MIAMI-DADE COUNTY
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) 372-6339
**www.miamidade.gov/buldingcode**

# NOTICE OF ACCEPTANCE (NOA)

**Clopay Building Products Company**
**8585 Duke Boulevard**
**Mason, OH 45040**

**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: Steel Sectional Garage Door up to 9' wide w/ Optional Impact Resistant Lites**

**APPROVAL DOCUMENT:** Drawing No. **101706**, titled "Single-Car Steel Pan Garage Door with Opt. Impact Resist. Lites", sheet 1 of 1, dated 11/18/96, with last revision 7, dated 07/2008, prepared by Clopay Building Products Company, signed and sealed by Scott Hamilton, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**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.

**LIMITATION**: 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 specimen were selected from coils at the manufacturer production facilities. And a notarized statement from the manufacturer that only coils with yield strength of 34900 psi or more shall be used to make door panels for Dade County under this Notice of Acceptance.

**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 # 03-0520.03** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

8/4/08

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### A. DRAWINGS

1. Drawing No. **101706**, titled "Single-Car Steel Pan Garage Door with Opt. Impact Resist. Lites", sheet 1 of 1, dated 11/18/96, with last revision 7, dated 07/2008, prepared by Clopay Building Products Company, signed and sealed by Scott Hamilton, P.E.

### B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
   5) Tensile Test per ASTM E8

   Along with marked-up drawings and installation diagram of Clopay 9'x 8', 24 ga. steel garage door Model 94W9 with windows, prepared by American Test Lab, Inc., Test Report No. **ATLNC 0610.01-08**, dated 07/16/08, signed and sealed by David W. Johnson, P.E.
2. Test report on Salt Spray per ASTM B117 of painted G40 galvanized coated panels, prepared by Stork Materials Technology, Test Report No. **30160-04-63365**, dated 01/26/05, signed by John D. Lee, P.E.

### C. CALCULATIONS

1. Jamb anchor calculations, complying with FBC-2004, prepared by Clopay Building Products Company, dated 07/22/08, signed and sealed by Scott Hamilton, P.E.

### D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)

8/4/08

**Carlos M. Utrera, P.E.**
**Product Control Examiner**
**NOA No 08-0724.04**
**Expiration Date: September 25, 2013**
**Approval Date: August 28, 2008**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### E. MATERIAL CERTIFICATIONS

1. Test report on Accelerated Weathering Using Xenon Arc Light Apparatus per ASTM G155 of Lexan SLX2432T Clear Polycarbonate, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-06-A002**, dated 12/04/06, signed by Rafael E. Droz-Seda, P.E.
2. Test report on Self-Ignition Temperature per ASTM D1929, Rate of Burn per ASTM D635, and Smoke Density per ASTM D2843 of the Lexan Plastic, prepared by ETC Laboratories, Test Report No. **ETC-06-1024-17496.0,** dated 05/26/06, signed by Joseph L. Doldan, P.E.

### F. STATEMENTS

1. Statement letter of conformance issued by Clopay Building Products Company, dated 07/18/08, signed and sealed by Scott Hamilton, P.E.
2. Statement letter of no financial interest issued by Clopay Building Products Company, dated 07/18/08, signed and sealed by Scott Hamilton, P.E.

### G. OTHER

1. Notice of Acceptance No. **03-0520.03**, issued to Clopay Building Products Company, approved on 09/04/03 and expiring on 09/25/08.

8/4/08

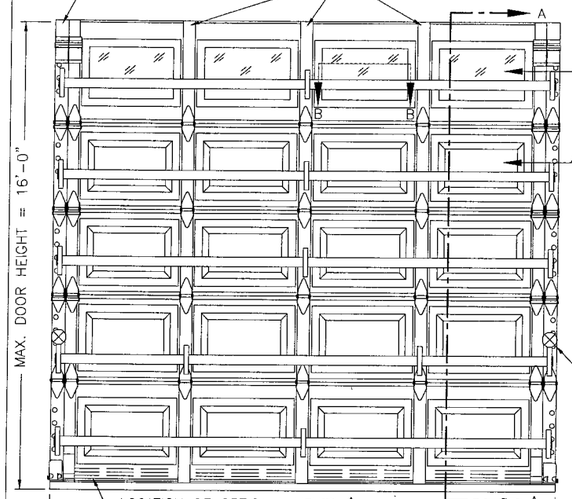
**Carlos M. Utrera, P.E.**
**Product Control Examiner**
**NOA No 08-0724.04**
**Expiration Date: September 25, 2013**
**Approval Date: August 28, 2008**

# CLOPAY MODELS 84A, 93, 94, 98; IDEAL MODELS 4RST, 4F; HOLMES MODELS 48, 48B

16 GA. GALVANIZED END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM [(2) AT TOP INSIDE, (2) BOTTOM INSIDE, (4) ALONG OUTSIDE EDGE OF 18" SECTIONS & (6) ALONG OUTSIDE EDGE OF 21" SECTIONS] AND SEPARATE 18 GA. GALV. INNER DOUBLE END STILES ATTACHED TO TOP AND BOTTOM RAIL WITH PATENTED TOG-L-LOC SYSTEM.

ONE INTERMEDIATE STILE BETWEEN EACH EMBOSS LOCATION. ATTACHED W/ PATENTED TOG-L-LOC SYSTEM (TOP & BOT) AND URETHANE ADHESIVE (ALONG CENTER).

ONE ROW OF IMPACT-RESISTANT GLAZING IN EITHER TOP SECTION (SHOWN) OR NEXT-TO-THE-TOP SECTION (NOT SHOWN).
MAX. GLAZING SIZE IS 18-1/2" x 11".
GLAZING IS INJECTION MOLDED GE LEXAN SLX2432T, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606.
SEE SECTION B-B FOR ASSEMBLY DETAILS.




LOCK POSITION (BOTH SIDES). SEE LAYOUT OF EACH LOCK FOR DETAILS.

LOCATION OF OPTIONAL VENTS. (MAX SIZE: 60 SQ. INCHES)

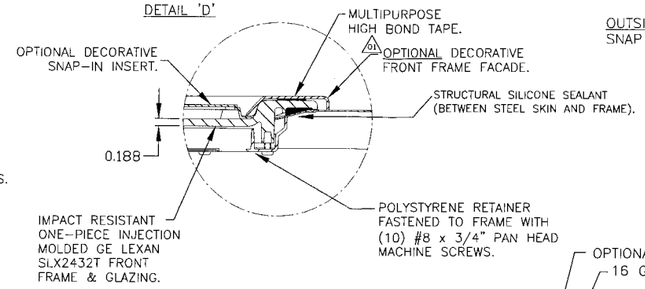
MAX. DOOR WIDTH = 9'-0"

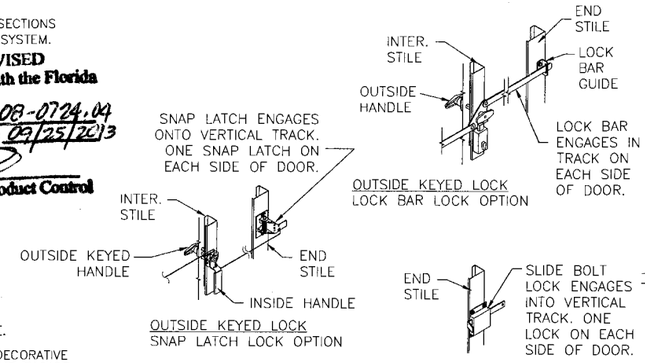
INSIDE ELEVATION

**PRODUCT REVISED**
**as complying with the Florida Building Code**
**Acceptance No** 08-0724.04
**Expiration Date** 09/25/2013
**By** [signature]
**Miami-Dade Product Control Division**

## SECTION B-B

DETAIL 'D'

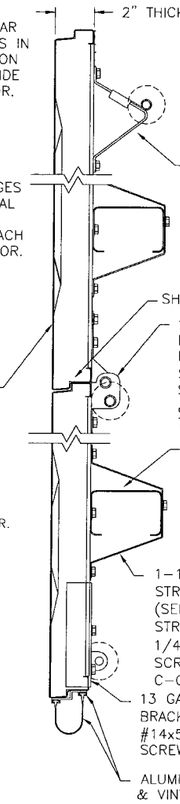


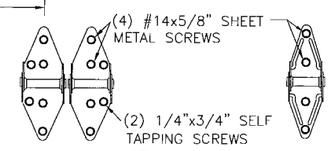




24 GA. (0.0239" MIN. THICK) DDS STEEL EXTERIOR SKIN WITH G-40 GALVANIZING, BAKED-ON PRIMER AND A BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN. (ASTM No. A653).

| REV | DATE | DESCRIPTION |
|---|---|---|
| 2 | 8/18/97 | ADD VENT SIZE; ADD G-60 |
| 3 | 3/2001 | G-40 MIN. WAS G-60 |
| 4 | 5/2003 | ADD EXTENDED HEIGHT MODELS |
| 5 | 8/2003 | REVISED LOCK NOTE |
| 6 | 6/2008 | ADDED OPTIONAL LITES; INCREASE DESIGN LOAD |
| 7 | 7/2008 | REVISED MAX HT; MIN YIELD; ADDED 48B. |

## SECTION A-A



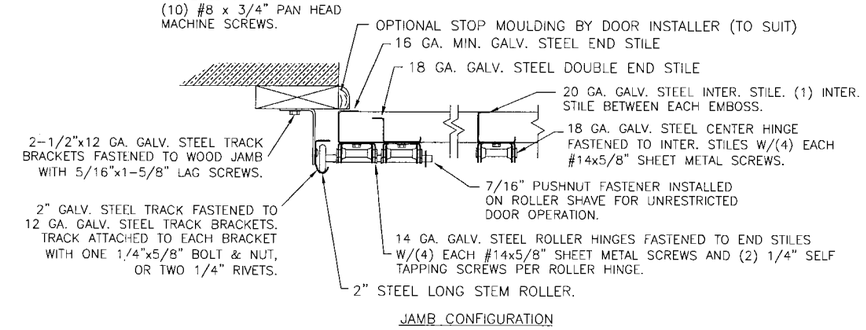

14 GA. END HINGE
VIEW "A"

18 GA. INTERMEDIATE HINGE
VIEW "B"

| DOOR HEIGHT | NUMBER OF SECTIONS * |
|---|---|
| 6'0" TO 7'0" | 4 |
| 7'6" TO 8'0" | 5 |
| 9'0" TO 10'6" | 6 |
| 10'9" TO 12'3" | 7 |
| 12'6" TO 14'0" | 8 |
| 14'3" TO 15'9" | 9 |
| 16'0" | 10 |

* SECTIONS ARE EITHER 18" OR 21"

TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.




JAMB CONFIGURATION

## JAMB TO SUPPORTING STRUCTURE ATTACHMENT

NOTES:
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
3. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

### WOOD FRAME BUILDINGS

STUD WALLS OF DOOR OPENING SHALL BE FRAMED SOLID BY NOT LESS THAN (3) 2x4 [OPENINGS UP TO 9'0"W] OR (3) 2x6 [OPENINGS UP TO 18'0"W] PRESSURE TREATED SYP (GRADE #2 OR BETTER) WOOD STUDS OF A STRESS GRADE NOT LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS IN BENDING ($F_b$). STUD WALLS TO BE CONTINUOUS FROM FOOTING TO TIE BEAMS.

### BLOCK WALL OR CONCRETE

2x6 SYP (GRADE #2 OR BETTER) WOOD JAMB SHALL BE ANCHORED TO GROUT REINFORCED BLOCK WALL OR CONCRETE COLUMN. BLOCK WALL CELLS SHALL BE FILLED WITH CONCRETE AND REINFORCED WITH REINFORCING BARS EXTENDING INTO THE FOOTING AND INTO TIE BEAMS. ALL BARS SHALL BE CONTINUOUS FROM THE TIE BEAMS TO FOOTING PER BLOCK WALL OR CONCRETE COLUMN. BLOCK WALLS AND CONCRETE COLUMNS TO BE DESIGNED BY THE BUILDING ENGINEER OR ARCHITECT OF RECORD.

### 2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

(NOT TO BE USED FOR ATTACHMENT OF TRACK BRACKETS)

| BUILDING TYPE | FASTENER TYPE | MAXIMUM * ON CENTER DISTANCE BETWEEN FASTENERS | STEEL WASHERS REQUIRED? |
|---|---|---|---|
| C-90 BLOCK (HOLLOW OR GROUTED) | 1/4" x 3" (1-1/4" EMBED) ITW TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE) | 7" | 1" O.D. |
| 2,000 PSI MIN. CONCRETE | 1/4" x 4" (1-3/4" EMBED) ITW TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE) | 14-1/4" | 1" O.D. |
| 3,000 PSI MIN. CONCRETE | 1/2" x 4" (2-1/4" EMBED) SIMPSON STRONG-TIE WEDGE-ALL WEDGE ANCHOR (2" MIN. EDGE DISTANCE) | 14-1/2" | INCLUDED |
| 2,000 PSI MIN. CONCRETE | 1/2" x 4" (2-1/2" EMBED) WEJ-IT SLEEVE ANCHOR (2-1/2" MIN. EDGE DISTANCE) | 16" | INCLUDED |
| WOOD FRAME | 1/2" x 4" (1-5/8" EMBED) LAG SCREW (ASTM A307, GRADE A) (2-1/2" MIN. EDGE DISTANCE) | 16-3/4" | 1" O.D. |

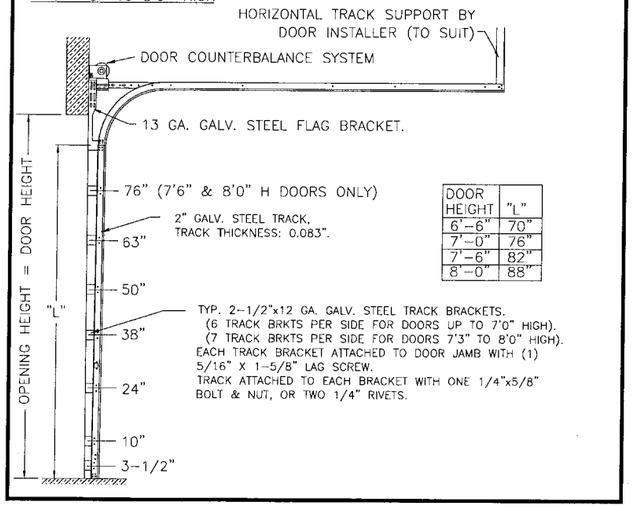
* - FIRST ANCHOR/SCREW STARTING FROM BOTTOM AT NO MORE THAN HALF OF MAXIMUM ON CENTER DISTANCE. HIGHEST ANCHOR/SCREW INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING HEIGHT.


7/22/08 SCOTT HAMILTON, P.E.
FLORIDA P.E. No. 63286


DESIGN LOADS: +62.0 PSF & -72.0 PSF.

TRACK CONFIGURATION

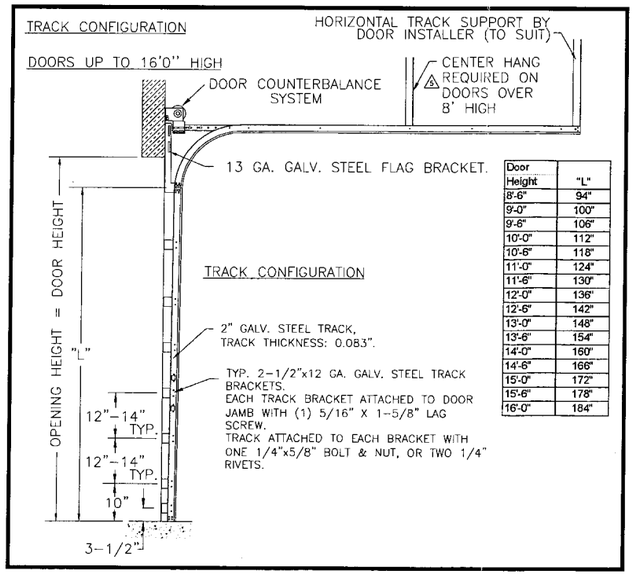
DOORS UP TO 8'0" HIGH




| DOOR HEIGHT | "L" |
|---|---|
| 6'-6" | 70" |
| 7'-0" | 76" |
| 7'-6" | 82" |
| 8'-0" | 88" |

TRACK CONFIGURATION

DOORS UP TO 16'0" HIGH




TRACK CONFIGURATION

| Door Height | "L" |
|---|---|
| 8'-6" | 94" |
| 9'-0" | 100" |
| 9'-6" | 106" |
| 10'-0" | 112" |
| 10'-6" | 118" |
| 11'-0" | 124" |
| 11'-6" | 130" |
| 12'-0" | 136" |
| 12'-6" | 142" |
| 13'-0" | 148" |
| 13'-6" | 154" |
| 14'-0" | 160" |
| 14'-6" | 166" |
| 15'-0" | 172" |
| 15'-6" | 178" |
| 16'-0" | 184" |


Clopay Building Products Company
CLOPAY BUILDING PRODUCTS COMPANY
8585 DUKE BLVD.
MASON, OH 45040
(513) 770 -- 4800


| | | | |
|---|---|---|---|
| MANUFACTURING PRODUCT CODE: PAN-2F143 | CLOPAY WINDLOAD RATING: W9 | MAXIMUM DOOR SIZE: 9'0"W x 16'0"H | |
| DATE: 11/18/96 | DESCRIPTION: SINGLE-CAR STEEL PAN GARAGE DOOR WITH OPT. IMPACT RESIST. LITES | | |
| DRAWN BY: MWW | | | |
| CHECKED BY: | B | DRAWING NUMBER: 101706 | VER: MD |