

Strut Locations	
7'	8'
3"	3"
18.5"	18.5"
23.5"	23.5"
39.5"	36.5"
44.5"	41.5"
60.5"	54.5"
65.5"	59.5"
83"	72.5"
	77.5"
	95"

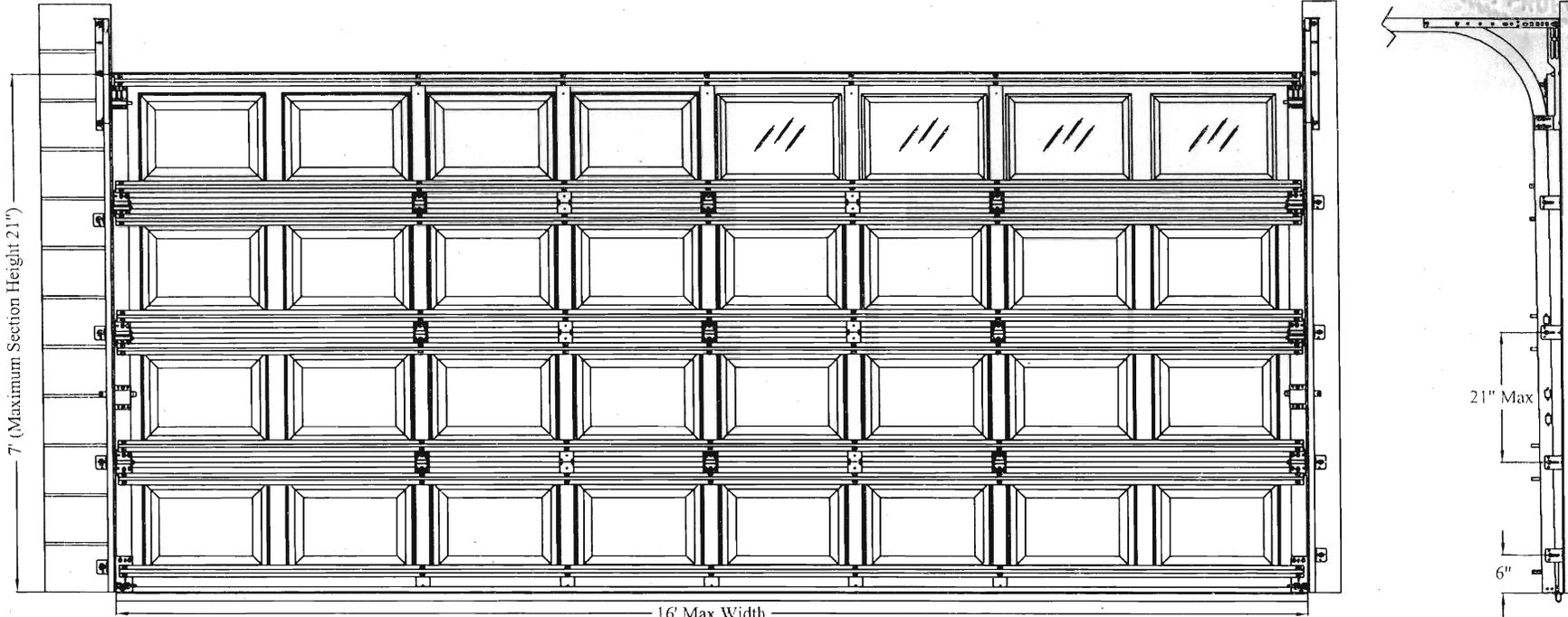
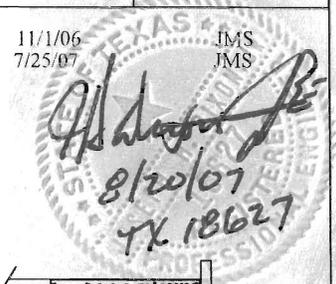
Note: Maximum door height is 14'. Consult Strut and Section Location Chart or manufacturer for details on door heights not listed.

Track Brackets	
7'	8'
4	5

Note: Detail views are shown on sheet 2.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
B	Changed strut locations, removed one track bracket, reduced track gauge	11/1/06	JMS
C	Added 500 series models, commercial top fixtures, qualified concrete jamb, changed strut type and quantity, removed extra end stile screws	7/25/07	JMS



Design pressures meet or exceed those required by ASCE 7-02 and 7-05 for the following conditions:

- V = 130 MPH exposure category B and mean roof height of 30' or less
- V = 110 MPH exposure category C and mean roof height of 30' or less

The use of the wind speeds shown is limited to those cases meeting all of the following additional conditions:

1. Building category II
2. 2 ft or less of the door width in the end zone of the building (zone 5)
3. Importance factor = 1.0
4. Topographic factor = 1.0
5. Directional factor = .85
6. Doors with glazed sections are not qualified for use in windborne debris regions

Description: 500, 400 series 2" open back steel garage door with optional polystyrene insulation (.017" min. pan)

Design Pressure: +25.8/-28.9  
Test Pressure +38.7/-43.35

Tested per the applicable requirements of ANSI/DASMA 108-2005

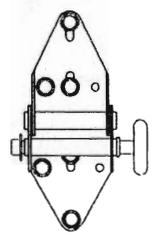
DRAWN BY:  
John M. Stroede 7/25/07

APPROVED BY:  
John M. Stroede 7/25/07

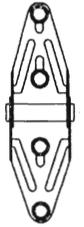
doorLink Manufacturing, Inc.  
1501 Taney St.  
North Kansas City, MO 64116

TITLE  
Windload Rated Residential Garage Door  
Models 510, 410, 430, 450, 470

DRAWING NUMBER	REVISION
RO16C-130	C
SIZE A	SCALE N/A
SHEET 1 of 2	



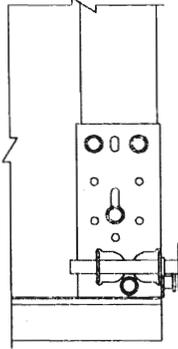
**End Hinge**  
14 gauge galvanized steel end hinge attached with four 1/4" x 3/4" screws and two 1/4" x 5/8" self tapping screws.



**Center Hinge**  
18 gauge galvanized steel narrow or wide body hinge attached with four 1/4" x 3/4" screws.

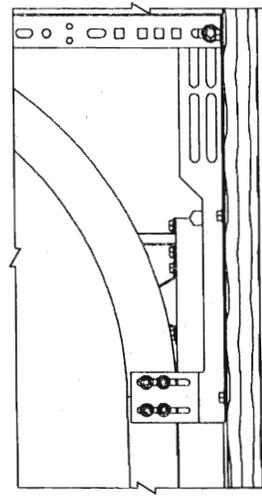
**Roller**  
Minimum 7 ball steel roller or 10 ball nylon roller with 4" stem and push nuts on all hinge rollers.

**End and Center Stiles**  
20 gauge galvanized steel stiles attached to section with two rivets or two #8 x 1/2" pan head sheet metal screw on each end.



**Bottom Bracket**  
13 gauge galvanized steel bottom bracket attached with four 1/4" x 5/8" self-tapping screws (push nut not required on roller).

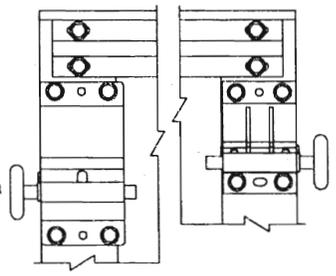
**Bottom Weatherstrip**  
Aluminum extrusion with vinyl insert.



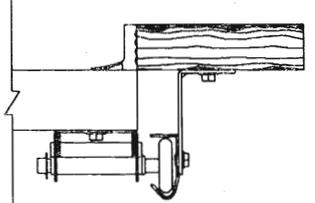
**Flag Bracket**  
12 gauge galvanized steel flag bracket attached to wood jamb with three 5/16" x 1 5/8" wood lag screws (shown) or to concrete jamb with three 1/4" x 1 3/4" Tapcon with 1" diameter washer and to the horizontal and vertical tracks with two 1/4" x 3/4" track bolts and nuts each.

**Horizontal Track and Angle**  
Horizontal track and angle to suit with suitable back hang.

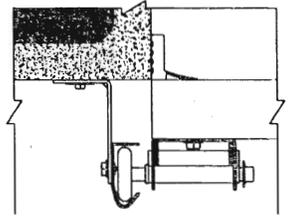
**Vertical Track**  
2" galvanized steel track with a minimum thickness of .056".



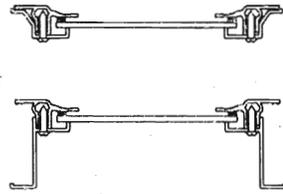
**Top Fixture**  
16 gauge galvanized steel top fixture with two bolt roller carrier or 12 gauge galvanized steel top fixture with single bolt roller carrier attached to door with four 1/4" x 5/8" self-tapping screws (push nut not required on roller).



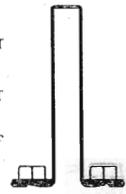
**Jamba**  
Vertical jamba are to be 2x6 #2 Spruce-Pine-Fir (S-P-F) lumber or equivalent depending on regional availability, 2000 psi minimum concrete, or filled 8x8x16 concrete masonry unit (CMU) (minimum edge distance for concrete is 2 1/4"). Note: Preparation of jamba by others, and supporting structural elements must be capable of withstanding the rated windload.



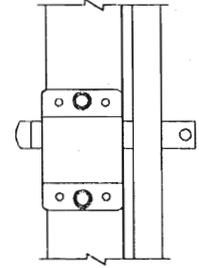
**Stop Molding**  
Stop molding is required, or door must overlap jamba by 1/4".



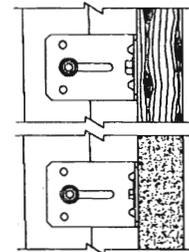
**Windows (optional)**  
Plastic screw together window frame for either .100" acrylic or DSB glass with a maximum opening of 18" x 12 1/2".



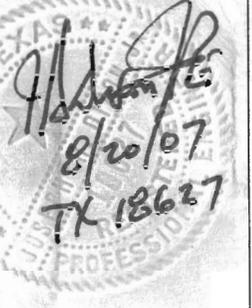
**Struts**  
3" x 1 7/8" 20 gauge 50 ksi hat strut attached with two 1/4" x 5/8" self-tapping screws per stile.



**Locking Mechanism**  
Doors must have either an electronic operator or locking device(s) installed (inside slide lock shown, other lock types permitted) that engage(s) both vertical tracks.



**Track Brackets**  
2 1/4" wide x 12 gauge galvanized steel track bracket attached to wood jamb with one 5/16" x 1 5/8" wood lag screw or to concrete jamb with 1/4" x 1 3/4" Tapcon with 1" diameter washer and to vertical track with one 1/4" x 3/4" track bolt and nut Note: Center distance between track brackets not to exceed 21".



**doorLink Manufacturing, Inc.**  
1501 Taney St.  
North Kansas City, MO 64116

**TITLE**  
Windload Rated Residential Garage Door  
Models 510, 410, 430, 450, 470

**DRAWN BY:**  
John M. Stroede 7/25/07  
**APPROVED BY:**  
John M. Stroede 7/25/07

<b>DRAWING NUMBER</b> RO16C-130		<b>REVISION</b> C	
<b>SIZE</b> A	<b>SCALE</b> N/A	<b>SHEET</b> 2 of 2	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	Changed strut locations, removed one track bracket, reduced track gauge	11/1/06	JMS
C	Added 500 series models, commercial top fixtures, qualified concrete jamb, changed strut type and quantity, removed extra end stile screws	7/25/07	JMS

Strut and Section Locations

RO16C-130 16' 500, 400 Series Windload Door +25.8/-28.9 psf																									
Door Height	Section Heights			Strut Locations											Track Brackets										
6-0	18	18	18	18	3	15.5	20.5	33.5	51.5	56.5	71				4										
6-3	21	18	18	18	3	18.5	23.5	36.5	41.5	54.5	59.5	74			4										
6-6	21	18	18	21	3	18.5	23.5	36.5	41.5	54.5	59.5	77			4										
6-9	21	21	18	21	3	18.5	23.5	39.5	44.5	57.5	62.5	80			4										
7-0	21	21	21	21	3	18.5	23.5	39.5	44.5	60.5	65.5	83			4										
7-6	18	18	18	18	18	3	15.5	20.5	33.5	38.5	51.5	69.5	74.5	89	5										
7-9	21	18	18	18	18	3	18.5	23.5	36.5	41.5	54.5	72.5	77.5	92	5										
8-0	21	18	18	18	21	3	18.5	23.5	36.5	41.5	54.5	59.5	72.5	77.5	95	5									
8-3	21	21	18	18	21	3	18.5	23.5	39.5	44.5	57.5	62.5	75.5	80.5	98	5									
8-6	21	21	18	21	21	3	18.5	23.5	39.5	44.5	57.5	62.5	78.5	83.5	101	5									
8-9	21	21	21	21	21	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	104	5									
9-0	18	18	18	18	18	18	3	15.5	20.5	33.5	38.5	51.5	56.5	69.5	87.5	92.5	107	6							
9-3	21	18	18	18	18	18	3	18.5	23.5	36.5	41.5	54.5	59.5	72.5	90.5	95.5	110	6							
9-6	21	21	18	18	18	18	3	18.5	23.5	39.5	44.5	57.5	62.5	75.5	93.5	98.5	113	6							
9-9	21	21	21	18	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	78.5	83.5	96.5	98.5	116	6						
10-0	21	21	21	21	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	99.5	101.5	119	6						
10-3	21	21	21	21	21	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	104.5	122	6						
10-6	21	21	21	21	21	21	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	107.5	125	6						
10-9	21	18	18	18	18	18	18	3	18.5	23.5	36.5	41.5	54.5	59.5	72.5	77.5	90.5	108.5	113.5	128	7				
11-0	21	21	18	18	18	18	18	3	18.5	23.5	39.5	44.5	57.5	62.5	75.5	80.5	93.5	111.5	116.5	131	7				
11-3	21	21	21	18	18	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	78.5	83.5	96.5	114.5	119.5	134	7				
11-6	21	21	21	21	18	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	99.5	101.5	117.5	122.5	137	7			
11-9	21	21	21	21	21	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	104.5	120.5	125.5	140	7			
12-0	21	21	21	21	21	21	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	107.5	123.5	128.5	143	7			
12-3	21	21	21	21	21	21	21	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	107.5	123.5	128.5	146	7			
12-6	21	21	18	18	18	18	18	18	3	18.5	23.5	39.5	44.5	57.5	62.5	75.5	80.5	93.5	107.5	111.5	129.5	134.5	149	8	
12-9	21	21	21	18	18	18	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	78.5	83.5	96.5	98.5	114.5	132.5	137.5	152	8	
13-0	21	21	21	21	18	18	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	99.5	101.5	117.5	135.5	140.5	155	8	
13-3	21	21	21	21	21	18	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	104.5	120.5	125.5	138.5	143.5	158	8
13-6	21	21	21	21	21	21	18	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	107.5	123.5	128.5	141.5	146.5	161	8
13-9	21	21	21	21	21	21	21	18	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	107.5	123.5	128.5	144.5	149.5	164	8
14-0	21	21	21	21	21	21	21	21	3	18.5	23.5	39.5	44.5	60.5	65.5	81.5	86.5	102.5	107.5	123.5	128.5	144.5	149.5	167	8

- Notes: (1) Sequential sections left to right, in inches from bottom of door  
 (2) Individual strut locations in inches from bottom of door  
 (3) Section stacking order may be changed to accommodate window section placement or other factors. Strut locations shall be adjusted accordingly.

8/20/07  
TX-18627