

'CLASSIC' RAISED PANEL EMBOSS DOORS								
MODELS	24 GA	24 GA INS	25 GA	25 GA INS	24 GA	24 GA INS	25 GA	25 GA INS
CLOPAY	84A, 94	--	73, 75	1500, 190	96	96V	75L, 76	76V
IDEAL	4RST, 4F*	4RSF	6RST	6RSF	--	--	2RST	--
HOLMES	48, 48B	--	42, 42B	55, 55S	--	--	--	--
SHORT PANEL					LONG PANEL			

* - MODEL 4F IS FLUSH

'CARRIAGE HOUSE' RAISED PANEL SHORT EMBOSS DOORS		
MODELS	25 GA	24 GA
CLOPAY 'GALLERY'	GD5S, GR5S	GD4S, GR4S
HOLMES 'ARTISTRY'	AR5S	AR4S
IDEAL 'CARRIAGE HOUSE'	ED5S	ED4S

SHEET:
1 OF 5

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
05	-	8/5/20	-	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART
06	-	12/27/23	-	JDW	ADDED 24 GA MODELS.
07	-	2/26/24	-	JDW	ADDED MODELS 96 AND 96V.

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

GLAZING SHOWN IN TOP SECTION.

OPTIONAL GLAZING MAY BE STANDARD OR IMPACT RESISTANT GLAZING. SEE SECTION B-B ON SHEET TWO FOR DETAILS. (GLAZING SHOWN IN INTERMEDIATE SECTION.)

VIEW "B" (SEE SHEET THREE).

VIEW "C" (SEE SHEET THREE).

16 GA. END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM (TOP, BOTTOM & CENTER). ATTACHED TO TOP AND BOTTOM RAIL WITH PATENTED TOG-L-LOC SYSTEM.

TWO POINT LOCKING INTO TRACK.

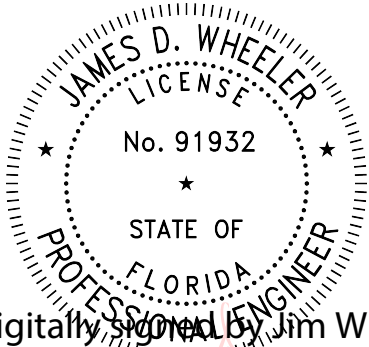
(2) LHR TOP BRACKETS USED AS INNER BOTTOM BRACKET.
(1) 3-IN ROLLER CARRIER (P/N 0120394) USED WITH 3" TRACK.

OPTIONAL OUTSIDE KEYED LOCK POSITION.

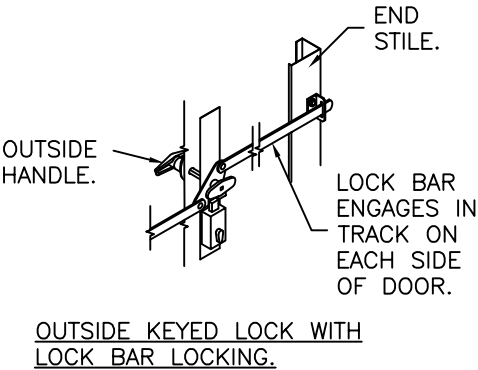
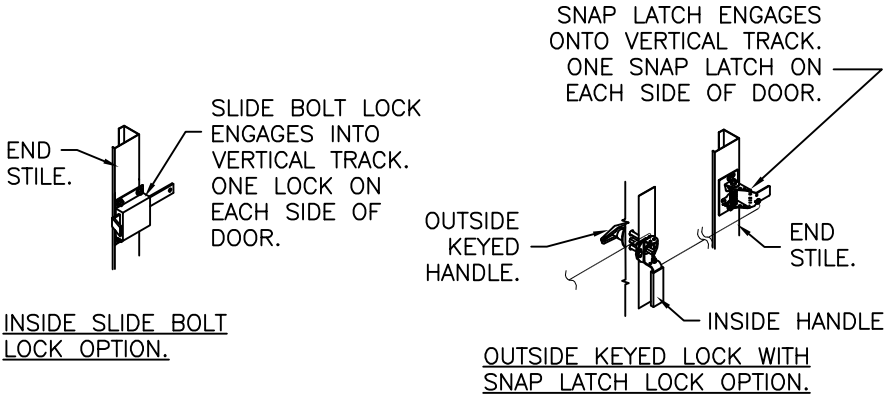
MAX. DOOR WIDTH = 18'-2"
INSIDE ELEVATIONS

LOCATION OF OPTIONAL VENTS. TOTAL VENT OPENINGS: 60 IN² PER VEHICLE.

DOOR HEIGHT	# OF SECTIONS
UP TO 7'0"	4
7'3" TO 8'9"	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
MAX SECTION HEIGHT: 21'	



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Date: 2024.02.27 18:15:51 -05'00'



DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

DESIGN LOADS: +36.0 P.S.F. & -42.0 P.S.F.
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Unless Stated Otherwise
TOLERANCES are
.0 = ±.031
.00 = ±.015
.000 = ±.005
.0000 = ±.001
Degrees = ±1/2°
Unless Stated Otherwise
DIMENSIONS ARE IN INCHES.

Clopay
CORPORATION

8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)

DRAWN BY: SH

DATE: 11/6/12

SCALE: NTS

DWG. B

CHECKED BY: SH

DATE: 11/8/12

SHEET 1 OF 5

SIZE

DWG. NO.: 104761-A/B

VER: IBC

'CLASSIC' RAISED PANEL EMBOSS DOORS								
MODELS	24 GA	24 GA INS	25 GA	25 GA INS	24 GA	24 GA INS	25 GA	25 GA INS
CLOPAY	84A, 94	--	73, 75	1500, 190	96	96V	75L, 76	76V
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HOLMES	48, 48B	--	42, 42B	55, 55S	--	--	--	--
SHORT PANEL					LONG PANEL			

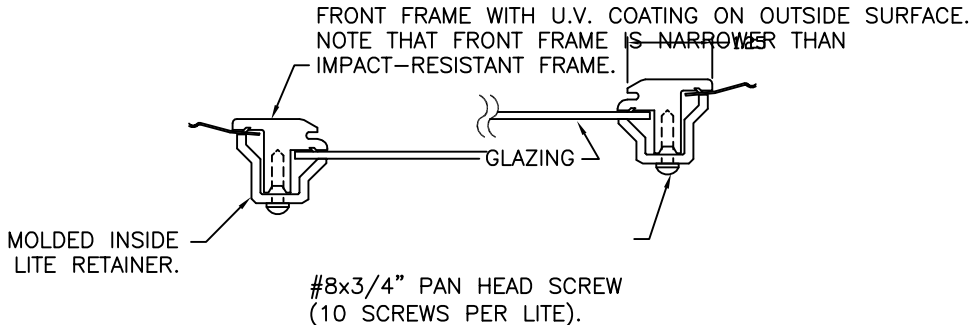
* - MODEL 4F IS FLUSH

'CARRIAGE HOUSE' RAISED PANEL SHORT EMBOSS DOORS		
MODELS	25 GA	24 GA
CLOPAY 'GALLERY'	GD5S, GR5S	GD4S, GR4S
HOLMES 'ARTISTRY'	AR5S	AR4S
IDEAL 'CARRIAGE HOUSE'	ED5S	ED4S

SHEET: 2 OF 4	REVISIONS					
	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
	07	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

STANDARD ASSEMBLY CONSTRUCTION:
OPTIONAL DSB OR 1/8" ACYRLIC LITES AVAILABLE. OPTIONAL ACRYLIC GLAZING IS PLASKOLITE OPTIX OR LUCITE CP APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606.
THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC).

SECTION B-B (NON-IMPACT RESISTANT GLAZING OPTION)



STANDARD ASSEMBLY DETAILS
DRAWING 104761-B

DESIGN ENGINEER:
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FLORIDA LICENSE No. 91932

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8585 Duke Boulevard
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Fax No. 513-770-4853

DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)			
DRAWN BY: SH	DATE: 11/6/12	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: 11/8/12	SHEET 2 OF 5	
DWG. NO.: 104761-A/B		VER: IBC	

MANUFACTURING PRODUCT CODE
PAN-2F153

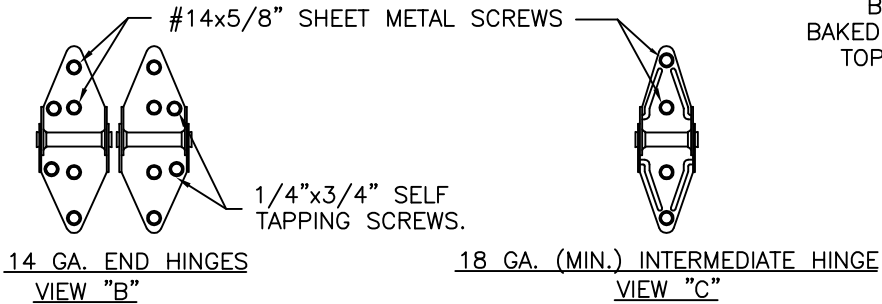
PART NO.: N/A

WINDLOAD RATING
W6 DP36

'CLASSIC' RAISED PANEL EMBOSS DOORS								
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IDEAL	4RST, 4F*	4RSF	6RST	6RSF	--	--	2RST	--
HOLMES	48, 48B	--	42, 42B	55, 55S	--	--	--	--
SHORT PANEL					LONG PANEL			

* - MODEL 4F IS FLUSH

'CARRIAGE HOUSE' RAISED PANEL SHORT EMBOSS DOORS		
MODELS	25 GA	24 GA
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HOLMES 'ARTISTRY'	AR5S	AR4S
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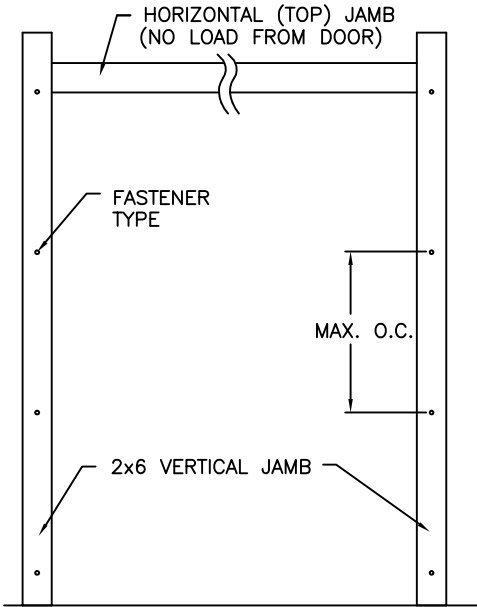


14 GA. END HINGES

18 GA. (MIN.) INTERMEDIATE HINGE

VIEW "B"

VIEW "C"



JAMB TO SUPPORTING STRUCTURE ATTACHMENT

NOTES:

- 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.
- EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +342 LB & -378 LB. PER LINEAR FOOT OF JAMB.
- ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
- 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.

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT
(NOT TO BE USED FOR ATTACHMENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
BLOCK WALL	1/4" x 1-1/4" MIN. EMBED TAPCON CONCRETE ANCHOR	6-3/4"	1" O.D.
3000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	7-1/4"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" X 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	14-3/4"	INCLUDED
4000 PSI MIN. CONCRETE	3/8" X 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	15-3/4"	1" O.D.

* FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.

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SHEET: 3 OF 4	REVISIONS					
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	07	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

25 GA. (0.019" 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.

(2) 12 GA. GALV. STEEL TOP ROLLER BRACKETS (2-1/2" x 5-3/8"). EACH BRACKET ATTACHED W/(4) #14x5/8" SHEET METAL SCREWS. ADJUSTABLE SLIDE ATTACHED TO TOP BRACKET WITH (2) 1/4"x1/2" BOLTS AND NUTS PER BRACKET.

SHIP LAP JOINTS

14 GA. MIN. GALV. ROLLER HINGE. EACH HINGE FASTENED TO END STILES W/(4) #14x5/8" SHEET METAL AND (2) 1/4"x3/4" SELF TAPPING SCREWS. SEE VIEW "B".

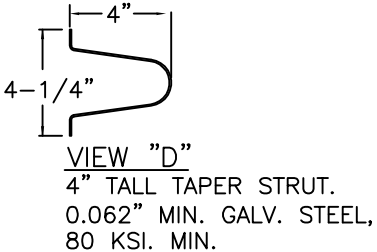
3" TALL X 20 GA. (50 KSI GALV. MIN.) STEEL U-BARS. ONE U-BAR ON EVERY OTHER SECTION. ATTACH WITH TWO 1/4"x3/4" SELF TAPPING SCREWS PER STILE.

ONE 4" T-STRUT PER SECTION. (SEE VIEW "D") EACH T-STRUT ATTACHED AT EACH STILE LOCATION WITH (2) 1/4"x3/4" SELF TAPPING SCREWS.

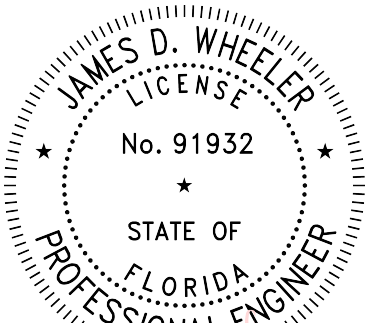
12 GA. MIN. GALV. STEEL BOTTOM BRACKET ATTACHED WITH (2) #14x5/8" SHEET METAL SCREWS.

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP.

SECTION A-A (SIDE VIEW)



VIEW "D"



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CHECKED BY: SH	DATE: 11/8/12	SHEET 3 OF 5	
DWG. NO.: 104761-A/B	VER: IBC		

MANUFACTURING PRODUCT CODE
PAN-2F153

PART NO.: N/A

WINDLOAD RATING
W6 DP36

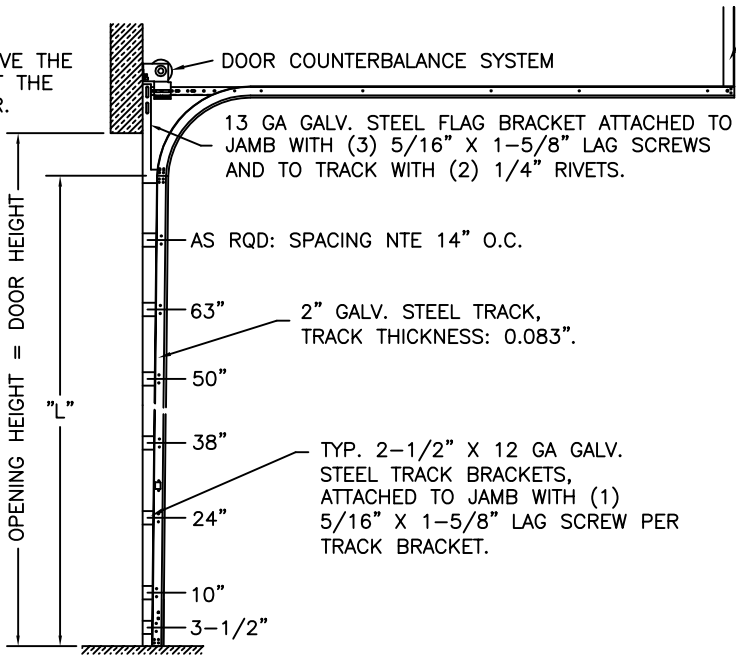
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IDEAL 'CARRIAGE HOUSE'	ED5S	ED4S

NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.

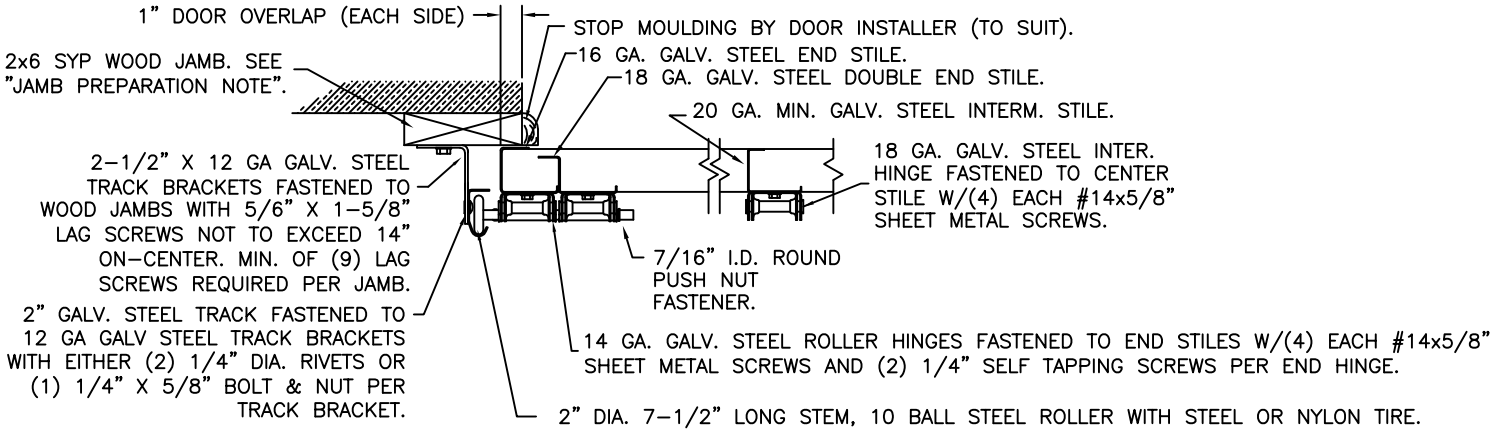
2" TRACK CONFIGURATION.



HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).

JAMB CONFIGURATION DOORS UP TO 800 LBS.

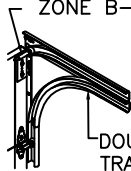
DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"
12'-6"	142"
13'-0"	148"
13'-6"	154"
14'-0"	160"
14'-6"	166"
15'-0"	172"
15'-6"	178"
16'-0"	184"



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

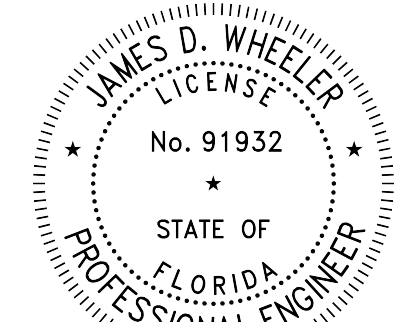
LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.



DOUBLE TRACK LOW HEADROOM OPTION (AVAIL. FOR BOTH 2" AND 3" TRACK)

3" TRACK ALSO AVAILABLE.

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DWG. NO.: 104761-A/B	VER: IBC		

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PART NO.: N/A

WINDLOAD RATING
W6 DP36

2 FLORIDA PRODUCT APPROVAL 16107