

TECHNICAL BULLETIN
Fabrication Guidelines

The American Society for Testing and Materials (ASTM) specification C 1048-04 for Heat-Treated Flat Glass, a specification to which we warrant our heat-treated glass meets, offers guidelines for fabrication as summarized below.

Placement of Holes

The minimum distance from the rim of a hole to the nearest edge of the glass must be $\frac{1}{4}$ " or 2 x glass thickness, whichever is greater. Examples for common glass thicknesses are illustrated in figure 1 below.

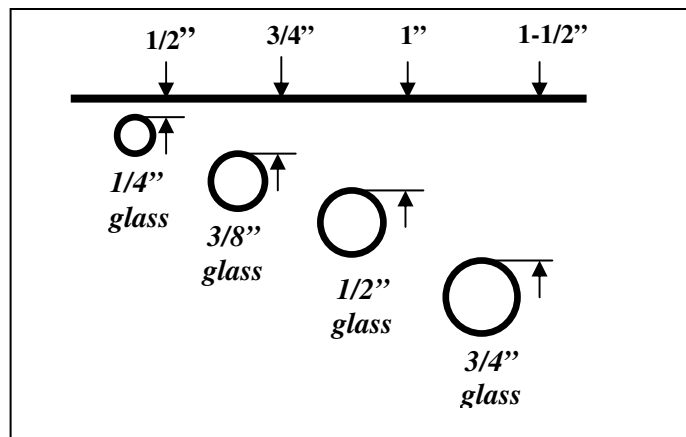


Figure 1 **Hole to Glass Edge Location**

The minimum distance between the rims of adjacent holes must be $\frac{3}{8}$ " or 2 x glass thickness, whichever is greater. See figure 2 for distance examples in common glass thicknesses.

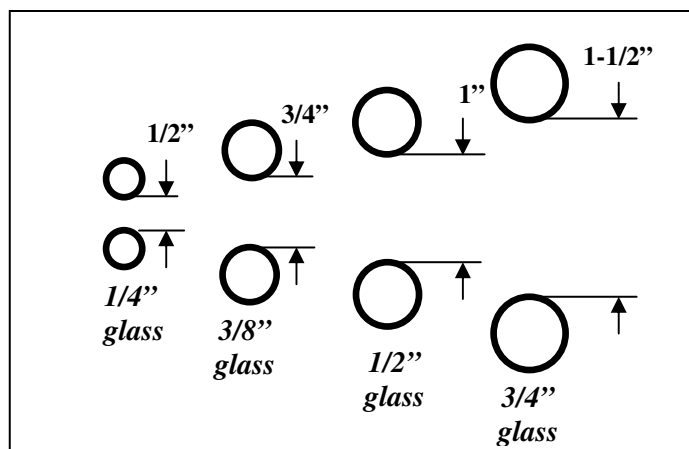


Figure 2 **Hole to Hole Location**

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Fabrication Guidelines (Continued)

Holes in the vicinity of a corner must be positioned so that the nearest edge of the hole is a minimum distance from the corner of 6.5 x the glass thickness.

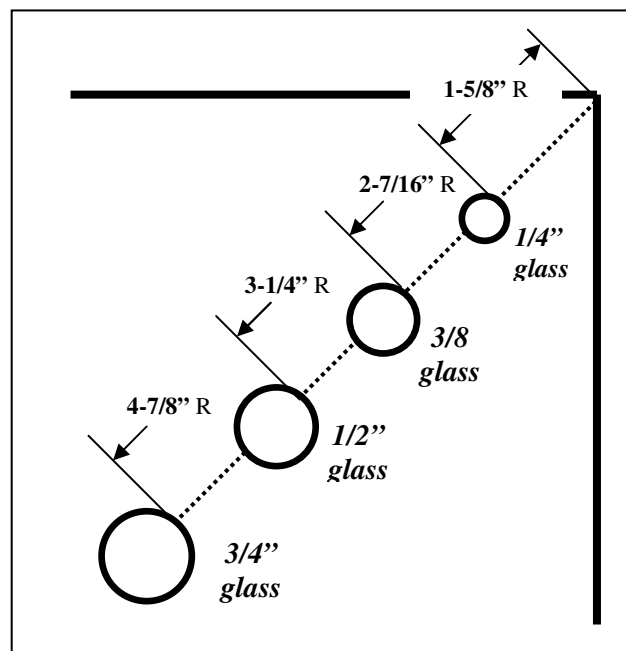


Figure 3 **Hole to Corner Location**

Circular holes shall have a diameter no less than 1/4" or equal to the glass thickness, whichever is greater. Notches must have radius corners \geq to the glass thickness.

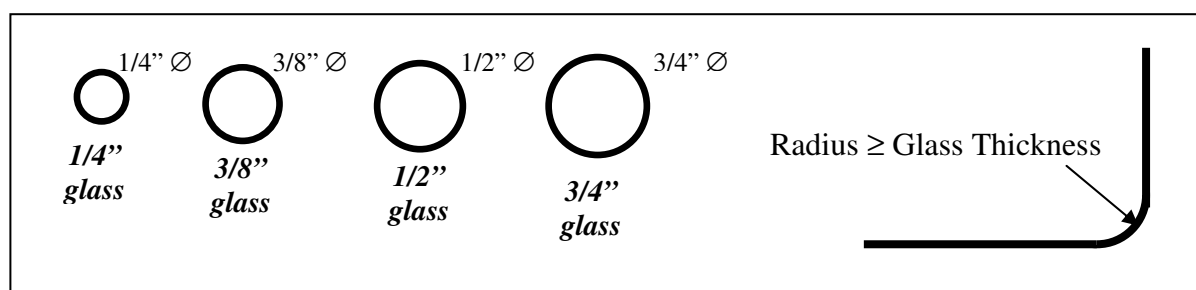
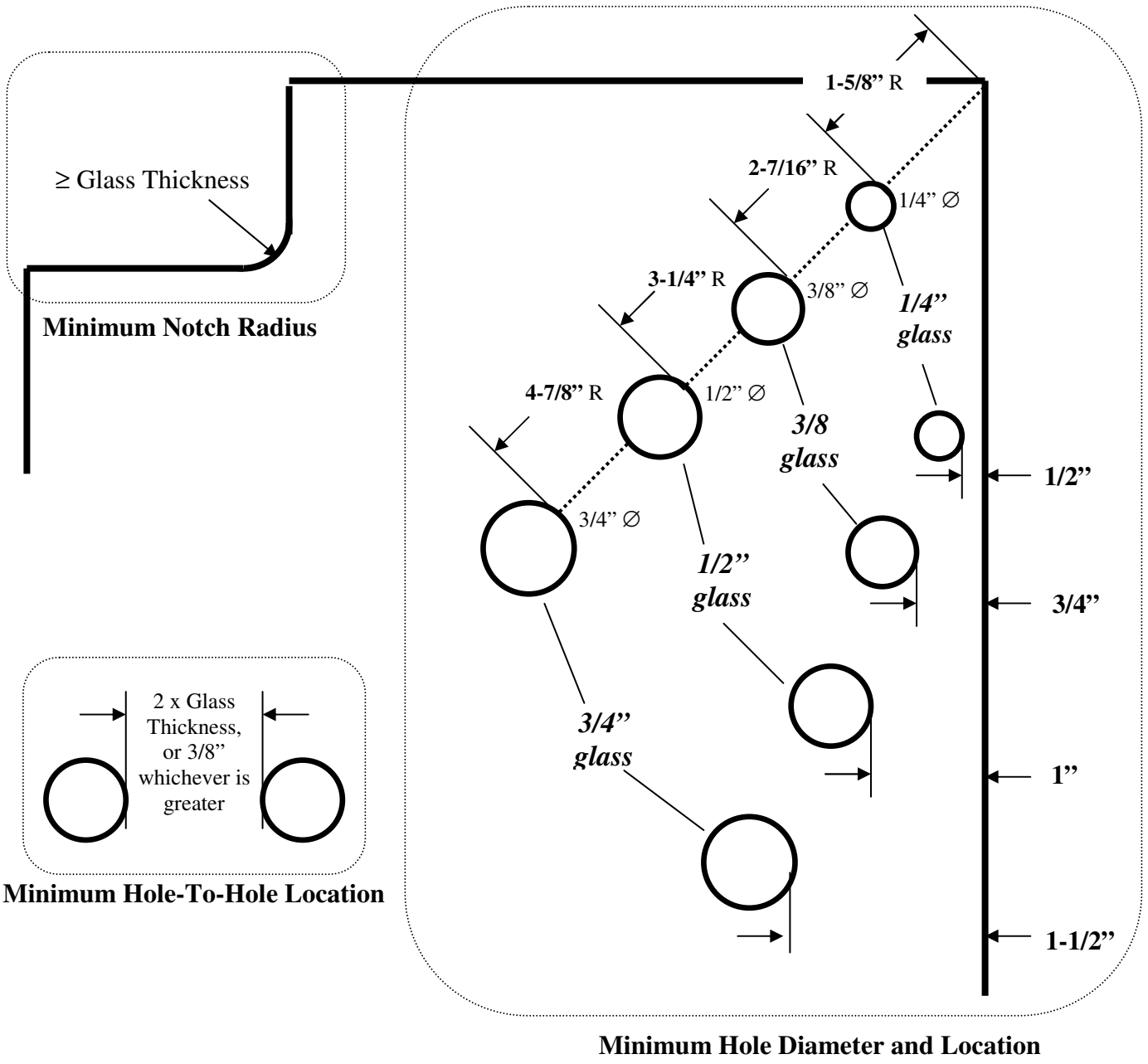


Figure 4

Minimum Hole Diameter and Notch Radius

NOTE: Currently there is much glass and door hardware available on the market, especially shower door hardware, that requires fabrication that does not meet the minimum ASTM guidelines. When we are requested to furnish fabrication that does not comply with these guidelines we may attempt to do so with the understanding, by way of this technical bulletin, that the glass, which is otherwise certified to meet the specifications of ASTM C 1048, will not meet the fabrication guidelines of this specification. This will not alter the safety glazing characteristics of the glass, but may have an effect upon the strength of the glass near the specified fabrication.



General Fabrication Reference Sheet