

Steel tube supports provided by Lawrence Doors are part of a complete rolling door assembly. They are a pre-engineered system designed to support normal loads imposed by a door, grille or closure up to the following limits:

### For Grilles and Closures

| <u>Tube Size</u> | <u>Tube Length</u> | <u>Max. Grille/Closure Size</u> |
|------------------|--------------------|---------------------------------|
| 3" x 3" x 1/8"   | Up to 20 ft.       | 20 ft. wide, 11 ft. high *      |
| 4" x 4" x 3/16"  | Up to 20 ft.       | 30 ft. wide, 16 ft. high        |

\* 3" x 3" x 1/8" tube supports cannot be used for P-series grilles.

### For Service Doors

(20 PSF maximum windload)

*Due to their increased weight, area limits for Insulated Service Doors are approximately 75% of the limits shown below for Service Doors.*

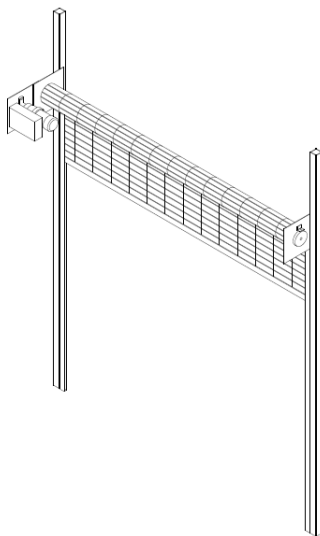
| <u>Tube Size</u> | <u>Tube Length</u> | <u>Max. Door Size</u>                   |
|------------------|--------------------|---|
| 3" x 3" x 1/8"   | Up to 20 ft.       | 16 ft. wide, 16 ft. high, 200 sq. ft.*  |
| 4" x 4" x 3/16"  | Up to 20 ft.       | 24 ft. wide, 16 ft. high, 350 sq. ft.   |
| 5" x 5" x 1/4"   | Up to 20 ft.       | 30 ft. wide, 16' high, 450 sq. ft.      |
| 6" x 6" x 1/4"   | Up to 20 ft.       | 30 ft. wide, 16' high, over 450 sq. ft. |

\* 3" x 3" x 1/8" tube supports cannot be used for P-series doors or service doors with windlocks.

Tube supports are typically mounted using 2 structural steel angle clips at the top and bottom of each tube, attached to the tubes with minimum 3/8" bolts, secured to the slab with minimum 3/8" x 4" wedge anchors and to the structure above with minimum 3/8" fasteners appropriate for the construction. Size of angle clips and number of fasteners is a function of the tube size and application. Additional field bracing may sometimes be required.

Doors/grilles can be installed with brackets and guides attached directly to specially prepared tubes (holes tapped for guide assembly bolts and tubes notched for access to bracket assembly bolts), or tubes can be provided only to support typical face of wall or between jamb mount doors/grilles.

Tube supports should not be considered structural building components. They provide an alternative method of mounting a rolling door where no other adequate supports exist. They are intended to support only the door, grille or closure assembly – not the building structure. Other building components should not be attached to the tube supports.



Rolling grille installed on tube supports is as shown. Other products are similar. Angle clips are omitted for clarity. Details are available upon request.

**NOTE:** Standard tube supports are intended for attachment to rigid structures above and below. Consult factory if tube supports are required to accommodate expansion or contraction such as when tubes are attached to flexible structures.