



SMART-WAY  
**RACEWAY**  
SYSTEM

ADA COMPLIANCE

## Smart-Way: The smart ADA compliant choice for your wire management needs!

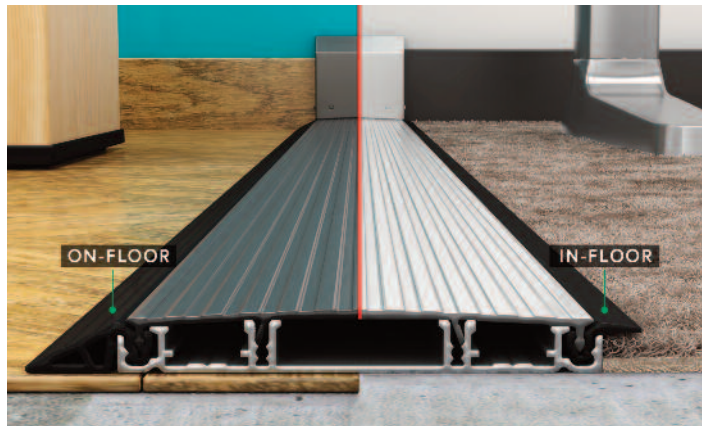
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The Smart-Way Raceway system is an intelligent, ADA compliant wire management choice for workplaces, homes, or classrooms.

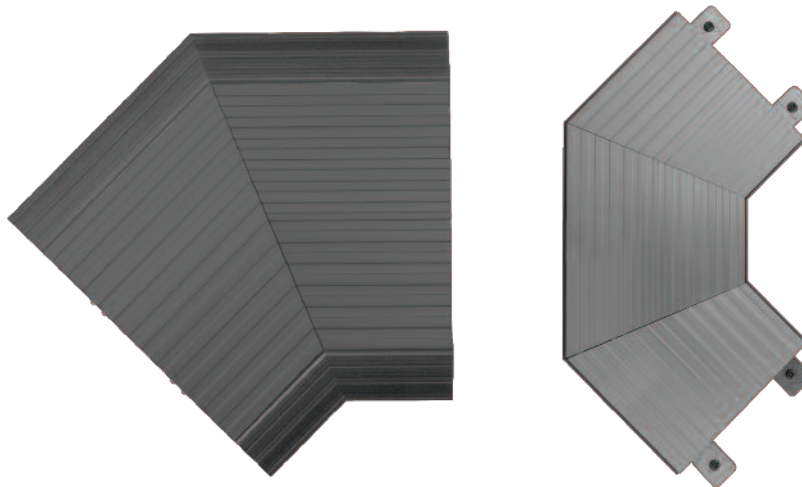
### Significant raceway features include:

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- Can be installed on or in any type of flooring



- Optional 45 or 90-degree angles available



- Choice of slate grey and aluminum finishes



## **ADA Compliance History**

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The American Disability Act (ADA) was passed in 2010 to provide equal access to, and prevent discrimination against, individuals in the US who have either mental or physical disabilities. Barriers to employment, transportation, public service establishments, public services, and telecommunications have created skyrocketing economic and social costs for American society and have undermined the efforts of people with disabilities to receive an education, obtain employment, and be contributing members of society.

By breaking down these barriers, ADA allows society to benefit from the skills and abilities of people with disabilities, to generate profits by increasing their purchasing power and their ability to use it, leading them also to a more active and productive life. Some of the physical locations where it has been generally applied includes retail stores, entertainment sites, lodging places, local government offices, large enterprises, and many small and medium businesses of all types.

## **ADA Compliance and FSR Smart-Way Floor Raceway system**

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The ADA has three standards that relate to the Smart-Way raceway systems. Those standards are 302- Floors and Ground surfaces, 303 Changes in level and 405 Ramps. The standards are listed below from the 2010 Standards for Accessibility Design from the Department of Justice:

### **ADA Standard 302 – Floor and Ground Surfaces**

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302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302. EXCEPTIONS: 1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant. 2. Areas of sport activity shall not be required to 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.

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 ½ 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.

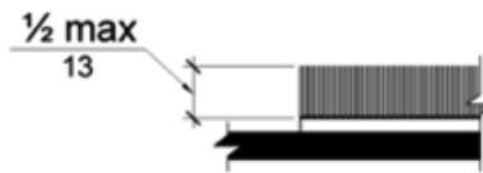


Advisory 302.2 Carpet. Carpets and permanently affixed mats can significantly increase the amount of force (roll resistance) needed to propel a wheelchair over a surface. The firmer the carpeting and backing, the lower the roll resistance. A pile thickness up to ½ inch (13 mm) (measured to the backing, 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.

### Smart-Way Compliance

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FSR Smart-Way provides a firm and stable surface. The ribbing on the raceway cover provides slip resistance, and the carpet edge trim prevents exposed edges.



**Figure 302.2**  
**Carpet Pile Height**

### ADA Standard 303 – Changes in Level:

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

**EXCEPTIONS:** 1. Animal containment areas shall not be required to comply with 303. 2. Areas of sport activity shall not be required to comply with 303.

303.2 Vertical. Changes in level of ¼ inch (6.4 mm) high maximum shall be permitted to be vertical.

303.3 Beveled. Changes in level between ¼ inch (6.4 mm) high minimum and ½ inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

Advisory 303.3 Beveled. A change in level of ½ inch (13 mm) is permitted to be ¼ inch (6.4 mm) vertical plus ¼ inch (6.4 mm) beveled. However, in no case may the combined change in level exceed ½ inch (13 mm). Changes in level exceeding ½ inch (13 mm) must comply with 405 (Ramps) or 406 (Curb Ramps).

303.4 Ramps. Changes in level greater than ½ inch (13 mm) high shall be ramped and shall comply with 405 or 406.



## Standard 405 Ramps

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405.1 General. Ramps on accessible routes shall comply with 405.

**EXCEPTION:** In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

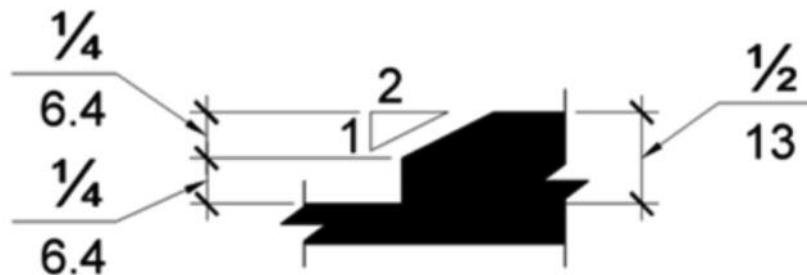
405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

**EXCEPTION:** In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying.

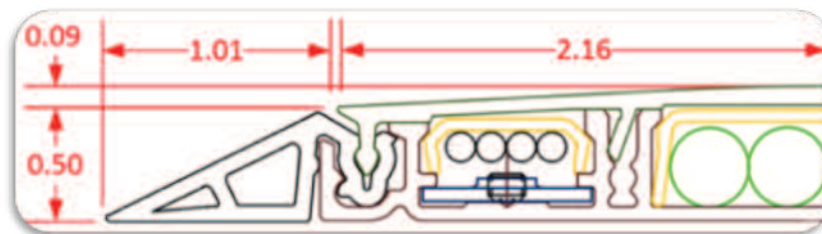
## Smart-Way Compliance with the Standard 303 and 405

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The following illustrations shows the compliance to 303 and 405 ADA standards requiring a beveled 1/2" high edge with no more than 1:2 slope, and a ramped cover providing a greater than 1:12 slope. This first illustration shows the ADA requirements for no more than a 1:2 slope Therefore you can ensure that the Smart-Way Raceway System complies with the quality standards for your workplace.



The diagram below is a cross section of the Smart-Way raceway and floor edging that illustrates compliance with the ADA standard:



The slope for the carpet edging is 1:2. The slope of the cover is less than the required 1:12.

Contact:  
973-785-4347  
Sales@fsrinc.com

