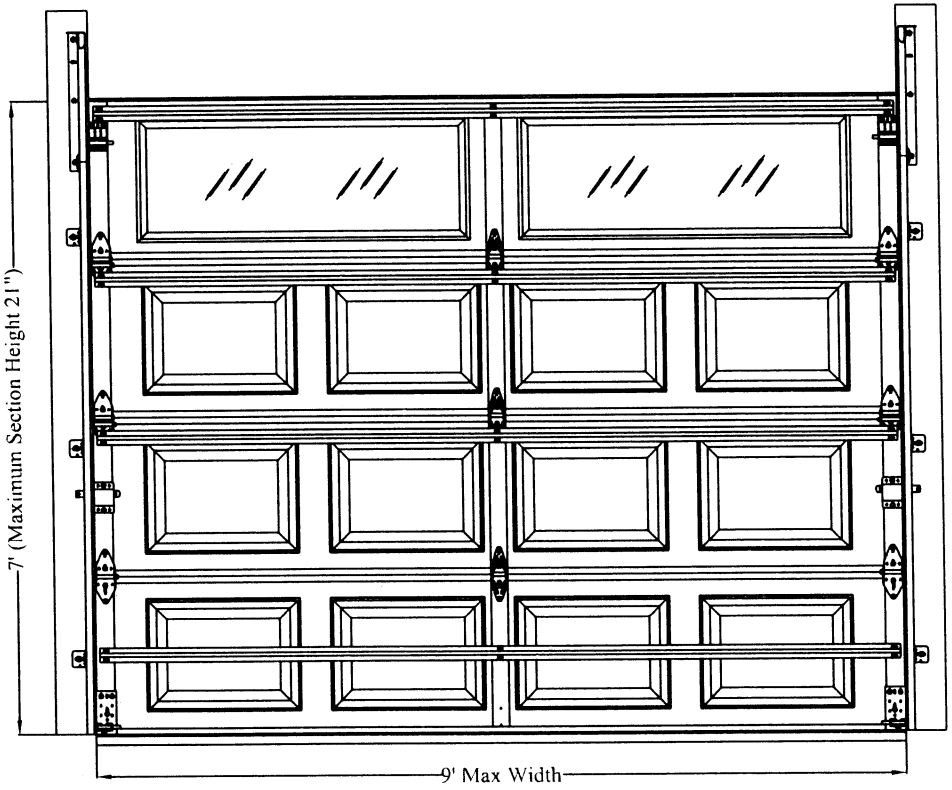
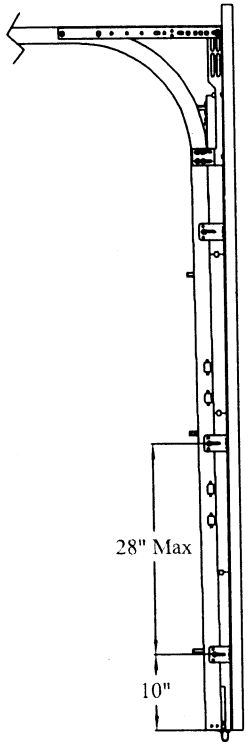
| REVISIONS | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | APPROVED |
| B | Changed strut types and quantities | 11/10/06 | JMS |



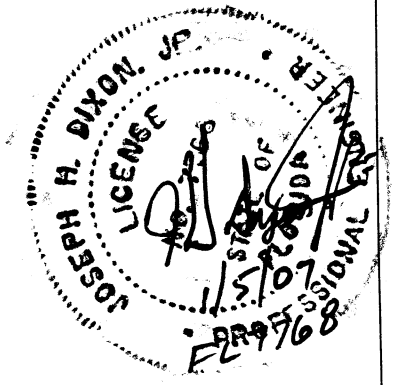




| Strut Locations | |
|---|---|
| 7' | 8' |
| 10.5" | 10.5" |
| 39.5" | 36.5" |
| 60.5" | 54.5" |
| 82" | 72.5" |
| | 94" |

Note: Additional door heights are available. Consult manufacturer for details.

| Track Brackets | |
|---|---|
| 7' | 8' |
| 3 | 4 |

Note: Detail views shown on sheet 2.




**Design pressures meet or exceed those required by ASCE 7-02 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: +26.9/-30.5**
**Test Pressure +40.4/-45.7**

**Tested per the applicable requirements of ANSI/DASMA 108-2002**

**DRAWN BY:** John M. Stroede 11/10/06

**APPROVED BY:** John M. Stroede 11/10/06

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

**TITLE**
Windload Rated Residential Garage Door
Models 510, 590, 410, 430, 450, 470, 490

| DRAWING NUMBER | | REVISION |
|---|---|---|
| RO9B-130 | | B |
| SIZE A | SCALE N/A | SHEET 1 of 2 |

| REVISIONS | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | APPROVED |
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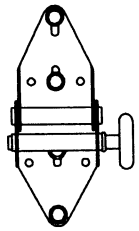
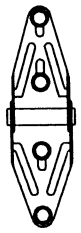
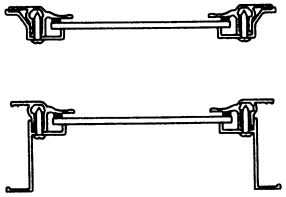


**End Hinge**
14 gauge galvanized steel end hinge attached with four 1/4" x 3/4" screws

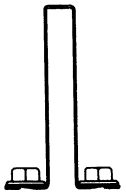
**Roller**
Minimum 7 ball steel roller or nylon non-ball bearing roller with 4" stem



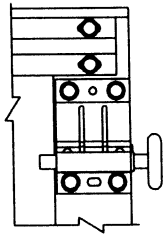
**Center Hinge**
18 gauge galvanized steel narrow or wide body hinge attached with four 1/4" x 3/4" screws



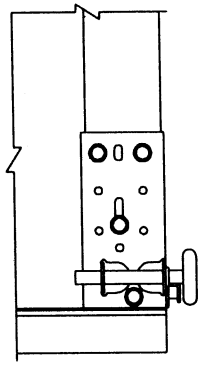
**Windows (optional)**
Plastic screw together window frame for DSB glass with a maximum opening of 43" x 15" or plexiglass with a maximum opening of 18" x 12 1/2"



**Struts**
3" x 1 7/8" 20 gauge 33 ksi hat strut attached with two 1/4" x 5/8" self-tapping screws per stile



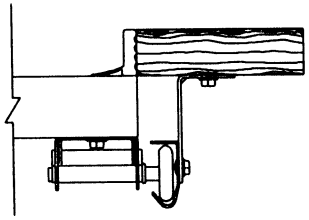
**Top Fixture**
16 gauge galvanized steel top fixture with two bolt roller carrier and attached to door with four 1/4" x 5/8" self-tapping screws



**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

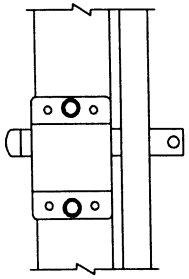
**Bottom Bracket**
13 gauge galvanized steel bottom bracket attached with four 1/4" x 5/8" self-tapping screws

**Bottom Weatherstrip**
Aluminum extrusion with vinyl insert

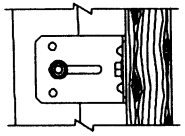


**Wood Jambs**
Vertical jambs are to be 2x6 #2 Spruce-Pine-Fir (S-P-F) or better depeding on regional availability
Note: Preparation of jambs by others, and supporting structural elements must be capable of withstanding the rated windload

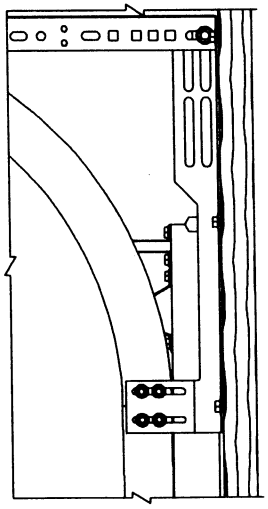
**Stop Molding**
Stop molding is required, or door must overlap jambs by 1/4"



**Locking Mechanism**
Doors must have either an electronic operator or locking device installed (inside slide lock shown, other lock types permitted)
Note: Extension spring doors require locking point on each side if no electronic operator is installed



**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 and to vertical track with one 1/4" x 3/4" track bolt and nut
Note: Center distance between track brackets not to exceed 28"



**Flag Bracket**
12 gauge galvanized steel flag bracket attached to wood jamb with three 5/16" x 1 5/8" wood lag screws 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"

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TITLE
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| DRAWN BY: John M. Stroede 11/10/06 | DRAWING NUMBER RO9B-130 | | REVISION B |
|---|---|---|---|
| APPROVED BY: John M. Stroede 11/10/06 | SIZE A | SCALE N/A | SHEET 2 of 2 |