



RESIDENTIAL GARAGE DOOR INSTALLATION

Revised October 2020

Code Reference:

International Residential Code (IRC) – Section R609.4

International Building Code (IBC) – Section 1609

Similar to other doors and windows, the design and installation of garage doors and frames shall comply with the design wind load for the structure. The basic wind speed for the Kansas City Metropolitan area is 115 mph (3-second gust). For urban and suburban areas, Exposure Category B, this wind speed translates into 12.8 psf positive wind pressure and 14.8 psf negative wind pressure for a 9'x7' door; for larger doors the pressure exerted is 12.4 psf positive and 13.8 psf negative. Exposure B can be assumed unless the site meets the definition of another category (RE: IRC Section R301.2.1.4).

One means of establishing that the door is code compliant is through labeling. The trade association known as the Door and Access Systems Manufacturers Association International (DASMA) has a certified labeling program. The label that DASMA allows to be affixed to the door clearly indicates the wind speed (in psf) for which the door has been certified. For more information on this program, see DASMA's web site at: www.dasma.com. Also see DASMA Technical Data Sheet #155 for an overview of the IRC requirements.

Garage doors are usually the largest openings in a house. Their failure in strong winds can lead to partial collapse of the house.

Installation Procedures - Installation shall comply with the attached diagrams (Figures 1, 2, 3, and 4).

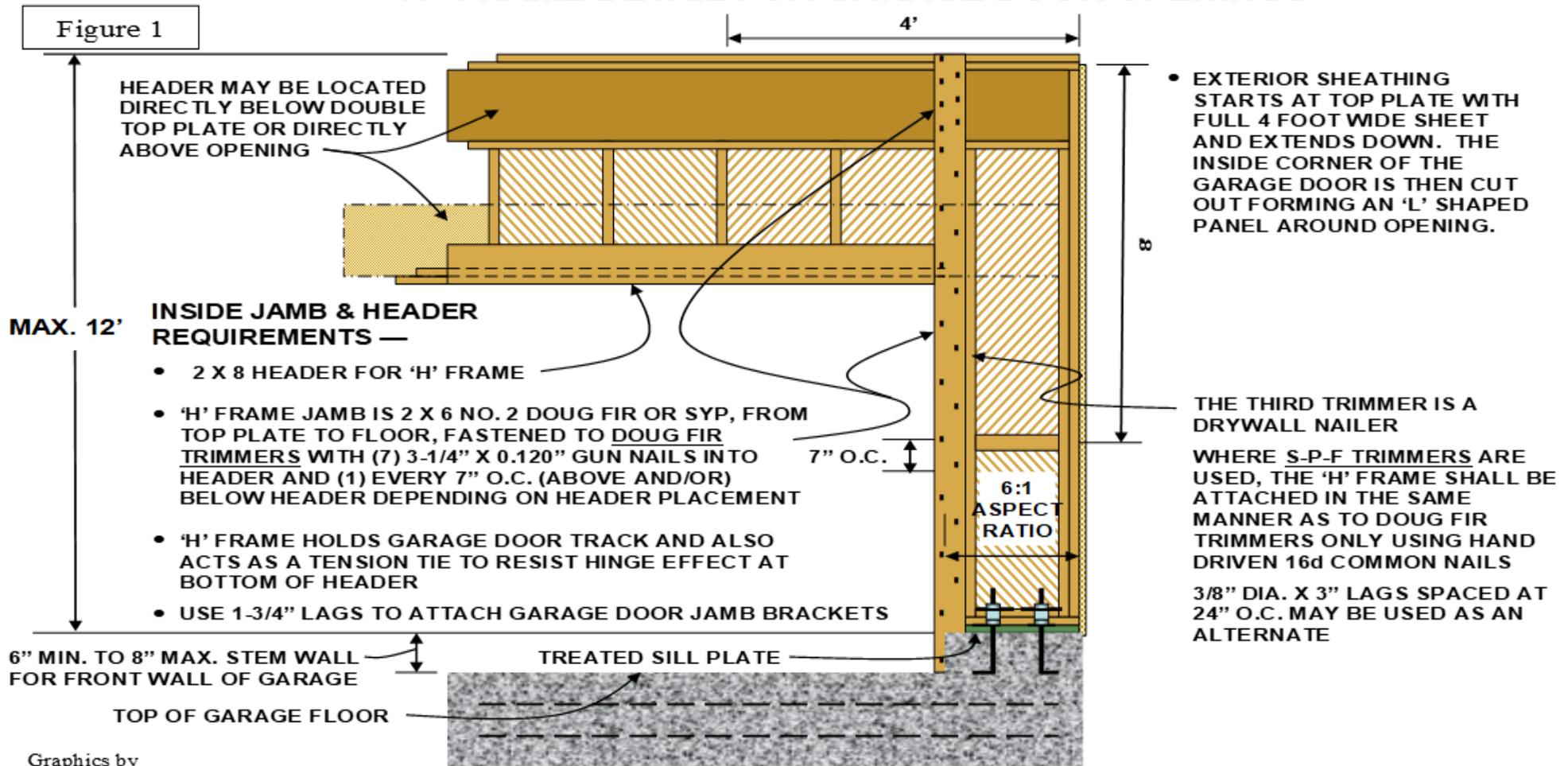
The door and track installation shall comply with the attached diagrams or the manufacturers' installation instructions, whichever is most restrictive.

Inspection Procedures - Door and frame installation shall be verified for compliance prior to final inspection.

- The installer shall attach a certification label to the door indicating compliance with the 115 mph wind load conditions and that the installation conforms to the manufacturers' installation instructions.

This initiative has been developed by agreement with the Johnson County Building Officials (JOCOBO) and the Home Builders Association of Greater Kansas City.

INSIDE VIEW "H" FRAME DETAIL FOR GARAGE DOOR OPENINGS

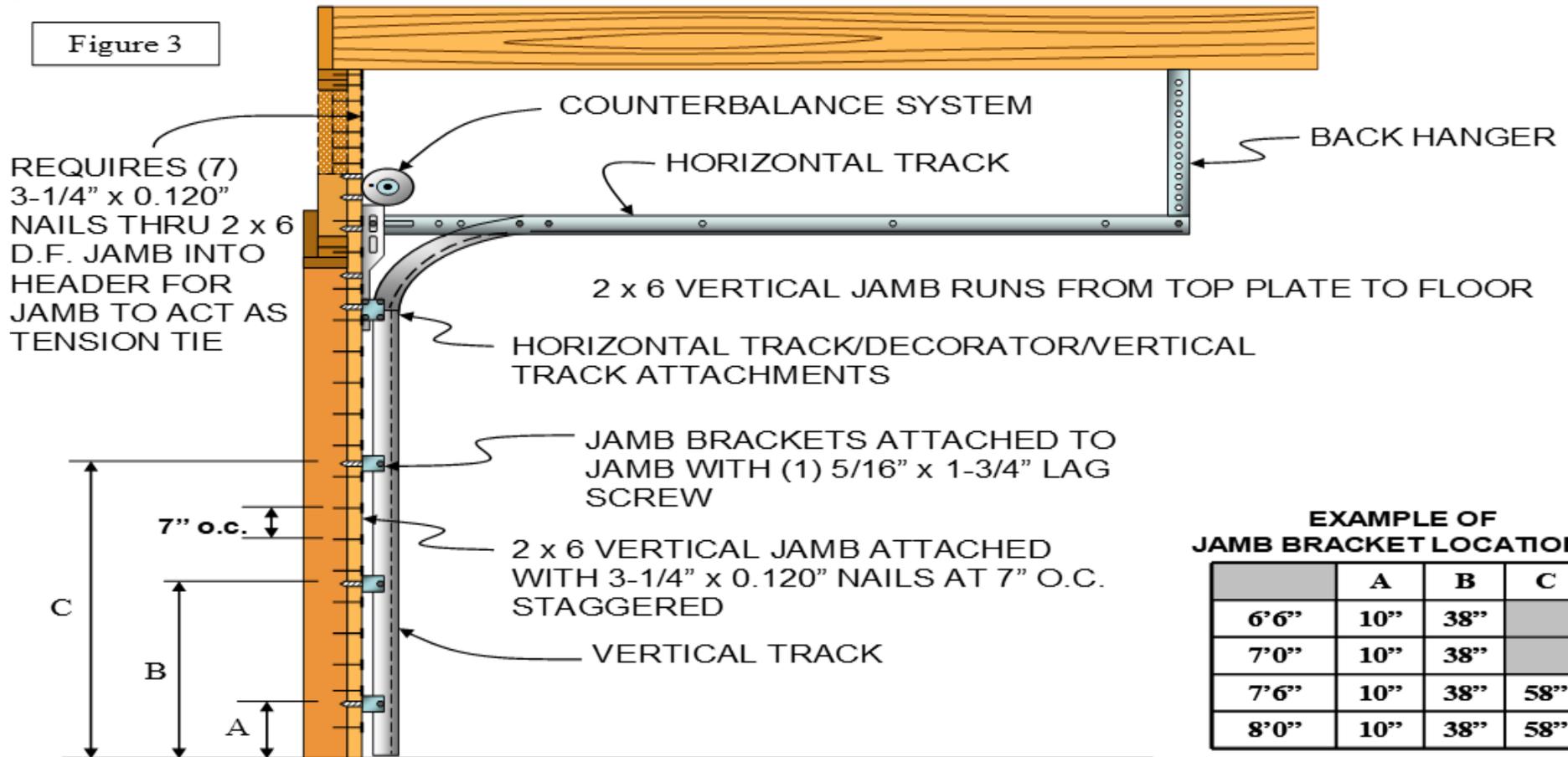


Graphics by
TimberTek Consulting

OTHER ENGINEERED METHODS ON PLANS SUPERSEDE THIS DETAIL

2 x 6 VERTICAL JAMB ATTACHMENT & BRACKET MOUNTING

Figure 3



EXAMPLE OF JAMB BRACKET LOCATIONS*

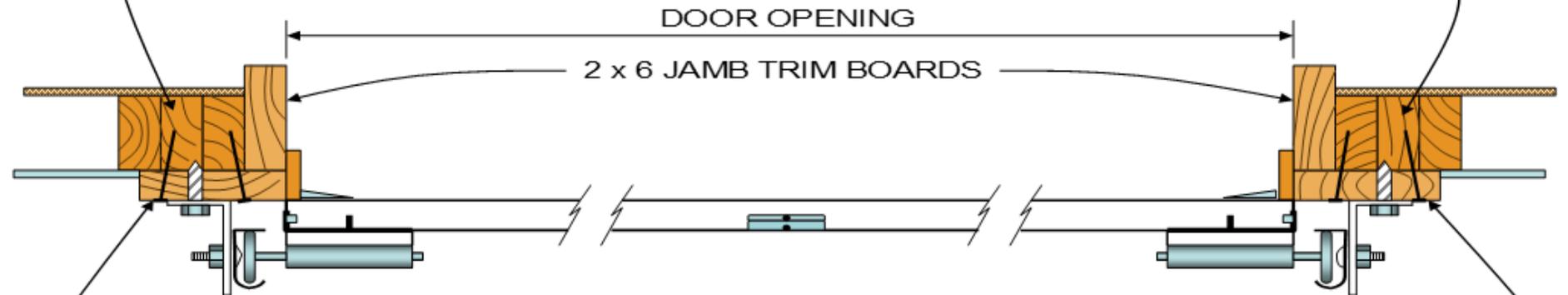
	A	B	C
6'6"	10"	38"	
7'0"	10"	38"	
7'6"	10"	38"	58"
8'0"	10"	38"	58"

2 x 6 VERTICAL JAMB ATTACHMENT

Figure 4

3 DOUG FIR GARAGE DOOR TRIMMERS SUPPORTING HEADER
— OR —

3 S-P-F GARAGE DOOR TRIMMERS SUPPORTING HEADER



- 2 x 6, NO. 2, DOUG FIR OR SYP 'H' FRAME JAMB RUNS FROM TOP PLATE TO FLOOR

- 'H' FRAME ATTACHED TO FRAMING WITH (7) 3-1/4" x 0.120" GUN NAILS INTO HEADER AND (1) EVERY 7" O.C. STAGGERED INTO THE D.F. TRIMMERS (ABOVE AND/OR BELOW THE HEADER)

- 'H' FRAME ATTACHED IN SAME MANNER ONLY USE HAND DRIVEN 16d COMMON NAILS AT 7" O.C. STAGGERED INTO S-P-F TRIMMERS