



**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**

**Collier a Division of System Design & Mfg., Inc.**  
**48 Dalkeith Dr.**  
**Brantford ,On N3P 1N6**

Your application for Notice of Acceptance (NOA) of:

**Collier-Fortress Post Hardware System**

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.

**ACCEPTANCE NO.: 01-0410.03**  
**EXPIRES: 08/30/2006**

Raul Rodriguez  
Chief Product Control Division

**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: 08/30/2001**

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

**1. SCOPE**

- 1.1** This approves a Sectional Steel Door, as described in Section 2 of this Notice of Acceptance designed to comply with the South Florida Building Code (SFBC), 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**

- 2.1** The **Collier 18'wide Sectional Door** and its components shall be constructed in strict compliance with the following documents: Drawing No. CFL3WLP-188, titled "Collier/Fortress Level 3 Wind Load Hardware Package" prepared by Collier a Division of System Design & Mfg. Inc., dated 08/02/01 with no revisions, Sheet 1 to 2 of 2. It bears the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

- 3.1** Units with dimensions equal to or smaller than those shown on the approved drawings shall qualify under this approval, as long as all the components are exactly as described in this approval.
- 3.2** 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, 4 times a year the manufacturer shall mail to this office a copy of the Test Reports with confirmation that the specimens were selected from coils at the manufacturer's production facilities. And a notarized statement from the manufacturer that only coils with yield strength of 37,000 PSI or more shall be used to make door panels for Dade County under this Notice of Acceptance.

**4. INSTALLATION**

- 4.1** The Sectional Door and its components shall be constructed in strict compliance with the approved drawings.
- 4.2** The installation of this door **does not require** a Hurricane Protection System

**5. LABELING**

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

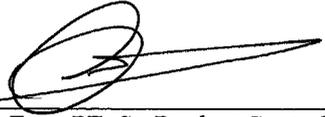
**6. BUILDING PERMIT**

- 6.1** Building Permit shall be accompanied by copies of the following:
- 6.1.1** This Notice of Acceptance, including two copies of the approved drawings as identified in Section 2.
- 6.1.2** Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of this system.

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

**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 documentation, 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 Approved", 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 purpose.
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 need 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.

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

**END OF THIS ACCEPTANCE**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**  
**(For File ONLY. Not part of NOA)**

**A DRAWINGS**

1. Drawing prepared by Collier a Division of System Design & Mfg. Inc. titled "Collier/Fortress Level 3 Wind Load Hardware Package", Drawing No. CFL3WLP-188 dated 08/02/01 with no revision, Sheets 1 to 2 of 2 signed and sealed by F. A. Fore, PE.

**B TEST**

1. Test Report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of "Collier/Fortress Level 3 Windload Hardware Package" prepared by Hurricane Test Laboratory, Inc. Report #0238-0802-00 Specimen 2, 4 & 6, dated 08/09/00, revised with a letter dated 03/23/01, both are signed and sealed by V. J. Abraham, PE.

**C CALCULATIONS**

1. Anchor Calculations on sheet 2 of 2 of drawing # CFL3WLP-188, dated 08/02/01, prepared by Collier a Division of System Design & Mfg. Inc., signed and sealed by F. A. Fore, PE

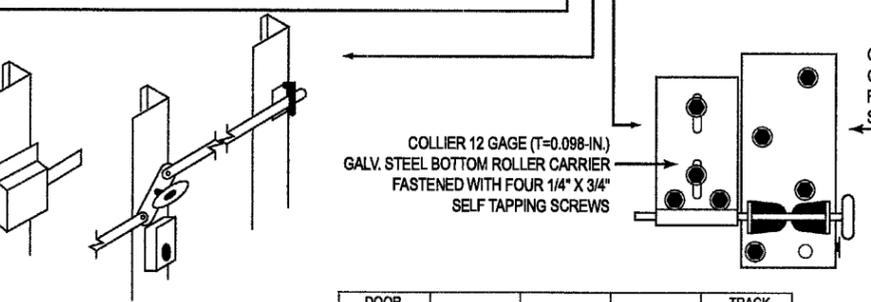
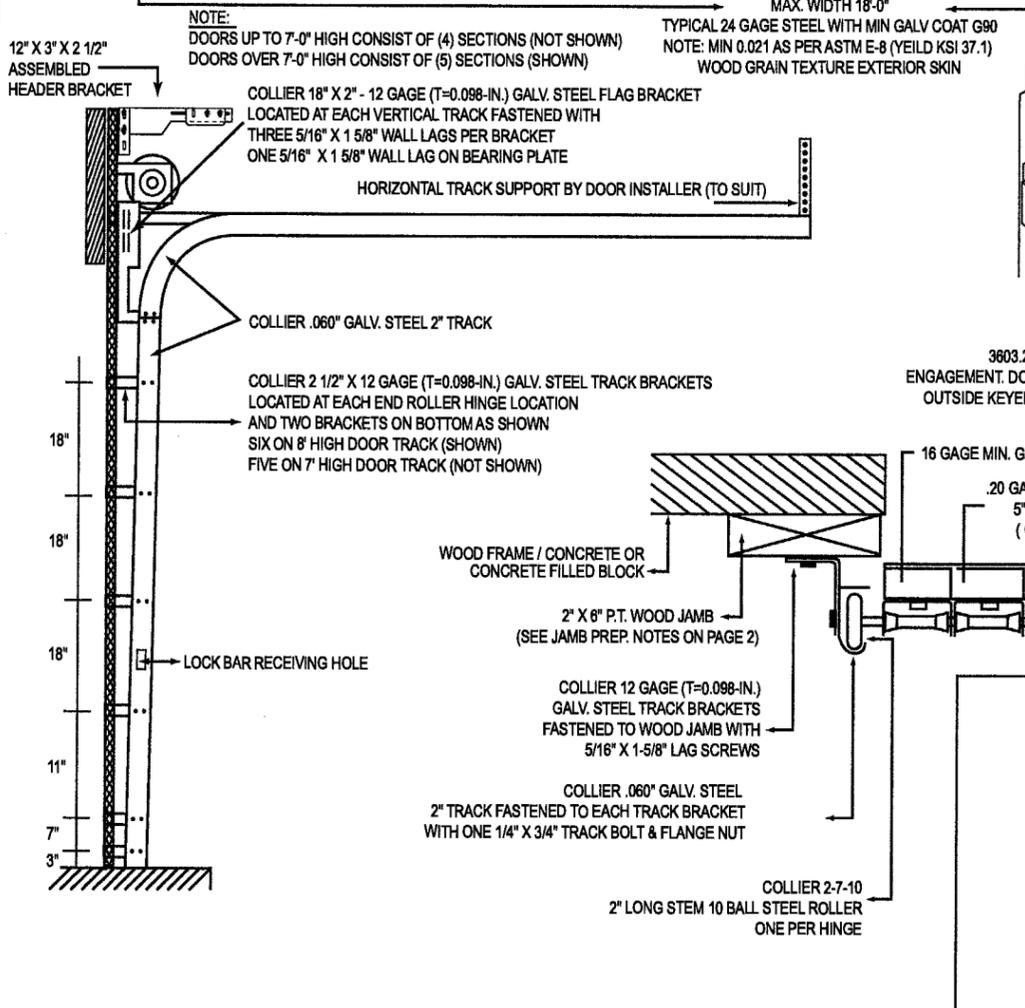
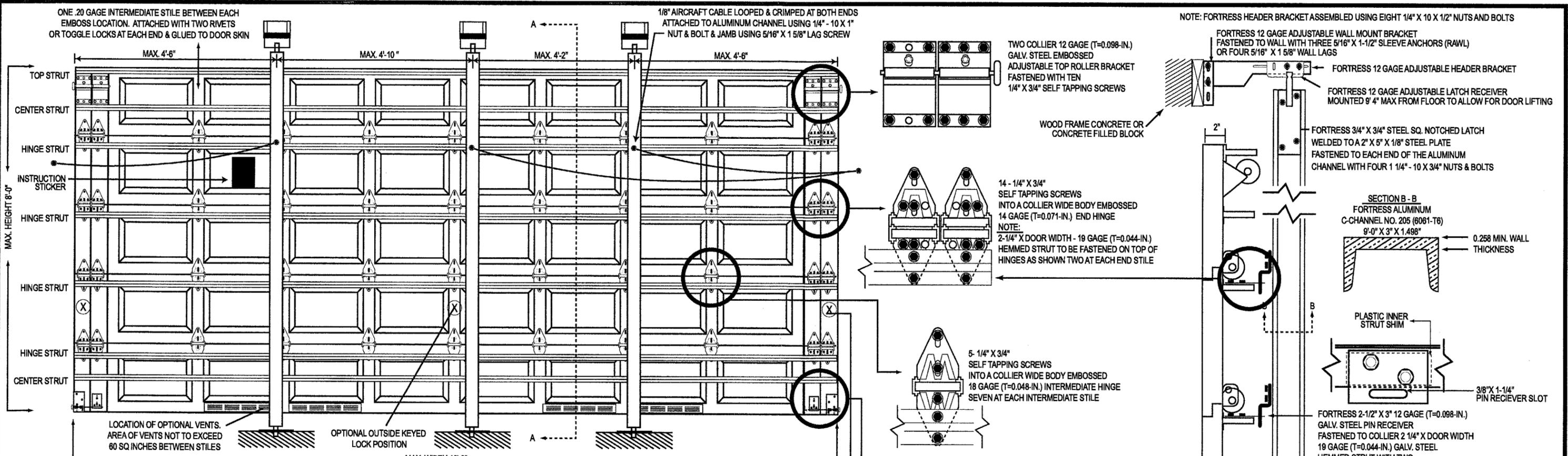
**D MATERIAL CERTIFICATION**

- 1 Tensile Test Report No. 1FM-873, prepared by Q. C. Metallurgical, Inc. dated 06/27/01, signed and sealed by Robert Kelly.

**E STATEMENTS**

- 1 Letter of Code Compliance issued by EAS Engineering Analyses & Solutions, on 03/21/01 and signed by F. A. Fore, PE.
- 2 Letter of No-financial Interest issued by EAS Engineering Analyses & Solutions, on 12/06/00 and signed by F. A. Fore, PE.
- 3 Letter of Test Compliance issued by Hurricane Test Laboratory, Inc. dated 04/15/01, signed and sealed by V. J. Abraham, PE
- 4 Manufacturer/Distribution Agreement between Collier & Marko Doors signed by K. Fletcher on 07/30/01 & W. Bwojtylko on 07/30/01.

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



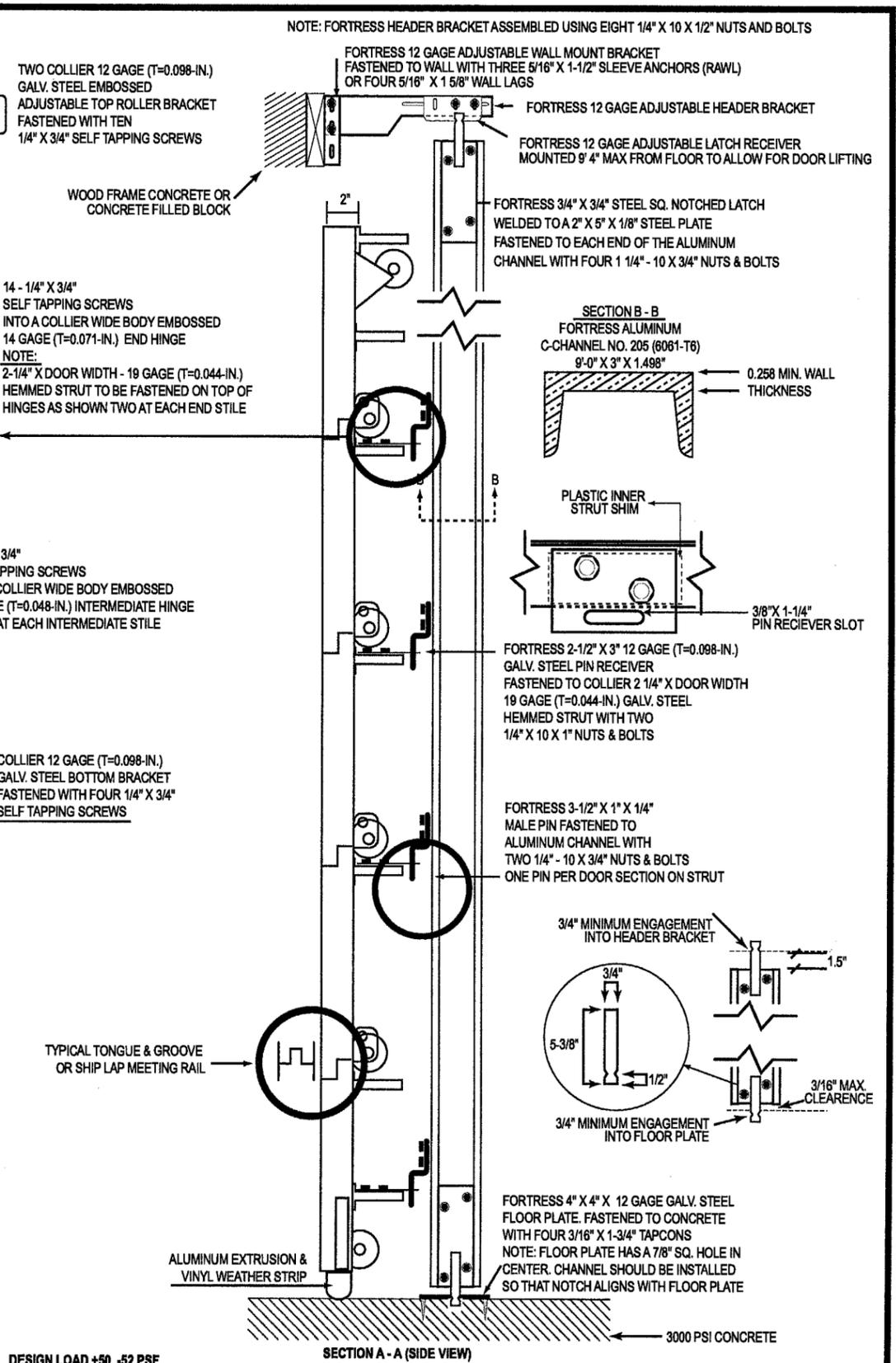
DOOR HEIGHT	21" SEC	19" SEC	18" SEC	TRACK BRACKETS
6'-0"	-	-	4	5
6'-6"	2	-	2	5
7'-0"	4	-	-	5
7'-6"	-	-	5	6
8'-0"	2	-	3	6
8'-0"	-	5	-	6

Sizes	# of Posts	Design Load* (+)	Design Load* (-)
MIN 16' - 1" X 6' - 0"	3	50	52
MAX 18' - 0" X 8' - 0"	3	50	52

\*All posts must be engaged to achieve design wind load

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE **AUG 30 2001**  
 BY *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. **06-0410.03**

*[Signature]* 8/3/01  
 FRANK A. FORE, P.E.  
 042561



DESIGN LOAD +50 -52 PSF

**COLLIER**  
 A DIVISION OF SYSTEM DESIGN & MFG. INC.

**Fortress**  
 U.S. PATENT NO. 5732758

**Collier/Fortress Level 3 Wind Load Hardware Package**

48 Dalkelth Drive  
 Brantford, Ontario N3P 1N6  
 Phone: 519-759-8090  
 Fax: 519-759-4912

4200 Westroads Drive  
 West Palm Beach, FL 33407  
 Phone: 561-863-0650  
 Fax: 561-881-5635

Collier / Fortress All Rights Reserved.  
 The arrangement depicted herein are the sole property of Collier/Fortress and may not be reproduced in any form without written permission.

Drawing Number  
**CFL3WLP-188**

8/02/01

Sheet No. 1 of 2

**2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT**

- A) APPROXIMATELY SEVENTY FIVE PERCENT OF THE WIND LOAD (-5616 LBS) FROM THE DOOR IS TRANSFERRED TO THE FORTRESS ALUMINUM C-CHANNEL(S).
- B) ONE-HALF OF THE COMBINED FORTRESS ALUMINUM C-CHANNEL(S) LOAD IS TRANSFERRED TO THE HEADER BRACKET(S) AND THEN FROM THE HEADER BRACKET(S) TO THE FASTENERS (SEE PAGE 1 OF THIS DRAWING)
- C) THE REMAINING ONE-HALF OF THE FORTRESS ALUMINUM C-CHANNEL(S) LOAD IS TRANSFERRED TO THE FLOOR THROUGH THE FLOOR PLATE(S) AND THEN INTO THE FASTENER(S).
- D) THE REMAINING TWENTY-FIVE PERCENT OF THE WIND LOAD (-1872 LBS) FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK AND FLAG BRACKETS AND THEN FROM THE TRACK TO THE 2X6 PRESSURE TREATED VERTICAL JAMBS (GRADE #2 OR BETTER YELLOW PINE).
- E) THE FORTRESS HEADER BRACKET(S) SEES A MAXIMUM DESIGN LOAD OF +900 LB AND -936 LB (-468 LB. PER SLEEVE ANCHOR OR -234 LB. PER WALL LAGS)
- F) EACH FLOOR PLATE(S) SEES A MAXIMUM DESIGN LOAD OF +900 LB. AND -936 LB (-234 LB. PER TAPCON)
- G) EACH VERTICAL JAMB/TRACK SEES A MAXIMUM DESIGN LOAD OF +900 LB. AND -936 LB (-187.2 LB PER WALL LAG)
- H) ALL JAMB FASTENERS MAY BE (BUT NOT REQUIRED) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

**WOOD FRAME BUILDINGS**

- A) STUD WALLS OF DOOR OPENING SHALL BE FRAMED SOLID BY NOT LESS THAN (3) 2x6 PRESSURE TREATED GRADE #2 OR BETTER WOOD STUD OF A STRESS GRADE NOT LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS BENDING (Fb).
- B) STUD WALLS TO BE CONTINUOUS FROM FOOTING TO TIE BEAMS AND IN ACCORDANCE WITH SFBC SECTION 2905.1.

**BLOCK WALL OR CONCRETE**

- A) 2x6 WOOD JAMB SHALL BE ANCHORED TO GROUT REINFORCED BLOCK WALL OR CONCRETE COLUMN.
- B) BLOCK WALL CELLS SHALL BE FILLED WITH CONCRETE AND REINFORCED WITH #5 BAR EXTENDING INTO FOOTING AND INTO TIE BEAMS.
- C) ALL BARS SHALL BE CONTINUOUS FROM THE TIE BEAMS TO FOOTING PER BLOCK WALL OR CONCRETE COLUMN.
- D) BLOCK WALLS AND CONCRETE COLUMNS TO BE DESIGNED BY BUILDING PROFESSIONAL OF RECORD AND IN ACCORDANCE WITH SFBC SECTION 2704.2.

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON CENTER DISTANCE BETWEEN FASTENERS	STEEL WASHERS REQUIRED
WOOD FRAME	1/2" x 3" EMBED LAG SCREW (ASTM A307, GRADE A)	16"	YES
BLOCK WALL OR CONCRETE	1/4" x 1-3/4" MIN. EMBED TAPCON CONCRETE ANCHOR	10"	YES
BLOCK WALL OR CONCRETE	3/8" x 1-3/4" MIN. EMBED RAWL-STUD EXPANSION ANCHOR (7400 SERIES)	19"	NO
BLOCK WALL OR CONCRETE	3/8" x 1-3/4" MIN. EMBED RAWL LOK/BOLT ANCHOR BOLT (5000 SERIES)	16"	NO

\*MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 3", EXCLUDING STUCCO THICKNESS.  
COLLIER/FORTRESS DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.

**JAMB PREPARATION NOTE**

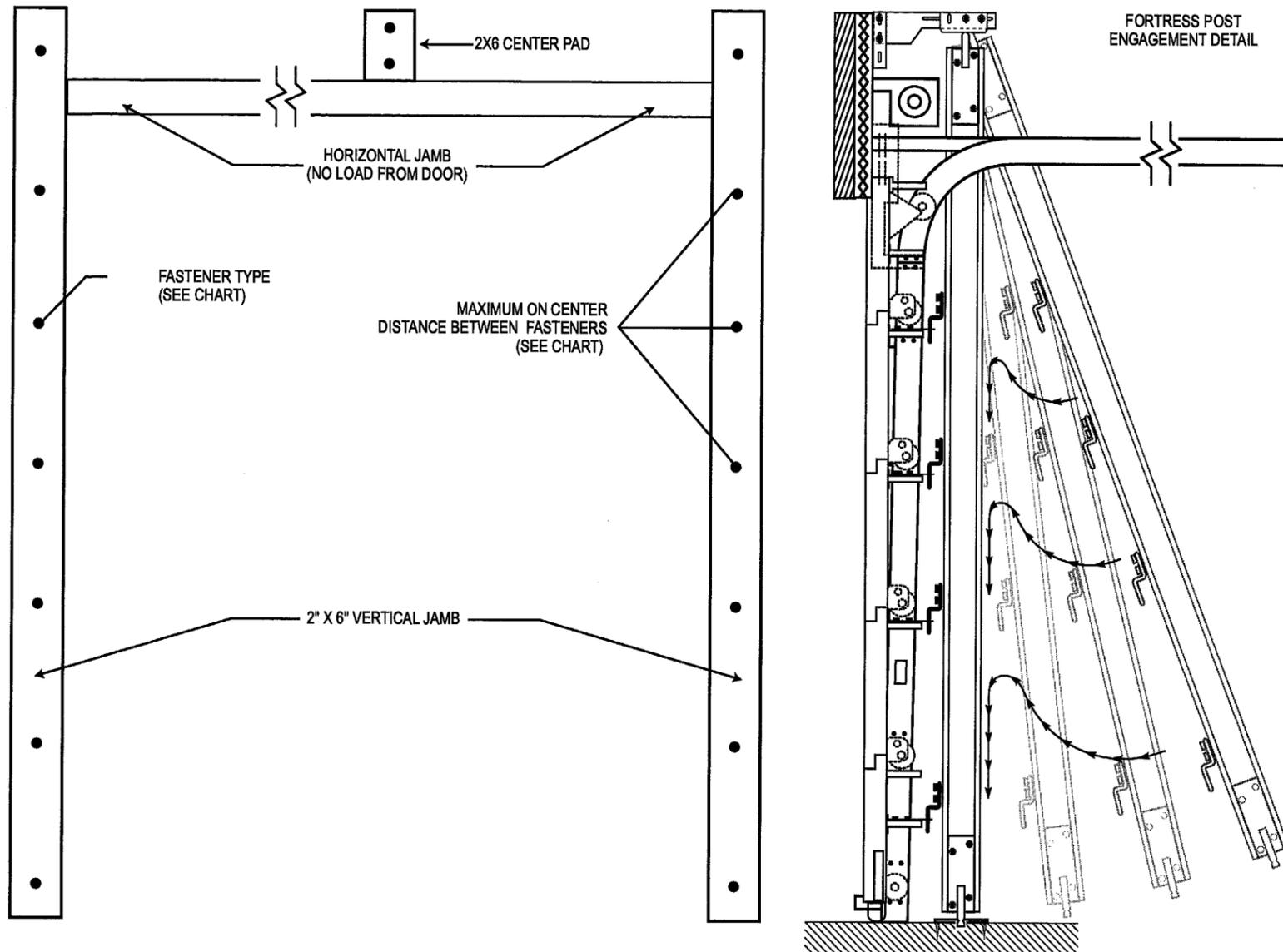
- A) EACH TRACK AND FLAG BRACKET SHALL BE FASTENED TO PRESSURE TREATED 2x6 YELLOW PINE WOOD JAMBS WITH 5/16"x1-5/8" LAG SCREWS (9) LAG SCREWS PER SIDE UP TO 7'0" HIGH AND (10) LAG SCREWS PER SIDE UP TO 8'0" HIGH.
- B) THE METHOD OF ATTACHMENT TO THE SUPPORTING STRUCTURE OF THE PRESSURE TREATED 2x6 WOOD JAMBS SHALL BE APPROVED BY THE PROFESSIONAL OF RECORD FOR THE STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.
- C) PREPARATION OF JAMBS BY OTHERS.
- D) ALL MOUNTING OF TRACK, ANGLES, HORIZONTAL TRACK SUPPORTS, AND ALL OTHER DOOR HARDWARE TO BE INSTALLED PER COLLIER/FORTRESS INSTALLATION INSTRUCTIONS SUPPLIED WITH DOOR SYSTEM UNLESS OTHERWISE NOTED.

**FORTRESS ALUMINUM C-CHANNEL(S) STORAGE**

- A) ALUMINUM FORTRESS ALUMINUM C-CHANNEL(S) SHALL BE STORED IN A CONSPICUOUS PLACE WITH EASY AND IMMEDIATE ACCESS SO THEY CAN BE REACHED AND INSTALLED ANY TIME HURRICANE WINDS ARE PRESENT.
- B) THE DOOR WITHOUT THE FORTRESS ALUMINUM C-CHANNEL(S) DOES NOT PROVIDE PROTECTION AGAINST HURRICANE WINDS.
- C) THE FORTRESS ALUMINUM C-CHANNEL(S) SHALL BE INSTALLED TO ACHIEVE DESIGN WIND LOADS.

**GENERAL NOTES**

- A) MINIMUM EMBEDMENT OF CONCRETE ANCHORS - 1 1/4"
- B) MINIMUM EMBEDMENT OF LAG SCREWS INTO WOOD - 1 1/2"



APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE **AUG 30 2001**  
BY *[Signature]*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. **01-0410.03**

*[Signature]* 8/3/01  
Frank A. Fore, P.E.  
042561

DESIGN LOAD +50 -52 PSF

 A DIVISION OF SYSTEM DESIGN & MFG. INC. 	<b>Collier/Fortress Level 3 Wind Load Hardware Package</b>		Drawing Number CFL3WLP-188
	48 Dalketh Drive Brantford, Ontario N3P 1N6 Phone: 519-759-8090 Fax: 519-759-4912	4200 Westroads Drive West Palm Beach, FL 33407 Phone: 561-863-0650 Fax: 561-881-5635	8/02/01
Collier / Fortress All Rights Reserved. The arrangement depicted herein are the sole property of Collier/Fortress and may not be reproduced in any form without written permission.			Sheet No. 2 of 2