

Our new line of aluminum framed entrance mat and grating systems were designed to comply with the American's with Disabilities Act (ADA). Below is detailed information about each applicable section.

Reference Below from 2010 ADA (Americans with Disabilities) Design Standards

CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

**Advisory 302.1 General.** A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slip-resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.

JL entrance systems are designed to be stable walking surfaces when properly installed. Tread rails will not ripple or shift. Several tread selections are offered with a range of slip resistance measured as the Coefficient of Friction (COF) with higher values indicating more slip resistance. Please note that a specific value is not recommended by the ADA guidelines. Tread COF as tested according to ASTM C1028 are as follows:

- Premium Carpet - Dry .85, Wet .51
- Tuff Tread® Brush Tread - Dry .78, Wet .71
- Serrated Vinyl - Dry .88, Wet .73
- Vinyl Abrasive for Interior Use - Dry .75, Wet .80

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

**Advisory 302.2 Carpet.** Carpets and permanently affixed mats can significantly increase the amount of force (roll resistance) needed to propel a wheelchair over a surface. The firmer the carpeting and backing, the lower the roll resistance. A pile thickness up to 1/2 inch (13 mm) (measured to the backing, cushion, or pad) is allowed, although a lower pile provides easier wheelchair maneuvering. If a backing, cushion or pad is used, it must be firm. Preferably, carpet pad should not be used because the soft padding increases roll resistance.

JL's Premium Carpet and Tuff-Tread tread selections are have only a 1/4" pile depth, allowing wheels to easily roll across the surface. Tread inserts are mechanically secured to the rails for maximum stability.



JL INDUSTRIES



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ADA Compliance of JL' Line of Entrance Mats and Gratings.

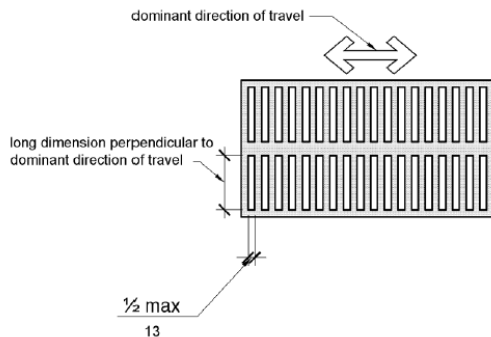
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**302.3 Openings.** Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.



**Figure 302.3 Elongated Openings in Floor or Ground Surfaces**

Activar aluminum grids and gratings are designed with a 3/16" (5 mm) wide slot to drain away moisture. Stainless grilles are spaced 1/8" (3.2 mm) for drainage. All models are to be installed with the drain slots perpendicular to the direction of travel.

**303 Changes in Level**

**303.1 General.** Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.

**303.2 Vertical.** Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

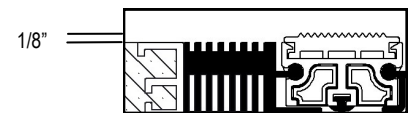
All of JL's tread selections provide less than 1/4" vertical change above the level of the frame and tread rail which are typically installed flush with the floor.

Premium Carpet and Tuff-Tread® Brush Tread - 1/8" (3.2 mm)

Serrated Vinyl - 1/8" - (3.2 mm)

Abrasive Vinyl - 1/16" - (2 mm)

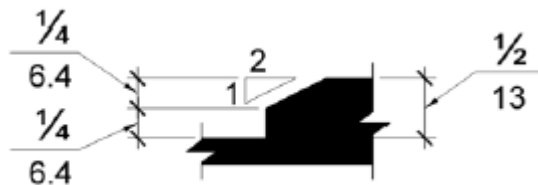
Serrated Aluminum - 1/16" (2mm)



Serrated Vinyl  
Extends Only 1/8"  
Above Floor Level

**Advisory 303.3 Beveled.** A change in level of 1/2 inch (13 mm) is permitted to be 1/4 inch (6.4 mm) vertical plus 1/4 inch (6.4 mm) beveled. However, in no case may the combined change in level exceed 1/2 inch (13 mm). Changes in level exceeding 1/2 inch (13 mm) must comply with 405 (Ramps) or 406 (Curb Ramps).

**303.3 Beveled.** Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.



**Figure 303.3 Beveled Change in Level**

Activar surface-mounted mats and gratings are edged by either an aluminum edge which is 3/8" high by 1-1/4" wide or vinyl beveled trim which is 3/8" high by 1-5/8" wide, both of which are less than the 1:2 slope noted above in 303.3.

