Columbia County Building Permit Application

For Office Use Only Application # 0710-54 Date Received 10/26/07 By G Permit # 26395

Application Approved by - Zoning Official cfs Date 11/7/07 Plans Examiner OK JTH Date 11-5-07

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments 1pm

✓ NOC ✓ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Perm

Name Authorized Person Signing Permit Lamar DuPree Fax 386-754-5431 Phone 386-754-5678

Address P.O. Box 2861 Lake City, Fla 32056 2902 West US Hwy 90 Lake City, Fla 320

Owners Name Columbia County Phone 719-2028

911 Address 2318 SW Pinemount Rd. Lake City, Fla 32024

Contractors Name Joseph L. DuPree Jr. Phone 386-754-5678

Address P.O. Box 2861 Lake City, Fla 32056 2902 West US Hwy 90 Lake City Fla 32

Fee Simple Owner Name & Address Columbia County, P.O. Box 1529 Lake City, Fla 32056

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Freeman Design Group 161 NW Madison St Suite 102 Lake City, Fla 320

Mortgage Lenders Name & Address N/A

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

Property ID Number 05-4S-16-02776-001 Estimated Cost of Construction

Subdivision Name N/A Lot ____ Block ____ Unit ____ Phase ____

Driving Directions US 90 west to Pinemount Road (SR 252) Turn left at the traffic light. Go west on Pinemount Road to Burley Rd (Caution light) fire station on right.

Type of Construction Block - Addition to fire department Number of Existing Dwellings on Property ____

Total Acreage 1.5 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dri

Actual Distance of Structure from Property Lines - Front 87'.0" Side 50'-0 Side 68'-0" Rear 33-0"

Total Building Height 20'-8" Number of Stories 1 Heated Floor Area 1600 Roof Pitch 4/12

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.

Owner Builder or Authorized Person by Notarized Letter

Joseph L. DuPree
Contractor Signature

Contractors License Number CG-C060631

Competency Card Number

NOTARY STAMP/SEAL

NOTARY PUBLIC-STATE OF FLORIDA
Renee J. Morgan
Commission # DD717617
Expires: SEP. 23, 2011
BONDED THRU ATLANTIC BONDING CO., INC.

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this _____ day of _____ 20____.

Personally known____ or Produced Identification____

Renee J Morgan
Notary Signature

(Revised Sept. 200

SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

NOTICED GENERAL PERMIT

PERMITTEE:
COLUMBIA COUNTY FIRE DEPARTMENT
PO BOX 1529
LAKE CITY, FL 32056

PERMIT NUMBER: ERP91-0112M
DATE ISSUED: 08/10/2007
DATE EXPIRES: 08/10/2010
COUNTY: COLUMBIA
TRS: S5/T4S/R16E

PROJECT: WEST COLUMBIA VOLUNTEER FIRE DEPT STATION #43 MODIFICATION

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

A B ATKINSON, III
COLUMBIA COUNTY FIRE DEPARTMENT
PO BOX 1529
LAKE CITY, FL 32056

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource noticed general permit is in effect for the permitted activity description below:

Construction and operation of an additional 4,310 square feet of impervious surface on a total project area of 1.5 acres in a manner consistent with the application package submitted by A. B. Atkinson, III on July 25, 2007.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to enclosed notice of rights.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A noticed general permit authorizes the construction, operation, maintenance, alteration,

```
@ CAM112M01    S  CamaUSA Appraisal System                          Columbia County
10/26/2007 15:19  Legal Description Maintenance              23400  Land   001
Year T Property                            Sel                      AG     000
2008 R 05-4S-16-02776-001                  ...               28880  Bldg   001  *
       ---                                                    4248  Xfea   001
       COLUMBIA COUNTY                                       56528  TOTAL      B

     COMM NW COR OF SW1/4 OF SE1/4,  RUN E 393.46 FT FOR POB, CONT
     E 500 FT TO N R/W SR-242, SW    ALONG R/W 564.31 FT, N 261.62
     FT TO POB.  ORB 604-569,

                                               Mnt  2/17/1997 TERR
F1=Task  F3=Exit  F4=Prompt  F10=GoTo  PgUp/PgDn  F24=More
```

COLUMBIA COUNTY BUILDING DEPARTMENT

COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 WITH AMENDMENTS

ALL REQUIREMENTS LISTED ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INCLUDE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 WITH AMENDMENTS BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SIGNATURE AND SEAL OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE FOLLOWING BASIC WIND SPEED AS PER SECTION 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ---------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE ---------- 110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: **Two (2) complete sets of plans containing a floor plan, site plan, foundation plan, floor/roof framing plan or truss layout, wall sections and all exterior elevations with the following criteria and documents:**

Applicant	Plans Examiner	
☑	☐	**All drawings must be clear, concise and drawn to scale ("Optional" details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.**
☑	☐	**Designers name and signature on document (FBC 104.2.1) If licensed architect or engineer, official seal shall be affixed.**
☑	☐	**Two (2) Copies of Approved Site Plan**
☑	☐	**Minimum Type Construction (FBC Table 500)**
☑	☐	**Wind Load Engineering Summary, calculations and any details required:** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC 1. Basic wind speed (MPH) 2. Wind importance factor (I) and building category 3. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated 4. The applicable internal pressure coefficient 5. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☐	☐	**Fire Resistant Construction Requirements shall include:**
☐	☐	a) Fire resistant separations (listed system)
☑	☐	b) Fire resistant protection for type of construction
☑	☐	c) Protection of openings and penetrations of rated walls (listed systems)
☐	☐	d) Fire blocking and draft-stopping
☐	☐	e) Calculated fire resistance

Fire Suppression Systems shall include: (To be reviewed by Fire Department)

- ☐ ☐ a) Fire sprinklers
- ☐ ☐ b) Fire alarm system (early warning) with name of licensed installer. If not shown on plans or not known at time of permitting, a separate permit shall be required by the licensed installer
- ☐ ☐ c) Smoke evacuation system schematic
- ☐ ☐ d) Stand-pipes
  - Pre-engineered system
  - Riser diagram

Life Safety Systems shall include: (To be reviewed by Fire Department)

- ☑ ☐ a) Occupancy load and egress capacity
- ☐ ☐ b) Early warning
- ☐ ☐ c) Smoke control
- ☐ ☐ d) Stair pressurization
- ☐ ☐ e) Systems schematic

Occupancy Load/Egress Requirements shall include:

- ☑ ☐ a) Occupancy load (gross and net)
- ☑ ☐ b) Means of egress
  - exit access, exit and exit discharge
- ☐ ☐ c) Stair construction/geometry and protection
- ☑ ☐ d) Doors
- ☑ ☐ e) Emergency lighting and exit signs
- ☐ ☐ f) Specific occupancy requirements
  1. Construction requirements
  2. Horizontal exits/exit passageways

Structural Requirements shall include:

- ☐ ☐ a) Soil conditions/analysis
- ☐ ☐ b) Show type of termite treatment (termicide or alternative method)
- ☑ ☐ c) Design loads
- ☑ ☐ d) Wind requirements
- ☐ ☐ e) Building envelope
- ☐ ☐ f) Structural calculations
- ☑ ☐ g) Foundations
- ☑ ☐ h) Wall systems
- ☐ ☐ i) Floor systems
- ☑ ☐ j) Roof systems
- ☐ ☐ k) Threshold inspection plan (if applicable)
- ☐ ☐ l) Stair systems

Materials shall include:

- ☑ ☐ a) Wood
- ☐ ☐ b) Steel
- ☐ ☐ c) Aluminum
- ☑ ☐ d) Concrete
- ☐ ☐ e) Plastic
- ☐ ☐ f) Glass (mfg. Listing for wind zone including details for installation and attachments
- ☑ ☐ g) Masonry
- ☑ ☐ h) Gypsum board and plaster
- ☑ ☐ i) Insulating (mechanical)
- ☑ ☐ j) Roofing (mfg. Listed system for wind zone with installation and attachments)
- ☑ ☐ k) Insulation

Accessibility Requirements shall include:

- ☐ ☐ a) Site requirements
- ☐ ☐ b) Accessible route
- ☐ ☐ c) Vertical accessibility
- ☐ ☐ d) Toilet and bathing facilities
- ☐ ☐ e) Drinking fountains
- ☐ ☐ f) Equipment
- ☐ ☐ g) Special occupancy requirements
- ☐ ☐ h) Fair housing requirements

Interior Requirements shall include:

- ☐ ☐ a) Interior finishes (flame spread/smoke develop)
- ☑ ☐ b) Light and ventilation
- ☐ ☐ c) Sanitation

Special Systems shall include:

- ☐ ☐ a) Elevators
- ☐ ☐ b) Escalators
- ☐ ☐ c) Lifts

Swimming Pools – Commercial – Plans shall be signed and sealed by a Professional Engineer registered in the State of Florida and approved by the Department of Business and Professional Regulation/Health Department indicating compliance with the Florida Administrative Code, Chapter 64E-9 And Section 424 of the Florida Building Code

Electrical:

- ☑ ☐ a) Electrical wiring, services, feeders and branch circuits, over-current protection, grounding, wiring methods and materials, GFCIs
- ☐ ☐ b) Equipment
- ☐ ☐ c) Special Occupancies
- ☐ ☐ d) Emergency Systems
- ☐ ☐ e) Communication Systems
- ☐ ☐ f) Low Voltage
- ☐ ☐ g) Load calculations
- ☐ ☐ h) Riser diagram

Plumbing:

- ☐ ☐ a) Minimum plumbing facilities
- ☐ ☐ b) Fixture requirements
- ☐ ☐ c) Water supply piping
- ☐ ☐ d) Sanitary drainage
- ☐ ☐ e) Water heaters
- ☐ ☐ f) Vents
- ☐ ☐ g) Roof drainage
- ☐ ☐ h) Back flow prevention
- ☐ ☐ i) Irrigation
- ☑ ☐ j) Location of water supply
- ☐ ☐ k) Grease traps
- ☐ ☐ l) Environmental requirements
- ☐ ☐ m) Plumbing riser

Mechanical:

- ☐ ☐ a) Energy calculation (signed and sealed by Architect or Engineer, registered in the State of Florida)
- ☐ ☐ b) Exhaust systems (clothes dryer exhaust, kitchen equipment exhaust, Specialty equipment exhaust)
- ☐ ☐ c) Equipment
- ☐ ☐ d) Equipment location
- ☐ ☐ e) Make-up air
- ☐ ☐ f) Roof mounted equipment
- ☐ ☐ g) Duct systems
- ☐ ☐ h) Ventilation
- ☐ ☐ i) Combustion air
- ☐ ☐ j) Chimneys, fireplaces and vents
- ☐ ☐ k) Appliances
- ☐ ☐ l) Boilers
- ☐ ☐ m) Refrigeration
- ☐ ☐ n) Bathroom ventilation
- ☐ ☐ o) Laboratory

Gas:

- ☐ ☐ a) Gas piping
- ☐ ☐ b) Venting
- ☐ ☐ c) Combustion air
- ☐ ☐ d) Chimney's and vents
- ☐ ☐ e) Appliances
- ☐ ☐ f) Type of gas
- ☐ ☐ g) Fireplaces
- ☐ ☐ h) LP tank locations
- ☐ ☐ i) Riser diagram/shut offs

☐ ☐ **Disclosure Statement for Owner Builders**

☑ ☐ ***Notice of Commencement Required Before Any Inspections will be Done**

☐ ☐ **Private Potable Water:**

a) Size of pump motor
b) Size of pressure tank
c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS:

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all construction projects; If you were required to have a Site and Development Plan Approval, list SDP number.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser is required. A copy of property deed is also requested. (386) 758-1084

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic tank approval or sewer tap is required

4. **City Approval:** If the project is located within the city limits of the Town of Fort White prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) **has been** established shall meet the requirements of section 8.8 of the Columbia County Land Development Regulations. Any project that is located within a flood zone where the base flood elevation (100 year flood) **has not been** established shall meet the requirements of section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
   A development permit will also be required. **The development permit cost is $50.00**

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit must be made **($25.00)**. Culvert installation for commercial, industrial and other uses shall **conform to the approved site plan or to the specifications of a registered engineer. Joint use culverts will comply with Florida Department of Transportation specifications**. If the project is to be located on a F.D.O.T. maintained road, then an F.D.O.T. access permit is required.

7. **Suwannee River Water Management District Approval:** All commercial projects must have an SRWMD permit issued or an exemption letter, before a building will be issued.

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS – PLEASE DO NOT ASK

Commercial Jobs - $5.00 Per thousand dollars of cost of construction.

Plus - 75.00 Zoning fee.

The Florida Department of Community Affairs
Building Code Information System

SITE NAVIGATION

Home

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Florida Building Code

Manufact. Buildings

Prototype Building

Product Approval

Training

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Florida Building Commission

PRODUCT APPROVAL

Product Search

Overview | Product Search | Organization Search | Product Application

User: Public User - Not Associated with Organization -

Need Help ?

Search Product Approvals to the 2001 Florida Building Code

Product Approval Applications to the 2004 Florida Building Code

Product Manufacturer: Windsor Republic Door, Inc.

Category: (ALL)

Subcategory:

Application/Seq #: (### or ###.#)

Application Status: (ALL)

Evaluation Method: (ALL)

Order by: (•) Manufacturer ( ) Category ( ) Subcategory ( ) App / Seq # ( ) Status ( ) Evaluation Method

To edit an application that is NOT YET APPROVED, log in, search for the Application/Seq # and click on the link under "Category".

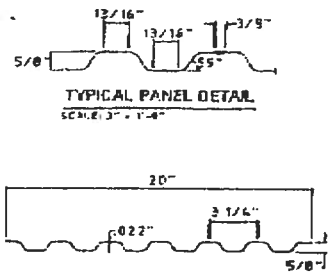
The products approved to the 2001 Florida Building Code are applicable to the 2004 Florida Building Code provided the standard, the year edition of the reference standard, and the code requirements for the product are the same in both codes.

New Product | Search

Page: Go Page 1 / 1

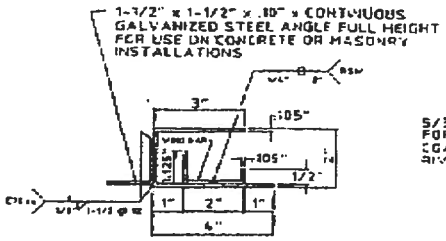
App/Seq #	Manufacturer	Category	Subcategory	Validation Entity/Validator	Status
FL3101-R1 History	Windsor Republic Door, Inc.	Exterior Doors	Swinging		Approved
FL4304	Windsor Republic Door, Inc.	Exterior Doors	Swinging		Approved

Page: Go Page 1 / 1



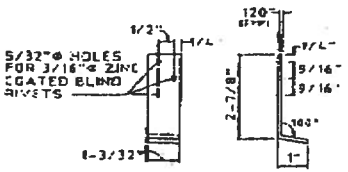
① TYPICAL OVERALL PANEL
SCALE: 3-1/2" = 1'-0"

ASTM A792 GR 80 ALUM. ZINC ALLOY COATED STEEL.



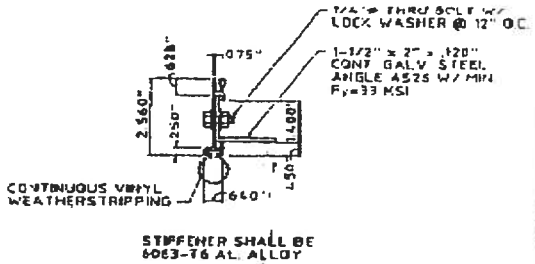
② WINDLOCK CHANNEL GUIDE
SCALE: 3" = 1'-0"

ALL COMPONENTS SHALL BE ASTM A526 STEEL W/ MIN Fy=33 KSI GALVANIZED PER ASTM A525 G-90



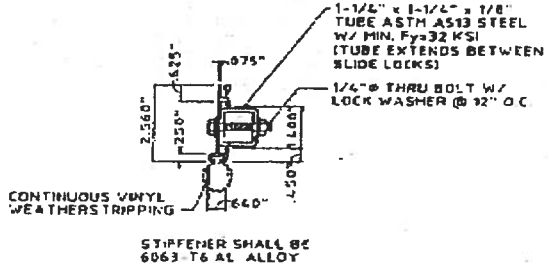
③ WINDLOCK
SCALE: 3" = 1'-0"

ASTM A525 STEEL W/ MIN Fy=33 KSI GALVANIZED PER ASTM A525 G-90



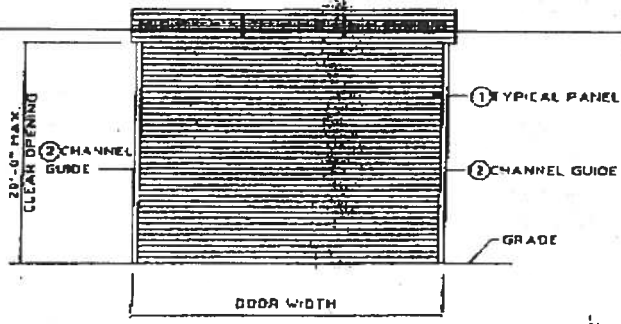
STIFFENER SHALL BE 6063-T6 AL. ALLOY

④ BOTTOM STIFFENER & ANGLE (TYPE A)
SCALE: 3" = 1'-0"

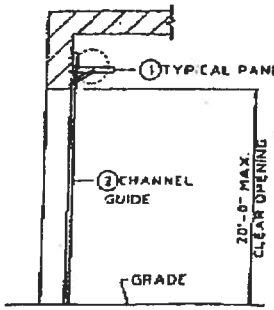


STIFFENER SHALL BE 6063-T6 AL. ALLOY

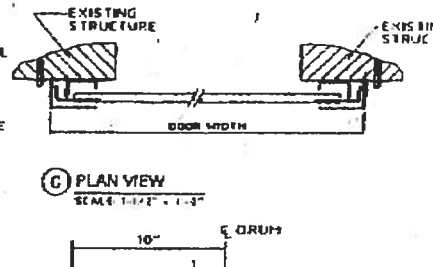
⑤ BOTTOM STIFFENER & TUBE (TYPE B)
SCALE: 3" = 1'-0"



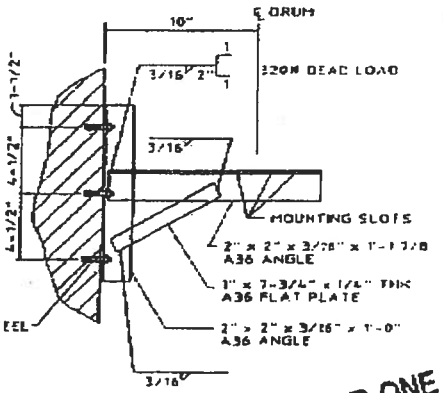
Ⓐ INTERIOR ELEVATION
N.T.S.



Ⓑ SIDE ELEVATION
N.T.S.



Ⓒ PLAN VIEW
SCALE: 1-1/2" = 1'-0"



THREE 3/8"ø U.S. RINGPAN SLEEVE ANCHORS AS SHOWN W/ MIN. 1-1/2" EMBEDMENT IN CONCRETE OR THREE 3/8"ø STEEL SCREWS AS SHOWN W/ PENETRATION INTO MIN 1/8" STEEL

Ⓓ DOOR MOUNTING BRACKET DETAIL
SCALE: 1-1/2" = 1'-0"

GENERAL NOTES:

1. THIS ROLL-UP DOOR IS DESIGNED IN ACCORDANCE WITH THE STANDARD BUILDING CODE, 1991, 1994 & 1997 EDITION, INCLUDING THE 1995 PALM BEACH COUNTY AMENDMENTS.
2. THIS ROLL-UP DOOR HAS BEEN TESTED IN ACCORDANCE WITH THE STANDARD BUILDING CODE AND ASTM E-330 TO SAFELY RESIST A POSITIVE OR NEGATIVE WIND LOAD AS NOTED IN THE DOOR SCHEDULE. A TEST LOAD OF 1.5 x DESIGN LOAD HAS BEEN USED.
3. WIND LOADS FOR BUILDING OPENINGS SHALL BE DETERMINED BY A PROFESSIONAL ENGINEER USING APPROPRIATE WIND SPEED AND DESIGN CRITERIA. THIS DOOR MAY BE USED WHERE THE DESIGN LOAD MEETS OR EXCEEDS THE DESIGN LOAD FOR THE BUILDING OPENING.
4. SUPERIMPOSED LOADS ON THE JAMBS FROM THIS DOOR ARE DESIGNATED AS Vx AND Vy HEREIN. CONTRACTORS SHALL HAVE BUILDING ENGINEER VERIFY ADEQUACY OF BUILDING STRUCTURE TO RESIST SUPERIMPOSED LOADS Vx, Vy AND BRACKET LOADS SHOWN
5. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70.
6. DOORS SHALL BE PROVIDED WITH SLIDE LOCK MECHANISMS AT EACH SIDE OF BOTTOM OF DOOR ENGAGING CHANNEL GUIDES IN THE LOCKED POSITION.

STANDARD BUILDING CODE

FOR ONE PERMIT ONLY
VALID ONLY WITH ORIGINAL SEAL
JAN 1 0 2001

KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
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ROLL - UP DOOR

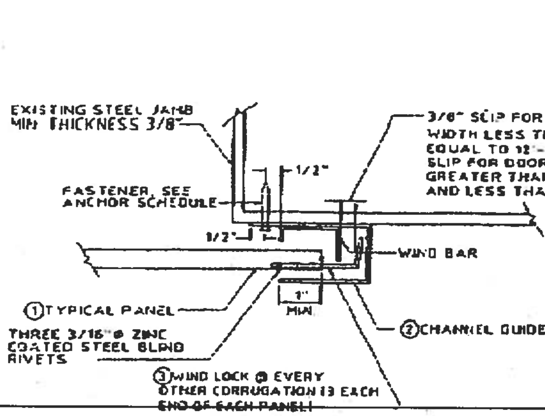
V.J. KNEZEVICH
PROFESSIONAL ENGINEER
STATE OF FLORIDA

98-176S

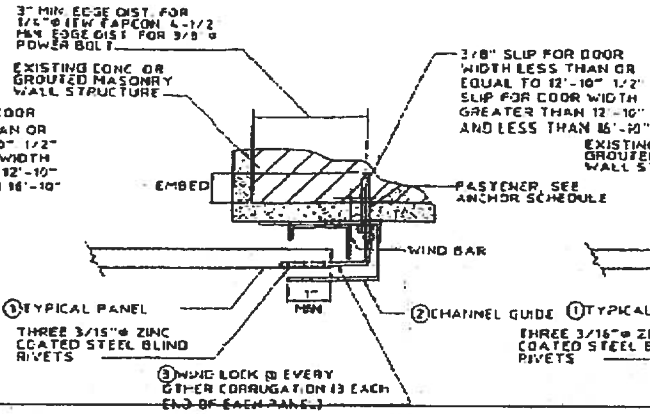
08/31/99 09:35

5000 Series Roll up Door

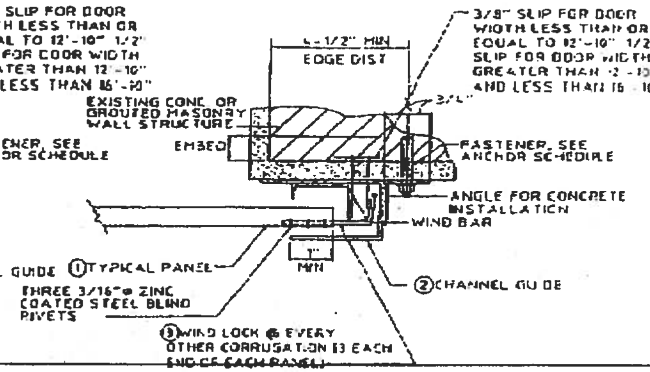
26ga.



E1 WINDLOCK GUIDE CONNECTION TO STEEL JAMB DETAIL
SCALE: 3" = 1'-0"

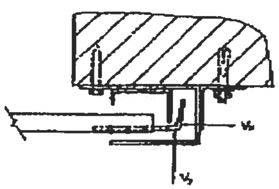


E2 WINDLOCK GUIDE CONNECTION TO CONCRETE OR GROUTED MASONRY DETAIL (INSIDE GUIDE)
SCALE: 3" = 1'-0"



E3 WINDLOCK GUIDE CONNECTION TO CONCRETE OR GROUTED MASONRY DETAIL (OUTSIDE GUIDE)
SCALE: 3" = 1'-0"

DOOR SCHEDULE				ANCHOR SCHEDULE - (FASTENER MAXIMUM SPACING)						
MAX DOOR WIDTH	MAX DESIGN PRESSURE (P.S.F.)	Vx (P.L.F.)	Vy (P.L.F.)	DETAIL E1	DETAIL E2		DETAIL E2		DETAIL E3	
				3/8"ø -12 x 1" HEX WASHER HEAD TYPE B THREAD FORMING ZINC PLATED STEEL SCREW PLUS A 3/8"ø FLAT WASHER	3/8"ø POWER BOLT ANCHOR WITH MINIMUM 2" EMBEDMENT		1/4"ø ITW TAPCON ANCHOR WITH MINIMUM 1-3/4" EMBEDMENT		3/8"ø U.S. KINGPIN SLEEVE ANCHOR WITH MINIMUM 1-7/8" EMBEDMENT	
				STEEL STRUCTURE	CONCRETE STRUCTURE	GROUTED MASONRY STRUCTURE (SEE NOTE No. 2)	CONCRETE STRUCTURE	GROUTED MASONRY STRUCTURE (SEE NOTE No. 2)	CONCRETE STRUCTURE	GROUTED MASONRY STRUCTURE (SEE NOTE No. 2)
≤ 12'-10"	≤ 35.0	980	223	12"	12"	12"	6"	4"	12"	7"
	≤ 26.0	478	165	14"	14"	14"	13"	8	14"	11"
≤ 12'-10"	≤ 30.3	1169	255	8"	12"	9"	4"	N/A	8"	5"
≤ 16'-10"	≤ 26.0	947	218	8"	14"	11"	5"	3"	10"	6"



E SUPERIMPOSED LOAD DIAGRAM
SCALE: 3" = 1'-0"

ANCHOR NOTES:

1. EMBEDMENT LENGTH DOES NOT INCLUDE STUCCO FINISH.
2. FOR HOLLOW MASONRY, FILL ALL CELLS WITHIN 6" OF THE ANCHOR W/ 2500 PSI GROUT.
3. ANCHORS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURERS SPECIFICATIONS.

FOR ONE PERMIT
VALID ONLY WITH ORIGINAL SEAL

JAN 10 2001

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08/31/99 09:38

KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING

ROLL - UP DOOR

V.J. KNEZEVICH
PROFESSIONAL ENGINEER

STANDARD BUILDING CODE

98-176S
sheet 2 of 2

CONSTRUCTION TESTING CORPORATION
13873 N.W. 19th Ave. Miami, Florida 33054
Phone: (305) 685-6657 Fax: (305) 685-6659

Report No: 95-029

23 August 1995

Test Date: 17 August 1995

TESTS ON ROLL DOWN DOORS

Client:

Door & Building Components, Inc.
4310 Industrial Access Road
Douglasville, Georgia 30134

General : Uniform Static Air Pressure Loading, per ASTM E-330

Testing witnessed by:

John W. Knezevich, P.E. Knezevich & Ass.
Don Mills, Product Engineer for D.B.C.I.
Bill Mathews, President J. B. Mathews
George Dotzler, CTC Test Engineer

Statement of Conformance : This is a general statement and does not supersede the specific product descriptions in this report. The specimens are in conformance with drawings provided by the manufacturer, labeled:

ROLL - UP DOOR

D.B.C.I.

Door & Building Components, Inc.
4310 Industrial Access Road
Douglasville, Georgia 30134

Date : 8 - 23 - 95 Drawing # 95 - 430

Description of Test Specimen: The specimen was a roll down door manufactured by Door & Building Components, Inc. . This door was installed covering a nominal opening 16'-0" wide by 16'-0" high. The door was constructed of painted galvanized steel sheet (mic'd @ 0.0240" w/ galvanized, w/o paint). The specimens channel guides were secured to the steel jamb (1/4" steel plate) of the test chamber with 9/16" hex head self threading 3/8" x 1" screws at 4" on center. These channel guides were as shown in detail 2 "Windlock Channel Guide" of the manufacturers supplied drawings. The left guide fastenings were secured through the 1-1/2" x 1-1/2" angle typically used for concrete installations. The right channel guide did not include this feature (the 1-1/2" x 1-1/2" angle) and the fastenings were secured through the center of the 1" protruding flange as shown detail 2. The door's bottom bar was as shown in detail 5 "Bottom Stiffener & Angle (Type B)" in the manufacturers drawings. Before testing this door was fully functional.

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Static Wind Loading / Manner of Testing:

Loads applied to the specimen (10 seconds durations in loading cycles greater than 40 seconds) were at levels specified by the client's Consulting Engineer. Polyethylene film (2 mil) and tape were used to seal air leakage during loads. The film and tape were used in a manner that did not influence the results. Deflection gauges were mounted at each jamb to record deflections along the center line of the door. The deflection readings are as follows:

		Left		Center		Right		Net @ Center Line		
Load	Load	Delta	Delta	Delta	Delta	Delta	Delta	Delta	Delta	Percent
PSF	In. H2O	.@ Load	.@ Rec'y	.@ Load	.@ Rec'y	.@ Load	.@ Rec'y	.@ Load	.@ Rec'y	Recovery
0.0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	NA
15.6	3.0	0.500	0.063	11.438	0.188	0.500	0.016	10.938	0.148	98.6
20.8	4.0	0.531	0.063	12.063	0.125	0.516	0.156	11.539	0.016	99.9
26.0	5.0	0.531	0.031	13.000	0.063	0.563	0.031	12.453	0.031	99.7
31.2	6.0	0.563	0.031	13.750	0.125	0.625	0.063	13.156	0.078	99.4
38.5	7.4	0.625	0.125	14.938	0.313	0.750	0.063	14.250	0.219	98.5
45.5	8.8	0.688	0.156	16.250	0.750	0.875	0.063	15.469	0.641	95.9
52.5	10.1	NR	NR	NR	NR	NR	NR	NR	NR	NR

As loading was initiated it momentarily rose to approximately 55 PSF then immediately reduced to the desired level.

The correct load was held for approximately 4 seconds when the windlocks failed at the center of the right jamb.

SUMMARY

One roll down door specimen manufactured by DBCI was wind loaded in accordance with **ASTM** E-330 under the supervision of the clients consulting engineer. Loads were chosen to prove the adequacy of the product to sustain a design load of 25.5 PSF. In fact the sustained test load of 45.5 PSF proved the product to a design load of 30.3 PSF.

Respectfully submitted,

CONSTRUCTION TESTING CORPORATION.
(Dade County Certification # 95-0419.02)

Report by George Dotzler : _____

Test witnessed & report reviewed by John W. Knezevich, P.E. : _____

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Static Wind Loading / Manner of Testing:

Loads applied to the specimen (10 seconds durations in loading cycles greater than 40 seconds) were at levels specified by the client's Consulting Engineer. Polyethylene film (2 mil) and tape were used to seal air leakage during loads. The film and tape were used in a manner that did not influence the results. Deflection gauges were mounted at each jamb to record deflections along the center line of the door. The deflection readings are as follows:

		Left		Center		Right		Net @ Center Line		
Load	Load	Delta	Delta	Delta	Delta	Delta	Delta	Delta	Delta	Percent
PSF	In. H2O	@ Load	@ Rec'y	@ Load	@ Rec'y	@ Load	@ Rec'y	@ Load	@ Rec'y	Recovery
0.0	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	NA
15.6	3.0	0.313	0.000	7.625	0.094	0.406	0.000	7.266	0.094	98.7
20.8	4.0	0.313	0.016	8.063	0.094	0.438	0.000	7.688	0.086	98.9
26.0	5.0	0.313	0.016	8.625	0.188	0.500	0.000	8.219	0.180	97.8
31.2	6.0	0.375	0.016	9.125	0.219	0.531	0.000	8.672	0.211	97.6
38.5	7.4	0.375	0.016	9.750	0.125	0.594	0.031	9.266	0.102	98.9
45.5	8.8	0.406	0.016	10.531	0.172	0.688	0.063	9.984	0.133	98.7
52.5	10.1	0.469	0 031	11.266	0.563	0.813	0.188	10.625	0.453	95.7
61.1	11.8	0.938	NR	14.875	NR	1.250	NR	13.781	NR	NR

Load was held for 9 seconds at this level when the wind locks failed at the left center jamb.

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Impact Manner of Testing: In accordance with Dade County Test Protocol PA 201-94 (rev 2) IMPACT TEST PROCEDURE.

This testing was performed as an experiment for the research and development of this product for Dade County Product Approval. One door assembly was tested, this was installed as previously described. It was impacted twice with a **9.0 lb. 2x4 of No. 2 Southern Pine** in locations as indicated in the document "Answers to questions most frequently asked about the new impact test" (by Jaime Gascon of DCPC) and a third time in a location specified by the clients engineer.

Impact Test Results

Shot	Impact Location	Impact Coordinates Rt(in), Up(in)	Firing Pressure in Hg	Impact Velocity Ft / Sec	Results
1	Right Bottom Corner	140, 12	9.88	49.6	No Penetration
2	Panel center @ Midspan	72, 33.5	10.00	50.2	No Penetration
3	Panel seam @ Midspan	73, 42.5	10.00	49.5	No Penetration

SUMMARY

One roll down door specimen manufactured by DBCI was wind loaded in accordance with **ASTM E-330** under the supervision of the clients consulting engineer. Loads were chosen to prove the adequacy of the product to sustain a design load of 25.5 PSF. In fact the product sustained a test load of 52.5 PSF adequate to prove a design load of 35 PSF.

Following wind loading undamaged portions of the specimen were subjected to three impacts in accordance with **Dade County Test Protocol PA 201-94 (ver 2.0)**. None of these impacts resulted in the penetration of the specimen.

Respectfully submitted,

CONSTRUCTION TESTING CORPORATION.
(Dade County Certification # 95-0419.02)

Report by George Dotzler : 8-23-95

Test witnessed & report reviewed by John W. Knezevich, P.E. :