

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	0.1	0.76
L	LOCK	5.0x 7.0	-0.2	0.5	0.78
M	LOCK	3.0x 7.0	Ctr	Ctr	0.44
B	LOCK	5.0x 7.0	0.5	-0.4	0.85
C	LOCK	2.0x 4.0	Ctr	Ctr	0.25
N	LOCK	5.0x 7.0	0.2	0.5	0.78
O	LOCK	3.0x 7.0	Ctr	Ctr	0.50
D	LOCK	4.0x 6.0	Ctr	Ctr	0.98
K	LOCK	2.0x 4.0	Ctr	Ctr	0.47
J	LOCK	5.0x 7.0	Ctr	-0.5	0.79
I	LOCK	4.0x 8.0	Ctr	Ctr	0.46
F	LOCK	2.0x 4.0	Ctr	Ctr	0.77
E#	LOCK	8.0x12.0	Ctr	2.1	0.68
H	LOCK	3.0x 7.0	Ctr	Ctr	0.85
G	LOCK	5.0x 5.0	-0.1	-0.5	0.79

= Plate Monitor used

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

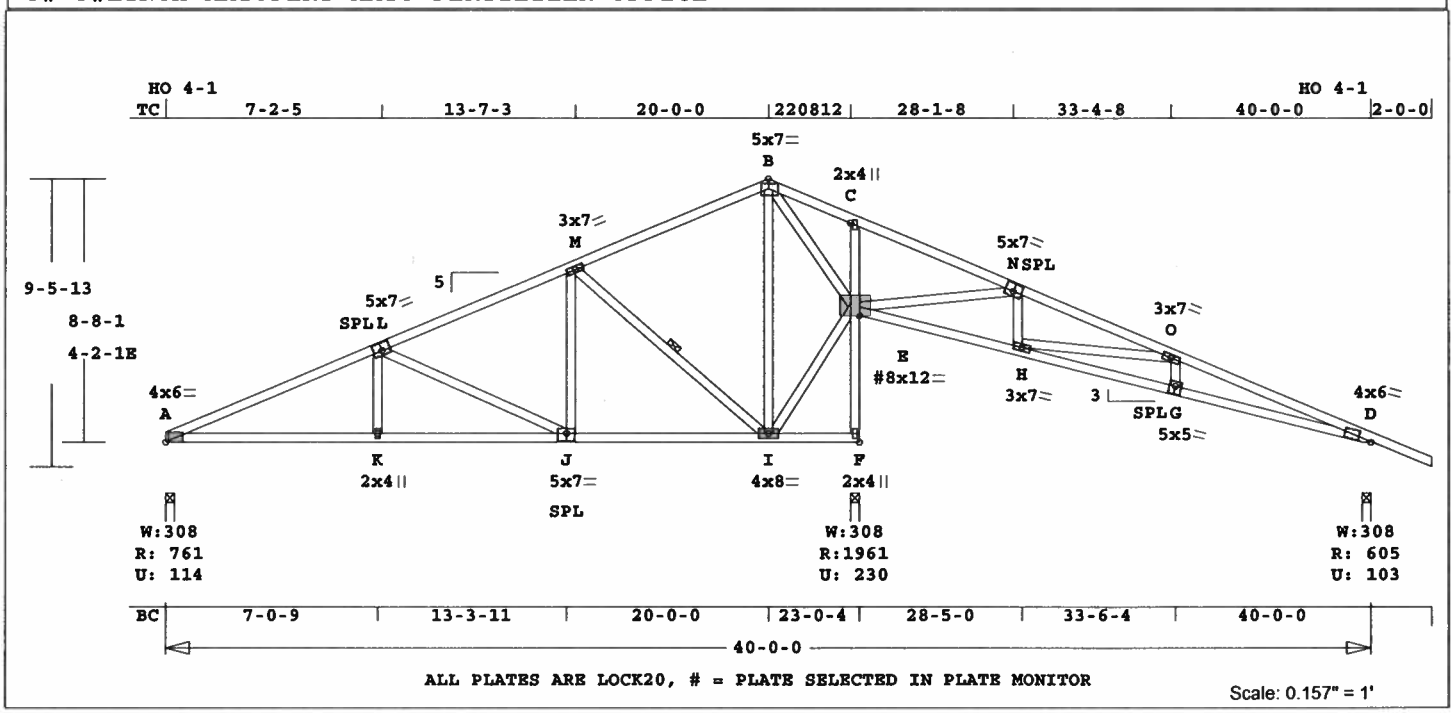
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1948 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 7/20/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
LYNCH-MAYOFERT	A3	5	STU1	400000	5	0	2- 0- 0	T06071974

U# J#LYNCH-MAYOFERT MAYO FERTILIZER OFFICE



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 277.5 LBS

Online Plus -- Version 19.0.034
RUN DATE: 20-JUL-06

	CSI	-Size-	----Lumber----
TC	0.49	2x 4	SP-#2
BC	0.40	2x 4	SP-#2
CW	0.17	2x 4	SP-#2
WB	0.55	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	40- 0- 0
BC Cont.	0- 0- 0	40- 0- 0

WB 1 rows CLB on M -I
Attach CLB with (2)-10d nails at each web.

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	761	115	3- 8	1- 8
			Hz =	-164
F	1961	230	3- 8	2- 1
D	605	104	3- 8	1- 8
			Hz =	165

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -L	0.42	1297	C	0.01	0.41
L -M	0.41	610	C	0.00	0.41
M -B	0.39	129	T	0.00	0.39
B -C	0.47	1224	T	0.20	0.27
C -N	0.49	1249	T	0.22	0.27
N -O	0.25	111	C	0.00	0.25
O -D	0.29	1385	C	0.02	0.27
Bottom Chords					
A -K	0.39	1206	T	0.20	0.19
K -J	0.37	1206	T	0.20	0.17
J -I	0.28	563	T	0.06	0.22
I -F	0.16	14	C	0.00	0.16
E -H	0.16	169	T	0.01	0.15
H -G	0.29	1326	T	0.22	0.07
G -D	0.40	1331	T	0.22	0.18
Chord-Webs					
F -E	0.17	1948	C	0.17	0.00
E -C	0.05	315	C	0.00	0.05
Webs					
K -L	0.04	276	T		
L -J	0.43	708	C		
J -M	0.07	488	T		
M -I	0.21	851	C		1 Br
I -B	0.19	779	T		
I -E	0.04	193	T		
B -E	0.55	1839	C		
E -N	0.46	1265	C		
H -N	0.06	413	T		
H -O	0.41	1185	C		
G -O	0.03	226	T		

TL Defl -0.16" in G -D L/999
LL Defl -0.07" in G -D L/999

Hz Disp	LL	DL	TL
Jt F	0.01"	0.01"	0.03"

Shear // Grain in A -L 0.26

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	0.1	0.76
L	LOCK	5.0x 7.0	-0.2	0.5	0.78
M	LOCK	3.0x 7.0	Ctr	Ctr	0.44
B	LOCK	5.0x 7.0	0.5	-0.4	0.85
C	LOCK	2.0x 4.0	Ctr	Ctr	0.25
N	LOCK	5.0x 7.0	0.2	0.5	0.78
O	LOCK	3.0x 7.0	Ctr	Ctr	0.50
D	LOCK	4.0x 6.0	Ctr	Ctr	0.98
K	LOCK	2.0x 4.0	Ctr	Ctr	0.47
J	LOCK	5.0x 7.0	Ctr	-0.5	0.79
I	LOCK	4.0x 8.0	Ctr	Ctr	0.46
F	LOCK	2.0x 4.0	Ctr	Ctr	0.77
E#	LOCK	8.0x12.0	Ctr	2.2	0.68
H	LOCK	3.0x 7.0	Ctr	Ctr	0.85
G	LOCK	5.0x 5.0	-0.1	-0.5	0.79

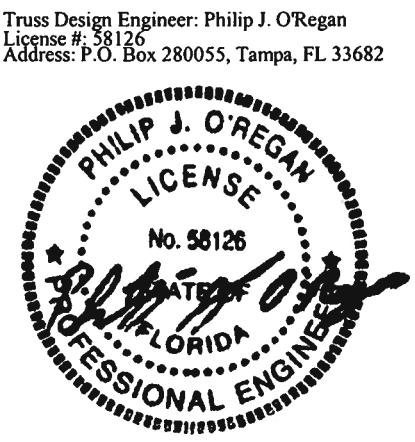
= Plate Monitor used

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1948 Lbs
Quality Control Factor 1.25

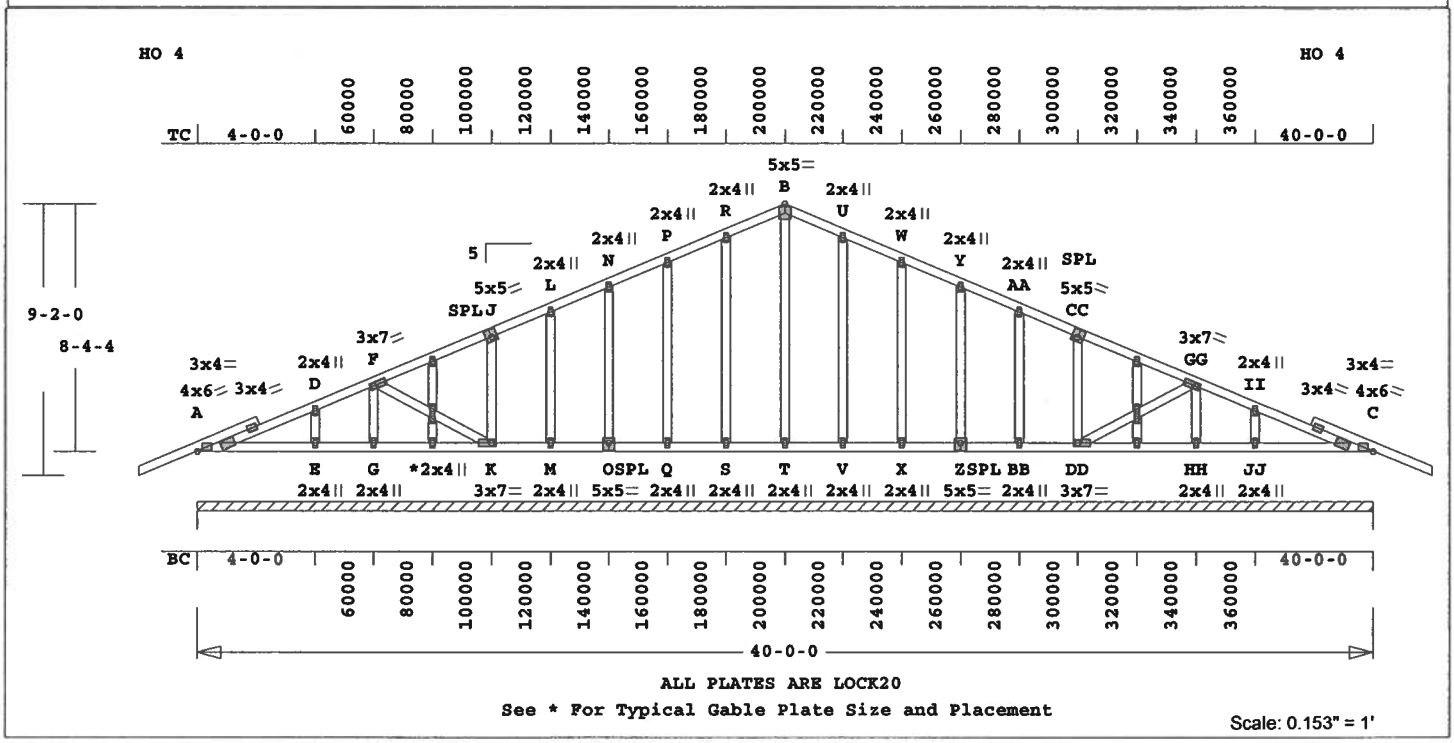
Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 7/20/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
LYNCH-MAYOFERT	A4	2	SP	400000	5	0	0	T06071974

U# J#LYNCH-MAYOFERT MAYO FERTILIZER OFFICE



ALL PLATES ARE LOCK20

See * For Typical Gable Plate Size and Placement

Scale: 0.153" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 324.1 LBS

Online Plus -- Version 19.0.034
RUN DATE: 20-JUL-06

	CSI	Size	Lumber
TC	0.11	2x 4	SP-#2
BC	0.06	2x 4	SP-#2
WB	0.03	2x 4	SP-#2
GW	0.08	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	40- 0- 0
BC Cont.		0- 0- 0	40- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont. Brg	0- 0- 0 to 40- 0- 0			
	3200	426 Hz =	159	

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -D	0.07	156 C	0.00 0.07
D -F	0.11	163 C	0.00 0.11
F -J	0.11	64 C	0.00 0.11
J -L	0.11	56 C	0.00 0.11
L -N	0.03	44 C	0.00 0.03
N -P	0.03	50 T	0.00 0.03
P -R	0.03	78 T	0.00 0.03
R -B	0.03	105 T	0.00 0.03
B -U	0.03	105 T	0.00 0.03
U -W	0.03	78 T	0.00 0.03
W -Y	0.03	50 T	0.00 0.03
Y -AA	0.03	44 C	0.00 0.03
AA-CC	0.11	56 C	0.00 0.11
CC-GG	0.11	64 C	0.00 0.11
GG-II	0.11	163 C	0.00 0.11
II-C	0.07	156 C	0.00 0.07
Bottom Chords			
A -E	0.06	5 T	0.00 0.06
E -G	0.06	0 T	0.00 0.06
G -K	0.06	0 T	0.00 0.06
K -M	0.06	0 T	0.00 0.06
M -O	0.02	0 T	0.00 0.02
O -Q	0.02	0 T	0.00 0.02
Q -S	0.02	0 T	0.00 0.02
S -T	0.02	0 T	0.00 0.02
T -V	0.02	0 T	0.00 0.02
V -X	0.02	0 T	0.00 0.02
X -Z	0.02	0 T	0.00 0.02
Z -BB	0.02	0 T	0.00 0.02
BB-DD	0.06	0 T	0.00 0.06
DD-HH	0.06	0 T	0.00 0.06
HH-JJ	0.06	0 T	0.00 0.06
JJ-C	0.06	5 T	0.00 0.06
Webs			
F -K	0.03	128 C	
DD-GG	0.03	128 C	
Gable Webs			
E -D	0.01	165 C	
G -F	0.00	81 C	
K -J	0.04	206 C	
M -L	0.02	90 C	
O -N	0.04	124 C	
Q -P	0.06	119 C	
S -R	0.08	123 C	
T -B	0.06	77 C	
V -U	0.08	123 C	
X -W	0.06	119 C	
Z -Y	0.04	124 C	
BB-AA	0.02	90 C	
DD-CC	0.04	206 C	
HH-GG	0.00	81 C	
JJ-II	0.01	165 C	

TL Defl -0.01" in DD-HH L/999
LL Defl 0.00" in DD-HH L/999
Shear // Grain in F -J 0.14

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr-0.3		0.80
D	LOCK	2.0x 4.0	Ctr	Ctr	0.47
F	LOCK	3.0x 7.0	Ctr	Ctr	0.41
J	LOCK	5.0x 5.0	-0.2	0.5	0.78
L	LOCK	2.0x 4.0	Ctr	Ctr	0.47
N	LOCK	2.0x 4.0	Ctr	Ctr	0.47
P	LOCK	2.0x 4.0	Ctr	Ctr	0.47
R	LOCK	2.0x 4.0	Ctr	Ctr	0.47
B	LOCK	5.0x 5.0	Ctr	Ctr	0.73
U	LOCK	2.0x 4.0	Ctr	Ctr	0.47
W	LOCK	2.0x 4.0	Ctr	Ctr	0.47
Y	LOCK	2.0x 4.0	Ctr	Ctr	0.47
AA	LOCK	2.0x 4.0	Ctr	Ctr	0.47
CC	LOCK	5.0x 5.0	0.2	0.5	0.78
GG	LOCK	3.0x 7.0	Ctr	Ctr	0.41
II	LOCK	2.0x 4.0	Ctr	Ctr	0.47
C	LOCK	4.0x 6.0	Ctr-0.3		0.80
E	LOCK	2.0x 4.0	Ctr	Ctr	0.47
G	LOCK	2.0x 4.0	Ctr	Ctr	0.47
K	LOCK	3.0x 7.0	Ctr	Ctr	0.44
M	LOCK	2.0x 4.0	Ctr	Ctr	0.47
O	LOCK	5.0x 5.0	Ctr-0.5		0.79
Q	LOCK	2.0x 4.0	Ctr	Ctr	0.47
S	LOCK	2.0x 4.0	Ctr	Ctr	0.47
T	LOCK	2.0x 4.0	Ctr	Ctr	0.47
V	LOCK	2.0x 4.0	Ctr	Ctr	0.47
X	LOCK	2.0x 4.0	Ctr	Ctr	0.47
Z	LOCK	5.0x 5.0	Ctr-0.5		0.79
BB	LOCK	2.0x 4.0	Ctr	Ctr	0.47
DD	LOCK	3.0x 7.0	Ctr	Ctr	0.44
HH	LOCK	2.0x 4.0	Ctr	Ctr	0.47
JJ	LOCK	2.0x 4.0	Ctr	Ctr	0.47

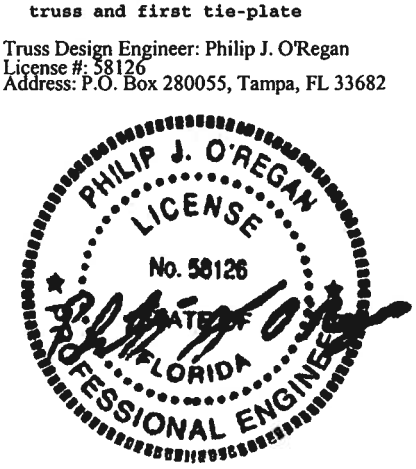
4 Gable studs to be attached with 2.0x4.0 plates each end.

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 7/20/2006

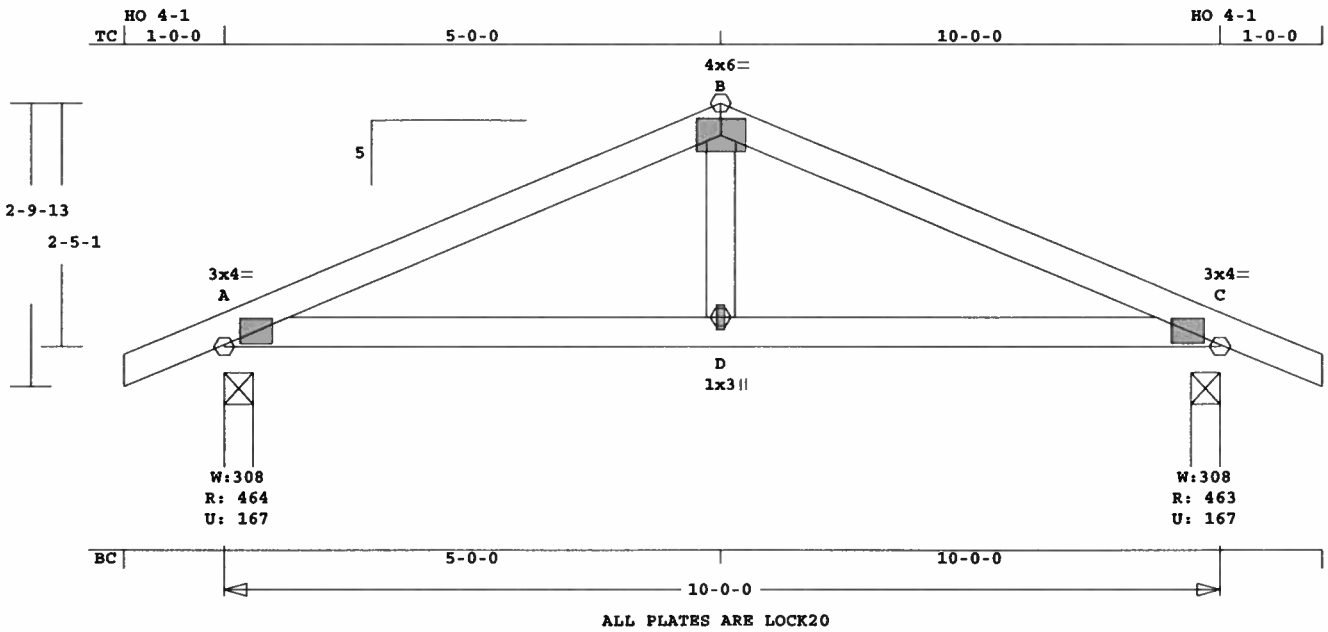
Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
LYNCH-MAYOFERT	A4	2	SP	400000	5	0	0	T06071974

U# J#LYNCH-MAYOFERT MAYO FERTILIZER OFFICE

to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Prevent truss rotation at all bearing locations.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 206 Lbs
Quality Control Factor 1.25

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
LYNCH-MAYOFERT	B1	3	TR	100000	5	1- 0- 0	1- 0- 0	T06071974

U# J#LYNCH-MAYOFERT MAYO FERTILIZER OFFICE



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 47.3 LBS

Online Plus -- Version 19.0.034
RUN DATE: 20-JUL-06

	CSI	-Size-	----Lumber----
TC	0.16	2x 4	SP-#2
BC	0.20	2x 4	SP-#2
WB	0.03	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	10- 0- 0
BC	Cont.	0- 0- 0	10- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 4 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	464	167	3- 8	1- 8
C	464	167	3- 8	1- 8

Membr	CSI	P Lbs	Axl-CSI-Bnd	
Top Chords				
A -B	0.16	556 C	0.00	0.16
B -C	0.16	556 C	0.00	0.16
Bottom Chords				
A -D	0.20	516 T	0.08	0.12
D -C	0.20	516 T	0.08	0.12

Webs

D -B	0.03	216 T	

TL Defl -0.03" in D -C L/999
LL Defl -0.01" in D -C L/999
Shear // Grain in A -B 0.16

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.62
B	LOCK	4.0x 6.0	Ctr	Ctr	0.45
C	LOCK	3.0x 4.0	Ctr	Ctr	0.62
D	LOCK	1.0x 3.0	Ctr	Ctr	0.75

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02

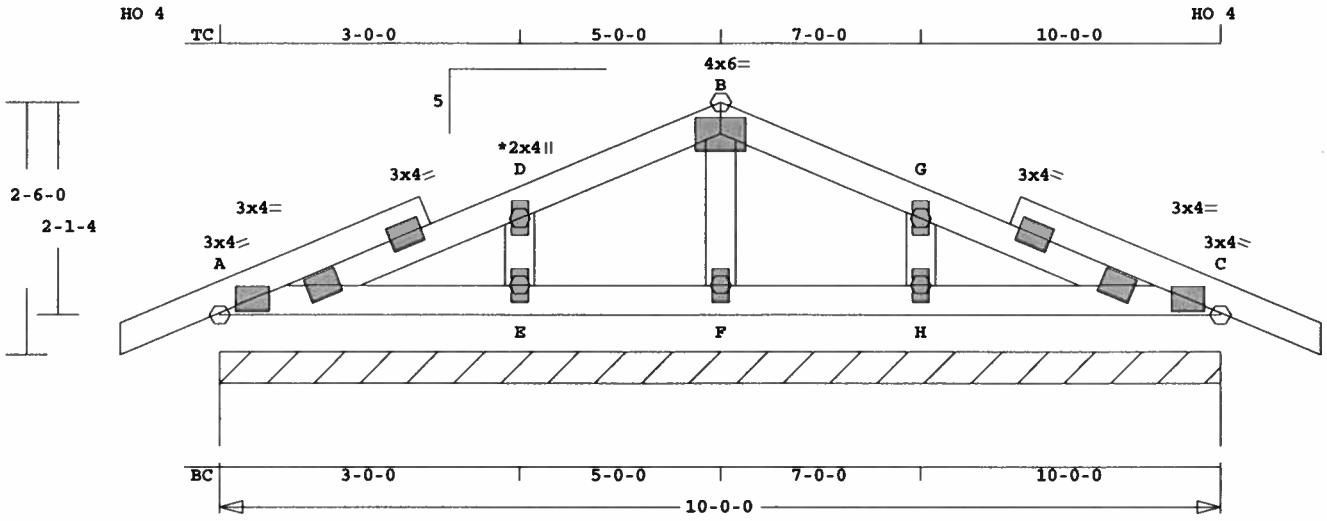
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
0- 0- 0 10- 0- 0
Max comp. force 556 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 7/20/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
LYNCH-MAYOFERT	B2	1	SP	100000	5	0	0	T06071974

U# J#LYNCH-MAYOFERT MAYO FERTILIZER OFFICE



ALL PLATES ARE LOCK20

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.530" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 55.0 LBS

Online Plus -- Version 19.0.034
RUN DATE: 20-JUL-06

	CSI	-Size-	----Lumber----
TC	0.04	2x 4	SP-#2
BC	0.03	2x 4	SP-#2
GW	0.01	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.		0- 0- 0	10- 0- 0
BC Cont.		0- 0- 0	10- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 4 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont. Brg	800	312	0- 0- 0 to Hz =	10- 0- 0 0

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -D	0.04	95	C	0.00	0.04
D -B	0.04	109	C	0.00	0.04
B -G	0.04	109	C	0.00	0.04
G -C	0.04	95	C	0.00	0.04
Bottom Chords					
A -E	0.03	3	T	0.00	0.03
E -F	0.02	0	T	0.00	0.02
F -H	0.02	0	T	0.00	0.02
H -C	0.03	3	T	0.00	0.03
Gable Webs					
E -D	0.01	153	C		
F -B	0.00	26	C		
H -G	0.01	153	C		

TL Defl 0.00" in H -C L/999
LL Defl 0.00" in H -C L/999
Shear // Grain in D -D 0.08

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.62
D	LOCK	2.0x 4.0	Ctr	Ctr	0.00
B	LOCK	4.0x 6.0	Ctr	Ctr	0.45
G	LOCK	2.0x 4.0	Ctr	Ctr	0.00
C	LOCK	3.0x 4.0	Ctr	Ctr	0.62
E	LOCK	2.0x 4.0	Ctr	Ctr	0.00
F	LOCK	2.0x 4.0	Ctr	Ctr	0.00
H	LOCK	2.0x 4.0	Ctr	Ctr	0.00

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02

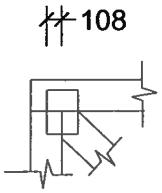
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
0- 0- 0 10- 0- 0
Max comp. force 153 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Philip J. O'Regan
License #: 58126
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 7/20/2006

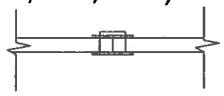
ROBBINS ENG. GENERAL NOTES & SYMBOLS

PLATE LOCATION



Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

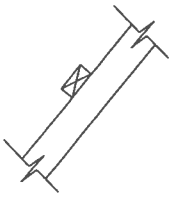
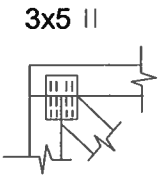


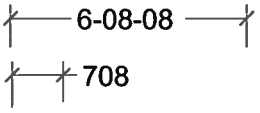
PLATE SIZE AND ORIENTATION

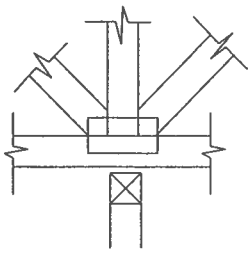


The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).





W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.

ROBBINS connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on truss design drawings refer to common wire nails, except as noted.
The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA)," National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS FABRICATOR.

Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, Fl 33610-4115
Tel: 813-972-1135 Fax: 813-971-6117

www.robbinseng.com

TEMPORARY

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 36-3S-17-07463-002

Building permit No. 24909

Use Classification STORAGE BUILDING

Fire: -0-

Permit Holder HARLIE LYNCH

Waste: -0-

Owner of Building MAYO FERTILIZER

Total: -0-

Location: 413 NE MCCLOSKEY AVENUE

**MUST PAY ONCE PERMANENT C.O. IS ISSUE

Date: 12.20.2006

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)