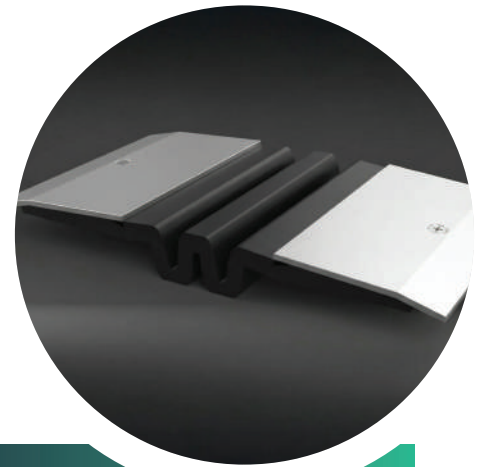


Profile Details

The FR-16 is a recessed-mounted expansion joint system designed with a central EPDM rubber insert that incorporates extended flanges or wings, protected by an aluminum cover plate. This configuration provides durability and flexibility, allowing the joint to accommodate structural movement while maintaining a neat surface finish. The model is particularly engineered for interior parking areas and heavy-duty indoor applications where long-lasting performance is required.



Application

The primary function of the FR-16 system is to absorb structural movement caused by thermal expansion, contraction, or minor seismic activity while protecting the joint gap from debris and damage. The EPDM rubber ensures flexibility and resilience under repeated vehicular and pedestrian loads, while the aluminum cover plate enhances strength and safeguards the system from wear. It is most commonly applied in indoor parking zones, basements, driveways, service corridors, and other heavy-duty interior floors where both strength and functionality are essential.

Material & Finish

The expansion joint system is manufactured using a high-quality EPDM rubber insert that is resistant to oils, greases, and environmental wear. The aluminum flanges and cover plate are produced from extruded aluminum alloy, typically 6063-T6 or equivalent, offering high strength and durability. The aluminum components are available in mill finish or natural anodized finish, while the fastening system uses corrosion-resistant steel anchors to ensure reliable installation.

Compatibility

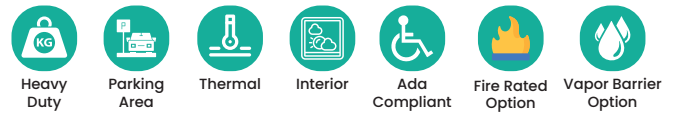
The FR-16 model is compatible with a wide range of interior flooring materials such as concrete, epoxy coatings, and ceramic tiles. It is especially suited for parking facilities and other heavy-duty indoor environments. However, it is not recommended for use in fully exposed exterior applications unless specifically adapted for outdoor conditions.

Optional Accessory

The FR-16 system can be complemented with a variety of optional accessories to enhance its performance. These include moisture barriers to prevent water infiltration, fire barriers for compliance with fire protection standards, and prefabricated corner or transition pieces to accommodate architectural detailing and complex layouts.

Profile Guide

Surface Mounted Expansion Joint System
for Parking Floor Applications
-30 to 120 degrees



Application	Joint Width (mm)	Fram Height (H) (mm)	Sightline (S) (mm)
Parking Floor	35	30	203
	50	30	218

Materials Specifications

ASTM D 2000

DESCRIPTION	TEST METHOD	UNIT	SPECIFICATION
Hardness	ADTM D2240	Shore A	70 ± 5
Tensile Strength, Min.	ASTM D 412	MPa	10
Elongation At Break, Min.	ASTM D 412	%	400
Compression Set, Max. (22hrs@70°C)	ASTM D 395 Method B	%	25
Accelerated ageing resistance. (70hrs@100°C)	ASTM D 573	-	-
Change in Hardness	ADTM D2240	Shore A	+10
Change in Tensile Strength, Max.	ASTM D 412	%	-25
Change in Elongation at Break, Max.	ASTM D 412	%	-25
Resistance to Ozone(50± 5pphm, 40±2°C,48hrs,20± 2% Elongation)	ASTM D 1171	-	No Cracks
Adhesion,Min.	ASTM D 429 Method B	KN/m	7
Low Temperature Resistance, non brittle after 3min. @ -40°C	ASTM D 2137 Method C 9.3.3	-	No Cracks
LEED COMPLIANCE SHEET	-	-	-
Pre-Consumed Recycle Content, Max	-	2%	2%
Post-Consumed Recycle Content, Max	-	10%	10%

Materials Specifications

FLAT

