



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Raynor Garage Doors
1101 East River Road, P.O. Box 448
Dixon ,IL 61021

Your application for Notice of Acceptance (NOA) of:

Residential Sectional Garage Door 16' Wide

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 00-1116.04
EXPIRES: 12/26/2005

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 02/15/2001

Raynor Garage Doors.

ACCEPTANCE No: 00-1116.04

APPROVED: FEB 15 2001

EXPIRES: 12/26/2005

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. SCOPE

This renews the Notice of Acceptance No. 97-0612.04 that was issued on 12/26/97. It approves a sectional steel garage door 16'-0" wide x 7'-0" high, as described in Section 2 of this Notice of Acceptance (NOA), designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County. For the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

The **Raynor Sectional Garage Door** and its components shall be constructed in strict compliance with the following documents: Drawing No P-1282, titled "SPEC. WINDLOAD DECADE SHOWCASE 16'-0" WIDE " prepared by Raynor Garage Doors, drawn on 04/07/97, with last revision on 10/31/00, sheet 1 of 1. They bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

This approval requires the manufacturer to do testing of all coils used to fabricate door panels under this Notice of Acceptance. A minimum of 2 specimens shall be cut from each coil and tensile tested according to ASTM E-8 by a Dade County approved laboratory selected and paid by the manufacturer. Every 3 months, four times a year, the manufacturer shall mail to this office: a copy of the tested reports with confirmation that the specimens were selected from coils at the manufacturer production facilities. And a notarized statement from the manufacturer that only coils with yield strength of 33,000 psi or more shall be used to make door panels for Dade County under this Notice of Acceptance.

4. INSTALLATION

- 4.1 The sectional steel garage door and its components shall be installed in strict compliance with the approved drawings.
- 4.2 The installation of this door does **not require** a hurricane protection system.
- 4.3 Units with dimensions equal to or smaller than those shown in the approved drawing shall qualify under this approval.

5. LABELING

Each door shall bear a **permanent** label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
 - 6.1.1 This Notice of Acceptance with duplicate copies of the approved drawings as identified in Section 2 of this NOA, marked to show the components selected for the proposed installation.
 - 6.1.2 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Candido Font, PE. Sr. Product Control Examiner
Product Control Division

Raynor Garage Doors.

ACCEPTANCE No: 00-1116.04

APPROVED: FEB 15 2001

EXPIRES: 12/26/2005

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approval", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE



Candido Font, PE. Sr. Product Control Examiner
Product Control Division

Raynor Garage Doors.

ACCEPTANCE No. : 00-1116.04

APPROVED: FEB 1 5 2001

EXPIRES: 12/26/2005

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA.)

A. DRAWINGS

1. *Drawing prepared by Raynor Garage Doors, titled "SPEC. WINDLOAD DECADE SERIES 16' 0" WIDE", Drawing No. P1282, dated 04/07/97, with last revision on 10/31/00, sheets 1 of 1, signed and sealed by R. A. Baumann, PE.*

B. TESTS

1. *Test report of large missile impact test per PA 201 and cyclic wind pressure test per PA 203 on "Residential Garage Door. 16' W x 7' H, prepared by Hurricane Engineering & Testing, Inc., report No. HETI 97-611, dated 05/06/97, signed and sealed by H M. Medina, PE.*
2. *Test report of uniform static air pressure test per PA 202 on a "Residential Garage Door. 16' W x 7' H." prepared by Hurricane Engineering & Testing, Inc., report No. HETI 97-608, dated 05/06/97, signed and sealed by H. M. Medina, PE.*

C. CALCULATIONS

1. *Calculations of Jamb and Header Attachment, prepared by G. A. Heckman, page 1, signed and sealed by G. A. Heckman PE, on 06/09/97.*

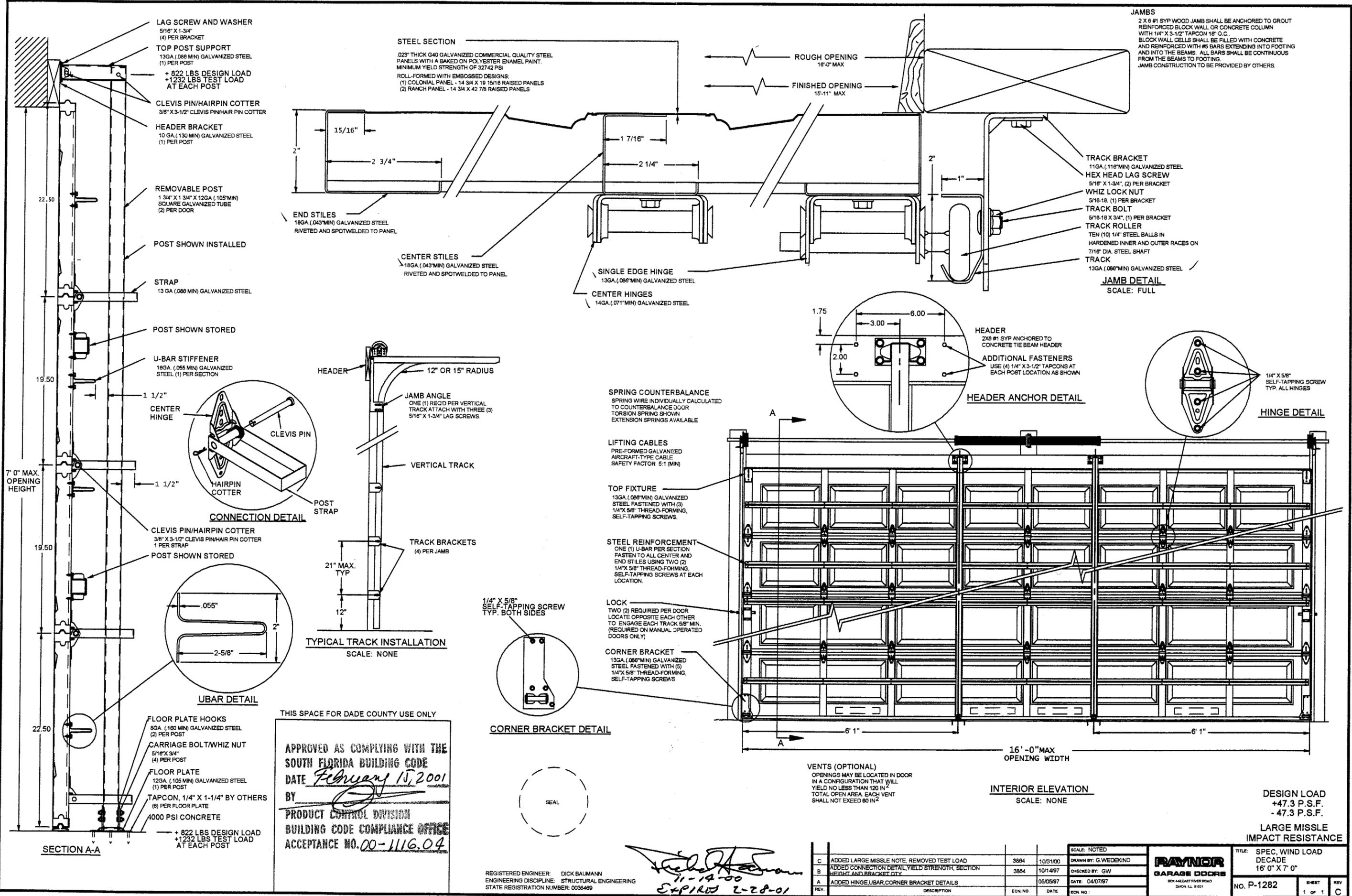
D. MATERIAL CERTIFICATIONS

1. *Test report of Tensile test per ASTM E8 prepared by Hurricane Engineering & Testing, Inc. on 04/28/97, Report No. HETI 97-T45 signed and sealed by H. M. Medina, PE.*
2. *Test report of Ignition of plastic test per ASTM D1929, prepared by U.S. Testing Co., Inc. on 08/28/87, signed by J. Lomash.*
3. *Underwriters Laboratories report card No. R6705(N) for Flame Spread & Smoke Developed of Falcon Foam with no date.*

E. STATEMENTS.

1. *Letter of galvanized and paint comparison confirming that painting appeared to be equal or better, prepared by Wendler Engineering and Surveying on 06/13/94 signed and sealed by R. A. Bauman, PE.*
2. *Letter of door production within the yield strength tolerance and no change, prepared by Raynor Garage Door on 01/21/2001, signed by G. Wedekind and notarized by P. J. Willard.*


Candido Font, PE. Sr. Product Control Examiner
Product Control Division



LAG SCREW AND WASHER
5/16" X 1-3/4"
(4) PER BRACKET

TOP POST SUPPORT
13GA (.088 MIN) GALVANIZED STEEL
(1) PER POST

+ 822 LBS DESIGN LOAD
+1232 LBS TEST LOAD
AT EACH POST

CLEVIS PIN/HAIRPIN COTTER
3/8" X 3-1/2" CLEVIS PIN/HAIR PIN COTTER

HEADER BRACKET
10 GA (.130 MIN) GALVANIZED STEEL
(1) PER POST

REMOVABLE POST
1 3/4" X 1 3/4" X 12GA (.105 MIN)
SQUARE GALVANIZED TUBE
(2) PER DOOR

POST SHOWN INSTALLED

STRAP
13 GA (.088 MIN) GALVANIZED STEEL

POST SHOWN STORED

U-BAR STIFFENER
16GA (.065 MIN) GALVANIZED
STEEL (1) PER SECTION

CENTER HINGE

1 1/2"

CLEVIS PIN/HAIRPIN COTTER
3/8" X 3-1/2" CLEVIS PIN/HAIR PIN COTTER
1 PER STRAP

POST SHOWN STORED

0.55"

2-5/8"

FLOOR PLATE HOOKS
8GA (.180 MIN) GALVANIZED STEEL
(2) PER POST

CARRIAGE BOLT/WHIZ NUT
5/16" X 3/4"
(4) PER POST

FLOOR PLATE
12GA (.105 MIN) GALVANIZED STEEL
(1) PER POST

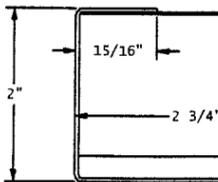
TAPCON, 1/4" X 1-1/4" BY OTHERS
(6) PER FLOOR PLATE

4000 PSI CONCRETE

+ 822 LBS DESIGN LOAD
+1232 LBS TEST LOAD
AT EACH POST

STEEL SECTION
0.023" THICK G40 GALVANIZED COMMERCIAL QUALITY STEEL
PANELS WITH A BAKED ON POLYESTER ENAMEL PAINT.
MINIMUM YIELD STRENGTH OF 32742 PSI

ROLL-FORMED WITH EMBOSSED DESIGNS:
(1) COLONIAL PANEL - 14 3/4 X 18 15/16 RAISED PANELS
(2) RANCH PANEL - 14 3/4 X 42 7/8 RAISED PANELS



END STILES
18GA (.043 MIN) GALVANIZED STEEL
RIVETED AND SPOTWELDED TO PANEL

CENTER STILES
18GA (.043 MIN) GALVANIZED STEEL
RIVETED AND SPOTWELDED TO PANEL

SINGLE EDGE HINGE
13GA (.085 MIN) GALVANIZED STEEL

CENTER HINGES
14GA (.071 MIN) GALVANIZED STEEL

ROUGH OPENING
16'-0" MAX

FINISHED OPENING
15'-11" MAX

TRACK BRACKET
11GA (.116 MIN) GALVANIZED STEEL

HEX HEAD LAG SCREW
5/16" X 1-3/4", (2) PER BRACKET

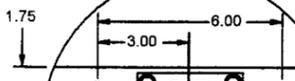
WHIZ LOCK NUT
5/16-18, (1) PER BRACKET

TRACK BOLT
5/16-18 X 3/4", (1) PER BRACKET

TRACK ROLLER
TEN (10) 1/4" STEEL BALLS IN
HARDENED INNER AND OUTER RACES ON
7/16" DIA. STEEL SHAFT

TRACK
13GA (.088 MIN) GALVANIZED STEEL

JAMB DETAIL
SCALE: FULL



HEADER
2X8 #1 SYP WOOD JOIST ANCHORED TO
CONCRETE TIE BEAM HEADER

ADDITIONAL FASTENERS
USE (4) 1/4" X 3-1/2" TAPCONS AT
EACH POST LOCATION AS SHOWN

HEADER ANCHOR DETAIL



HINGE DETAIL

SPRING COUNTERBALANCE
SPRING WIRE INDIVIDUALLY CALCULATED
TO COUNTERBALANCE DOOR
TORSION SPRING SHOWN
EXTENSION SPRINGS AVAILABLE

LIFTING CABLES
PRE-FORMED GALVANIZED
AIRCRAFT-TYPE CABLE
SAFETY FACTOR 5:1 (MIN)

TOP FIXTURE
13GA (.088 MIN) GALVANIZED
STEEL FASTENED WITH (3)
1/4" X 5/8" THREAD-FORMING,
SELF-TAPPING SCREWS.

STEEL REINFORCEMENT
ONE (1) U-BAR PER SECTION
FASTEN TO ALL CENTER AND
END STILES USING TWO (2)
1/4" X 5/8" THREAD-FORMING,
SELF-TAPPING SCREWS AT EACH
LOCATION.

LOCK
TWO (2) REQUIRED PER DOOR
LOCATE OPPOSITE EACH OTHER
TO ENGAGE EACH TRACK 5/8" MIN.
(REQUIRED ON MANUAL OPERATED
DOORS ONLY)

CORNER BRACKET
13GA (.088 MIN) GALVANIZED
STEEL FASTENED WITH (5)
1/4" X 5/8" THREAD-FORMING,
SELF-TAPPING SCREWS

1/4" X 5/8"
SELF-TAPPING SCREW
TYP. BOTH SIDES



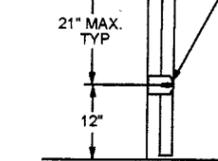
CORNER BRACKET DETAIL



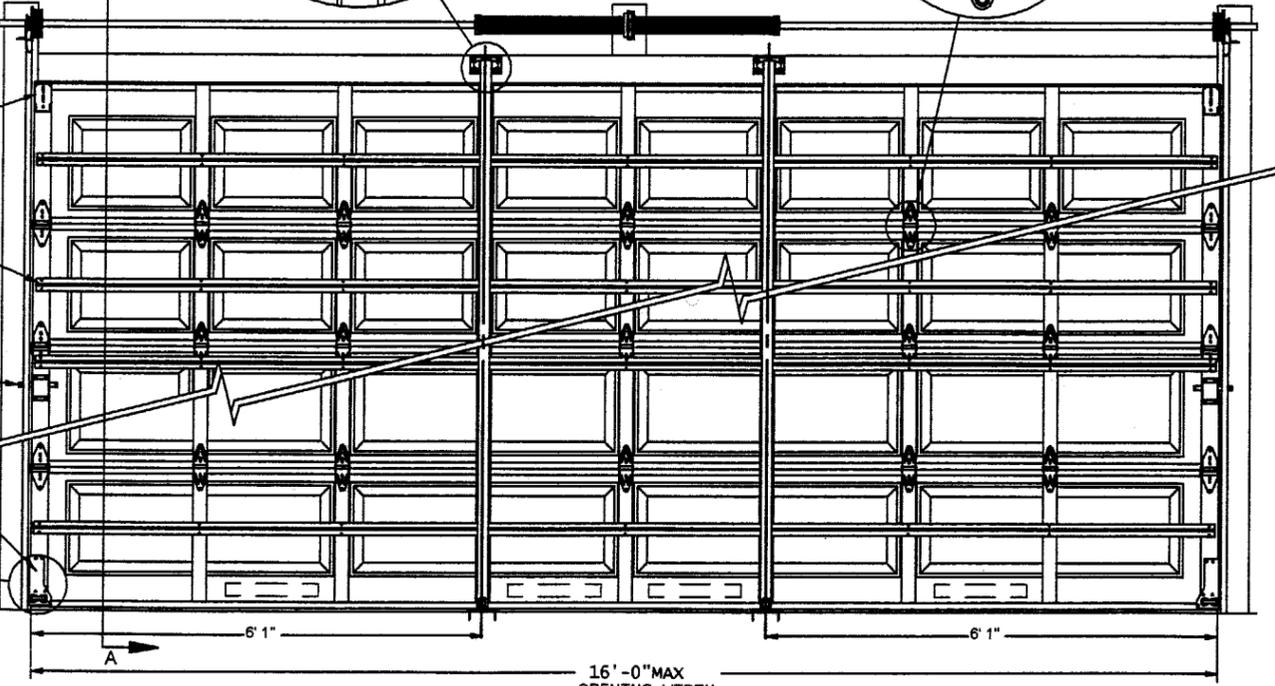
JAMB ANGLE
ONE (1) REQD PER VERTICAL
TRACK ATTACH WITH THREE (3)
5/16" X 1-3/4" LAG SCREWS

VERTICAL TRACK

TRACK BRACKETS
(4) PER JAMB



TYPICAL TRACK INSTALLATION
SCALE: NONE



VENTS (OPTIONAL)
OPENINGS MAY BE LOCATED IN DOOR
IN A CONFIGURATION THAT WILL
YIELD NO LESS THAN 120 IN²
TOTAL OPEN AREA. EACH VENT
SHALL NOT EXCEED 60 IN²

INTERIOR ELEVATION
SCALE: NONE

DESIGN LOAD
+47.3 P.S.F.
- 47.3 P.S.F.

LARGE MISSILE
IMPACT RESISTANCE

THIS SPACE FOR DADE COUNTY USE ONLY

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE February 15, 2001
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1116.04

REGISTERED ENGINEER: DICK BAUMANN
ENGINEERING DISCIPLINE: STRUCTURAL ENGINEERING
STATE REGISTRATION NUMBER: 0036469

[Signature]
11-14-00
EXPIRES 2-28-01

REV.	DESCRIPTION	ECN NO.	DATE	ECN NO.
C	ADDED LARGE MISSILE NOTE, REMOVED TEST LOAD	3864	10/31/00	
B	ADDED CONNECTION DETAIL, YIELD STRENGTH, SECTION HEIGHT AND BRACKET CITY	3864	10/14/97	
A	ADDED HINGE, UBAR, CORNER BRACKET DETAILS		05/05/97	

SCALE:	NOTED
DRAWN BY:	G. WEDDEKIND
CHECKED BY:	GW
DATE:	04/07/97



TITLE:	NO. P-1282	SHEET	REV
SPEC. WIND LOAD DECADE 16' 0" X 7' 0"		1	1

00-1116-04