

RECOMMENDED MINIMUM SLEEVE THICKNESS FOR FIRE DAMPERS

Rigid Connection		
Duct	Duct Dimension	Sleeve Gauge
Round	24" max. diameter	16
Rectangular	24" max. height x 36" max width	16
Round	over 24" diameter	14
Rectangular	over 24" height	14
Rectangular	over 36" width	14

Breakaway Connection		
Duct	Duct Dimension	Sleeve Gauge
Round or Rectangular	12" and less	26
	13-30"	24
	31-54"	22
	55-84"	20
	85" and up	18

By UL Standard 555, all ducts are required to terminate at the fire damper sleeves or the damper frames. Sleeve thickness is contingent on type of connection. All UL listed dampers also have maximum dimensions associated with the test rating. Contingent on sleeve thickness a rigid connection may be used in lieu of a breakaway connection. Sleeves may be omitted where dampers are designed to be in non-ducted air passages or where damper housing permits attachment of retaining angles to the housing. Attachment of retaining angles must not restrict operation of the fire damper. Certain UL approved designs do not require retaining angles.

Where the fire damper sleeve is exposed to the airstream, the metal sleeve will be of the same material as the duct system. A steel sleeve, of the type or finish specified by the system designer, will be used for fibrous glass ductwork and where the fire damper sleeve is not exposed to the airstream.