

## Wall Mounted Swing Racks Framing Instructions

### Introduction

Signal Transport's Swing Racks are available as pairs or as singles. The system consists of a stiff, welded tube steel face frame, a spacer/latch assembly, and top and bottom pivot/strike plates. The spacer may be attached to either side of a rack, enabling the installer to make a left or right opening rack. When supplied as pairs, one spacer serves two racks.

Swing Racks are intended to be installed in framed and trimmed wall openings. The face of the steel should line up flush with the front of the trim. There is a 1/4" gap reveal on each side of the racks.

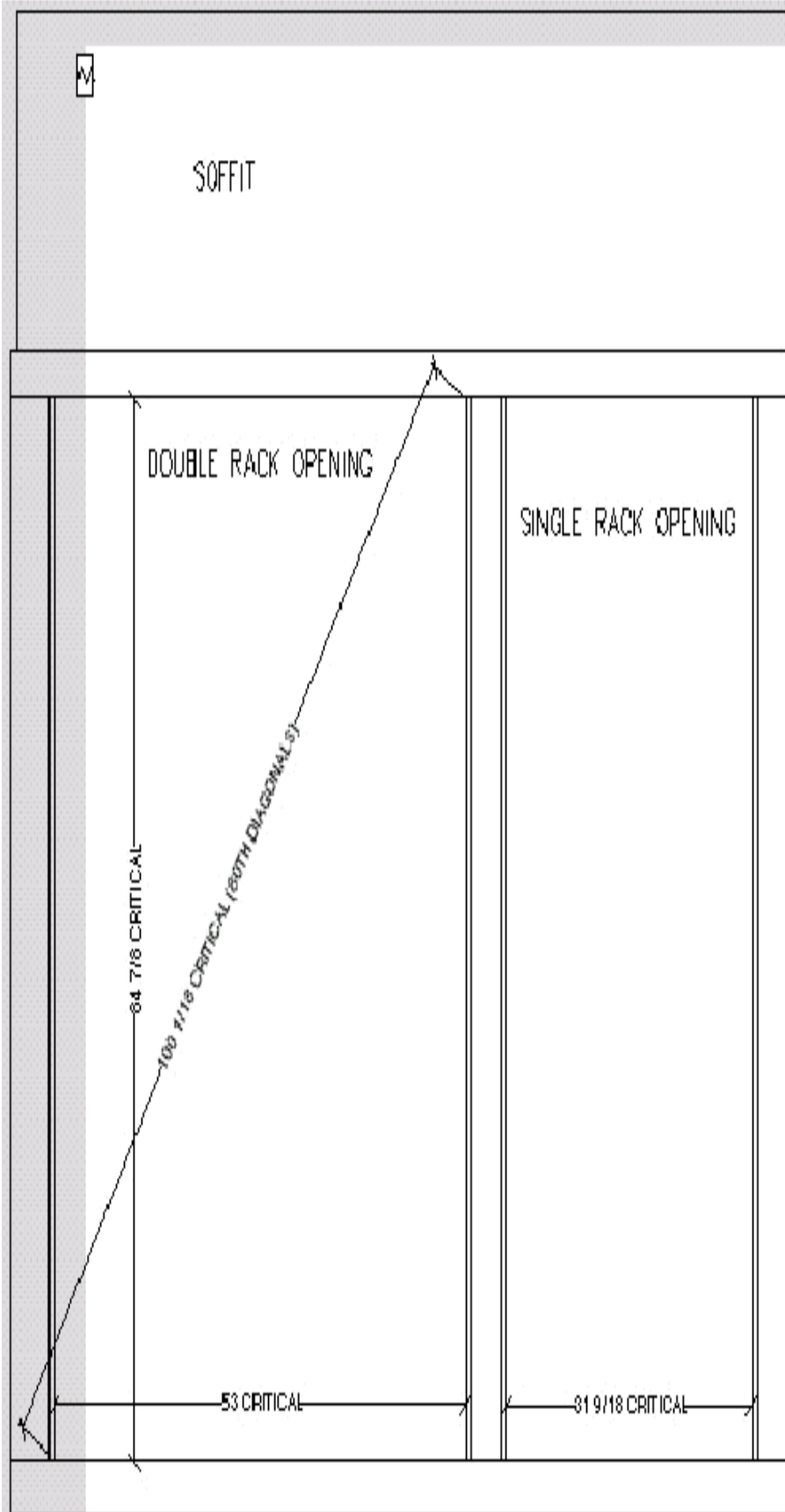
Each face frame is supported entirely by two pivot pegs which are retracted inside the tubing and are slid into delrin pivot bushings in the top and bottom plates during installation. These 1/8" steel plates are mounted to the head and sill of the opening and serve to spread the loads imparted by the rack. The dead weight of the entire rack is therefore borne by the framing just below the lower pivot points. Lateral forces are imparted to the bottom and top pivot point as well. Therefore in order to ensure that the racks stay plumb and close properly, it is imperative that some critical factors are achieved during framing and finish carpentry for the opening:

1. The bottom of the opening (sill) must be solid framing, capable of supporting the entire weight of the rack without deflection. Do not shim out jamb stock here.
2. The top of the opening (head) must be connected through a diaphragm directly to building structure to avoid lateral movement when the rack is swung through it's range of motion.
3. The opening must be square and plumb within 1/8" as measured across the diagonal.

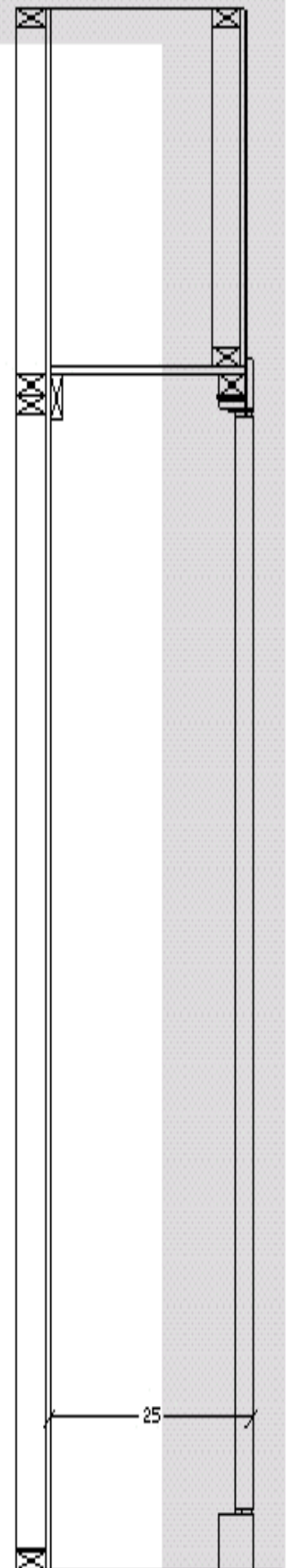
Several other factors also contribute to a clean installation:

1. The sides of the opening should be chamfered 3/4" at 45 degrees to allow the racks to swing past 90 degrees.
2. Provide at least 24" depth, more if you intend to locate AC power outlets, etc., on the rear wall.

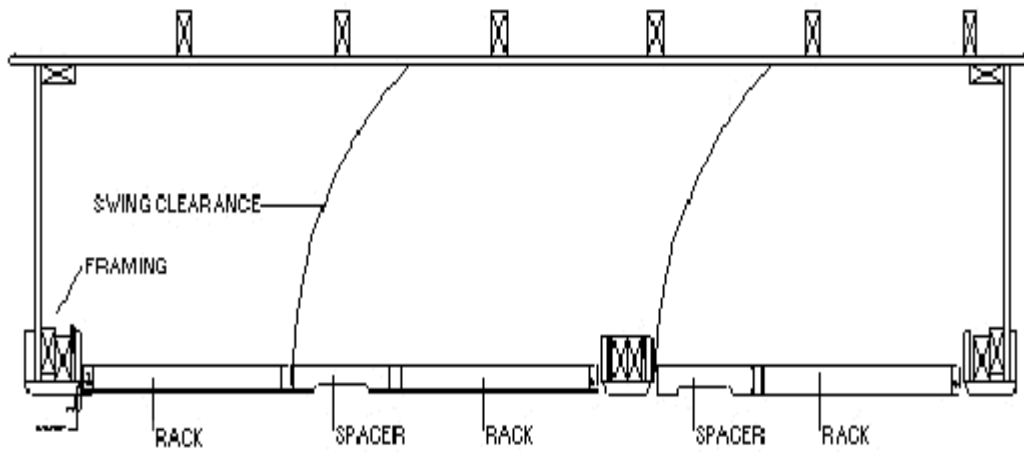
Please refer to the accompanying drawings for dimensions.



FRONT VIEW

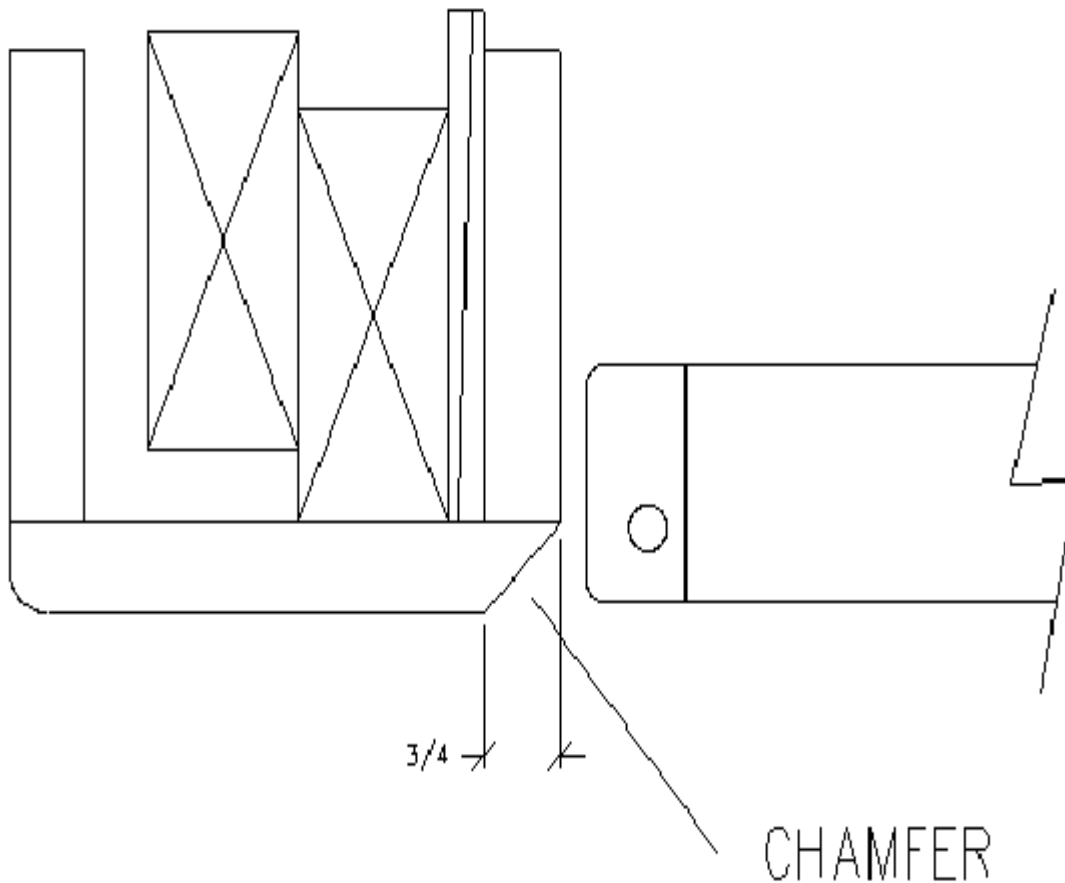


SIDE VIEW

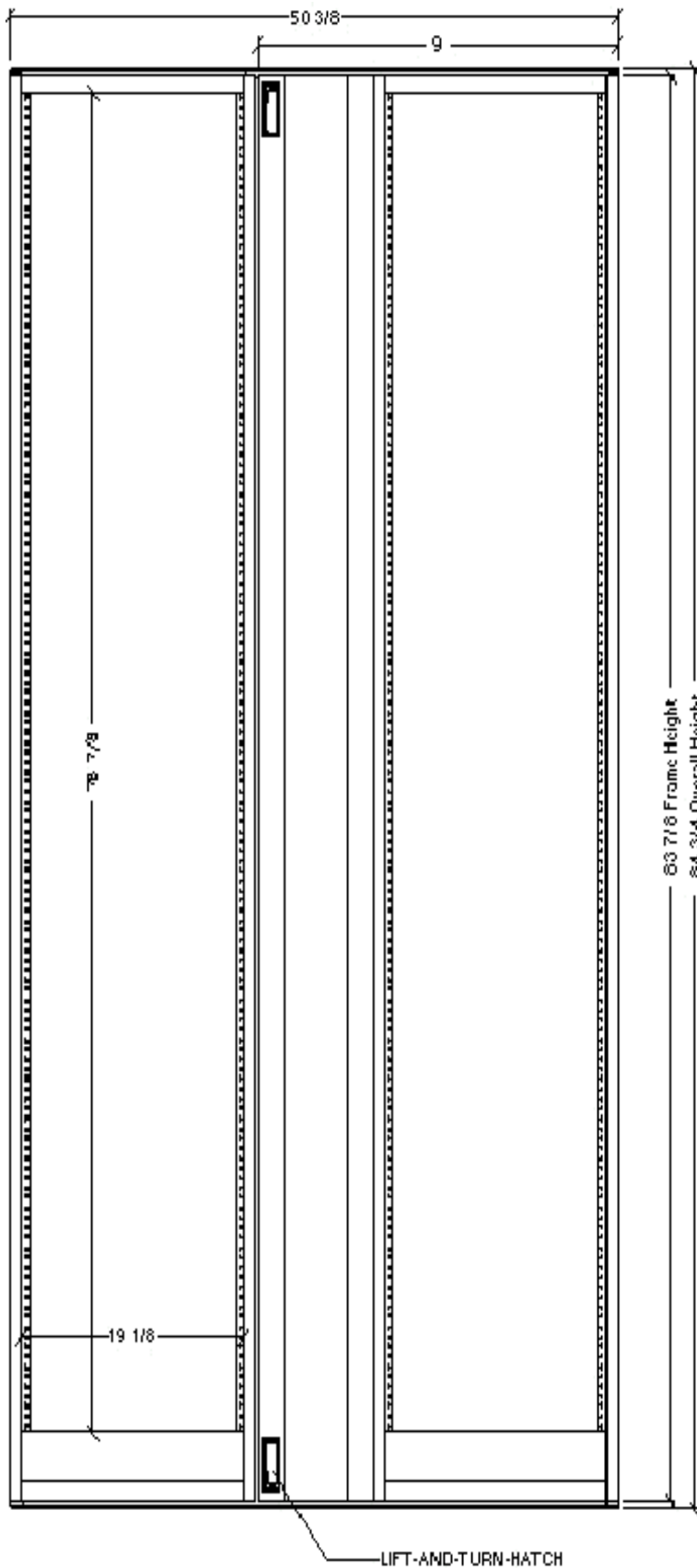


TOP VIEW

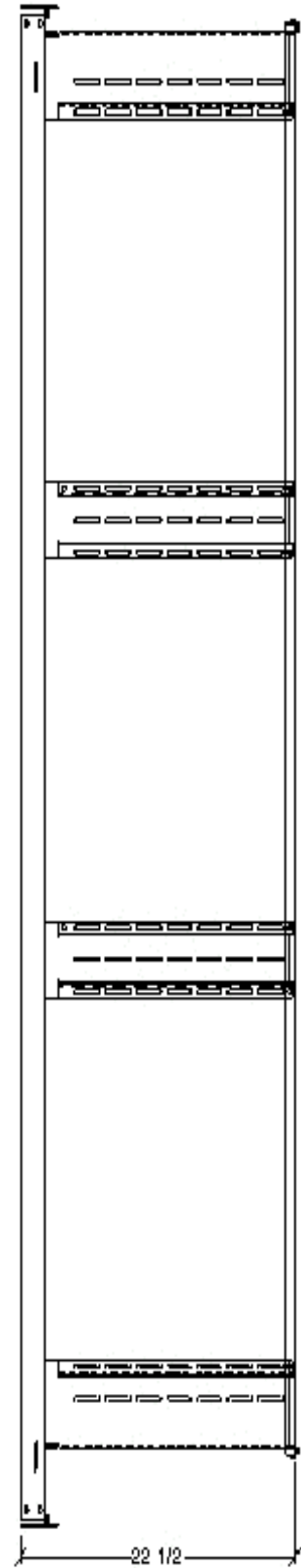
FRAMING DETAIL DRAWING



DETAIL OF SIDE OF OPENING  
 CHAMFER TRIM 3/4 X 3/4 TO ALLOW  
 RACK TO SWING PAST 90 DEGREES



DOUBLE SWING RACK FRONT VIEW



SIDE VIEW