

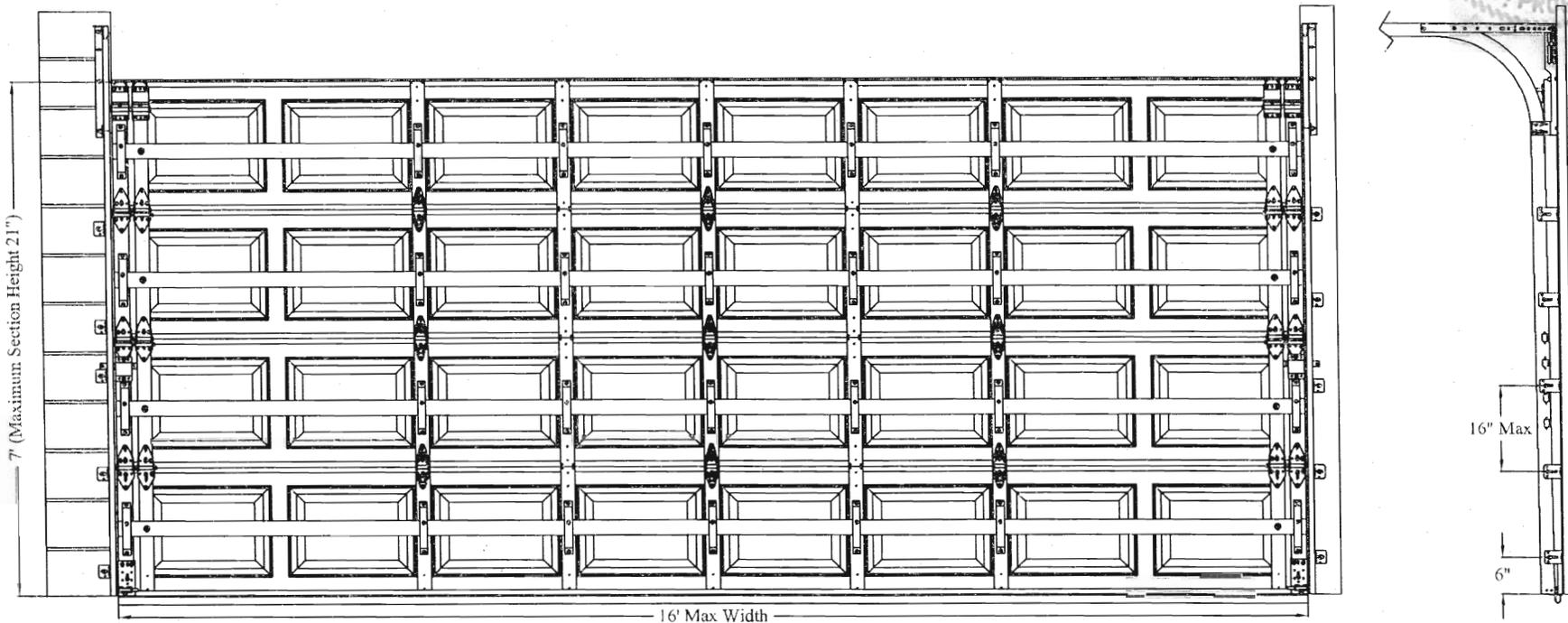
Strut Locations	
7'	8'
9.75"	9.75"
30.75"	29.25"
51.75"	47.25"
72.75"	65.25"
	84.75"

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'
5	6

Note: Detail views are shown on sheet 2.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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

- V = 150 MPH exposure category B and mean roof height of 30' or less
- V = 130 MPH exposure category C and mean roof height of 25' 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: +35.0/-38.8
Test Pressure: +52.5/-58.2

Tested per the applicable requirements of ANSI/DASMA 108-02, 108-05, and ASTM E330-02

DRAWN BY:
John M. Stroede 7/25/08

APPROVED BY:
John M. Stroede 7/25/08

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

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

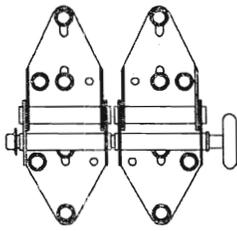
DRAWING NUMBER
RO16A-150

REVISION
A

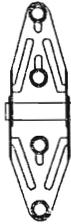
SIZE A

SCALE N/A

SHEET 1 of 2

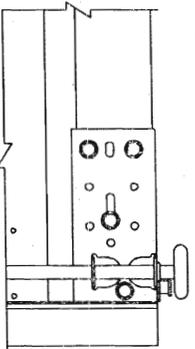


End Hinge
14 gauge galvanized steel double end hinges attached with four 1/4" x 3/4" screws and two 1/4" x 5/8" self-tapping screws each



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

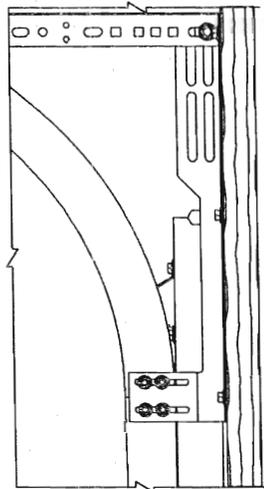
Roller
10 ball steel or nylon roller with 7" stem and push nuts on all hinge rollers



End and Center Stiles
20 gauge galvanized steel stiles attached to section with two rivets 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)

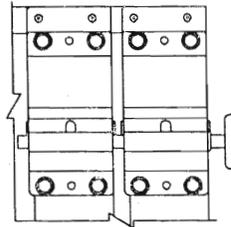
Bottom Weatherstrip
Aluminum extrusion with vinyl insert



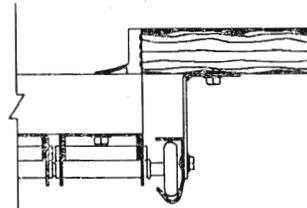
Flag Bracket
12 gauge galvanized steel flag bracket attached to wood jamb with three 5/16" x 1 5/8" wood lag screws (shown) or to concrete jamb with three 3/8" x 1 3/4" Large Diameter Tapcons and to the horizontal and vertical tracks with two 1/4" x 3/4" track bolts and nuts each

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 .060"

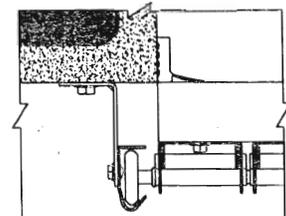


Top Fixture
12 gauge galvanized steel double top fixtures attached to door with four 1/4" x 5/8" self-tapping screws each (push nut not required on roller)



Jambs
Vertical jambs are to be 2x6 #2 Southern Yellow Pine (SYP) 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")

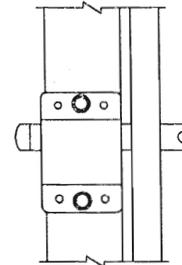
Note: Preparation of jambs by others, and supporting structural elements must be capable of withstanding the rated windload



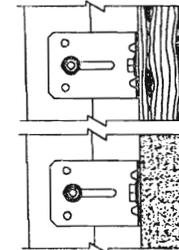
Stop Molding
Stop molding is required, or door must overlap jambs by 1/4"



C Channels
4" x 2 1/2" 16 gauge 50 ksi C channel attached with one 1 1/4" wide 16 gauge strap and four 1/4" x 5/8" self-tapping screws per stile, except no strap required on double end stiles (single attachment screw still required on double end stiles)
Note: Screws must not attach to stiles at punched knockout locations, and reinforcement on lock section may be moved down to accommodate keyed lock



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 3/8" x 1 3/4" Large Diameter Tapcon and to vertical track with one 1/4" x 3/4" track bolt and nut
Note: Center distance between track brackets not to exceed 16"

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 7/25/08

APPROVED BY:
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DRAWING NUMBER
RO16A-150

SIZE A

SCALE N/A

REVISION
A

SHEET 2 of 2

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



Strut and Section Locations

RO16A-150 16'-0" 500, 400 Series Windload Door +35.0/-38.8 psf												
Door Height	Section Heights				Strut Locations					Track Brackets		
6-0	18	18	18	18	8.25	26.25	44.25	62.25				5
6-3	21	18	18	18	9.75	29.25	47.25	65.25				5
6-6	21	18	18	21	9.75	29.25	47.25	66.75				5
6-9	21	21	18	21	9.75	30.75	50.25	69.75				5
7-0	21	21	21	21	9.75	30.75	51.75	72.75				5
7-6	18	18	18	18	8.25	26.25	44.25	62.25	80.25			6
7-9	21	18	18	18	9.75	29.25	47.25	65.25	83.25			6
8-0	21	18	18	18	9.75	29.25	47.25	65.25	84.75			6
8-3	21	21	18	18	9.75	30.75	50.25	68.25	87.75			6
8-6	21	21	18	21	9.75	30.75	50.25	69.75	90.75			7
8-9	21	21	21	21	9.75	30.75	51.75	72.75	93.75			7
9-0	18	18	18	18	8.25	26.25	44.25	62.25	80.25	98.25		7
9-3	21	18	18	18	9.75	29.25	47.25	65.25	83.25	101.25		7
9-6	21	21	18	18	9.75	30.75	50.25	68.25	86.25	104.25		7
9-9	21	21	21	18	9.75	30.75	51.75	71.25	89.25	107.25		7
10-0	21	21	21	18	9.75	30.75	51.75	72.75	92.25	110.25		8
10-3	21	21	21	21	9.75	30.75	51.75	72.75	93.75	113.25		8
10-6	21	21	21	21	9.75	30.75	51.75	72.75	93.75	114.75		8
10-9	21	18	18	18	9.75	29.25	47.25	65.25	83.25	101.25	119.25	8
11-0	21	21	18	18	9.75	30.75	50.25	68.25	86.25	104.25	122.25	8
11-3	21	21	21	18	9.75	30.75	51.75	71.25	89.25	107.25	125.25	9
11-6	21	21	21	18	9.75	30.75	51.75	72.75	92.25	110.25	128.25	9
11-9	21	21	21	21	9.75	30.75	51.75	72.75	93.75	113.25	131.25	9
12-0	21	21	21	21	9.75	30.75	51.75	72.75	93.75	114.75	134.25	9
12-3	21	21	21	21	9.75	30.75	51.75	72.75	93.75	114.75	135.75	9
12-6	21	21	18	18	9.75	30.75	50.25	68.25	86.25	104.25	122.25	9
12-9	21	21	21	18	9.75	30.75	51.75	71.25	89.25	107.25	125.25	10
13-0	21	21	21	18	9.75	30.75	51.75	72.75	92.25	110.25	128.25	10
13-3	21	21	21	21	9.75	30.75	51.75	72.75	93.75	113.25	131.25	10
13-6	21	21	21	21	9.75	30.75	51.75	72.75	93.75	114.75	134.25	10
13-9	21	21	21	21	9.75	30.75	51.75	72.75	93.75	114.75	135.75	10
14-0	21	21	21	21	9.75	30.75	51.75	72.75	93.75	114.75	135.75	10

- 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 various installation factors.
 Strut locations shall be adjusted accordingly.

