BUILDING TRUST

PRODUCT DATA SHEET

Wabo®Flex 5304

Aluminum Wall and Ceiling Profile with TPE insert

DESCRIPTION

Wabo®Flex 5304 is an aluminum wall and ceiling expansion-joint profile incorporating a flexible, replaceable thermoplastic elastomer (TPE) insert.

USES

Wabo®Flex 5304 is designed for wall and ceiling expansion joints in shopping malls, etc. The system can be used in external applications as well.

FEATURES

- Anodized aluminum profile
- Replaceable TPE insert
- Easy onsite installation
- Multi directional movement
- Easy to clean
- Ideal to be used in shopping malls

PRODUCT INFORMATION

Composition	Aluminum (6063-T5) Thermoplastic Elastomer (TPE)
Packaging	Supplied in standard 3-meter profile lengths
Colour	Black, gray and cream
Appearance and colour	
Shelf life	**Thermoplastic elastomer (TPE):** 5 years if stored in a cool, dry environment, protected from direct sunlight, UV radiation, ozone, and excessive humidity.

Aluminum Alloy (6063-T5): Indefinite provided the material remains free from excessive corrosion, mechanical damage, or other deterioration that could affect its intended performance.

Storage conditions

The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +15 °C and +25 °C.

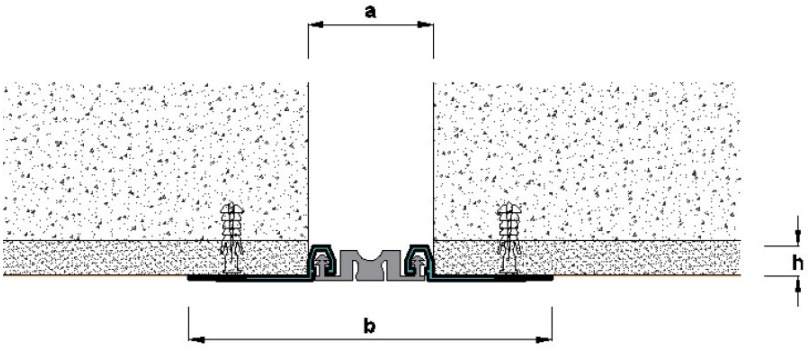
Density

Thermoplastic elastomer (TPE)	~1.21 g/cm³
Aluminum Alloy (6063-T5)	~2.7 kg/m³

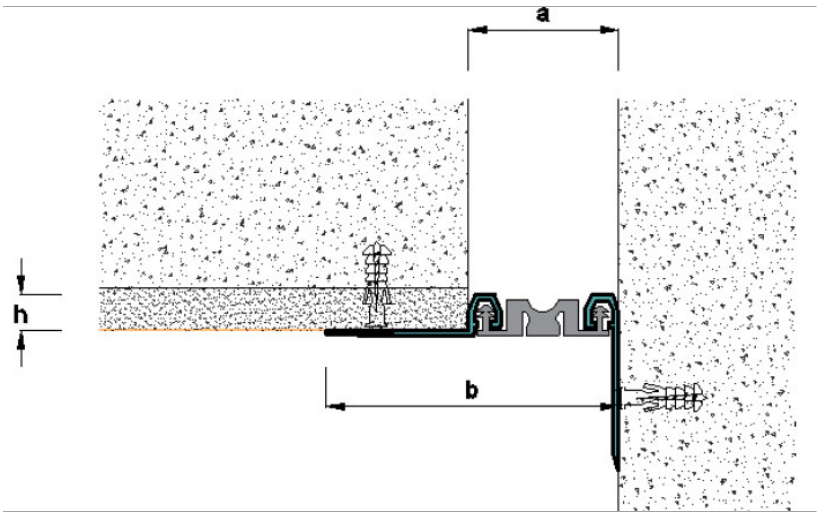
Dimensions

Profile Code	5304-050	5304-050C
Joint Width (a)	50 mm	50 mm
Top Surface Width (b)	145 mm	98 mm
Installation Depth (h)	12 mm	12 mm

Wabo®Flex 5304-050:



Wabo®Flex 5304-050C:



Melting point

Aluminum Alloy (6063-T5)	~600 °C

TECHNICAL INFORMATION

Shore A hardness

Thermoplastic elastomer (TPE)	~65 (ISO 868)

Modulus of elasticity in flexure

Aluminum aloy (6063-T5)	~69.5 GPa

Tensile strength

~1.85 MPa (at 100 %)	(ISO 37, DIN 53504)
~2.5 MPa (at 300 %)	
~4.2 MPa (at brake)	

Thermoplastic elastomer (TPE)

Movement capability

± 10 mm

Coefficient of thermal expansion

Aluminum aloy (6063-T5)	~23.5 x 10^{-6} /K

Chemical resistance	Alcohol	Excellent
	Sulphuric Acid	Good
	Detergent	Good
	Oliv oil	Fair
	Thermoplastic elastomer (TPE)	
Temperature resistance	Max. Dynamic Service Temperature	90 °C
	Max. Static Service Temperature	135 °C
	Thermoplastic elastomer (TPE)	
Thermal conductivity	Aluminum aloy (6063-T5)	~200 W/(m·K)
Electrical resistivity	Aluminum aloy (6063-T5)	~0.035 x 10-6 Ω·m
Water resistance	Thermoplastic elastomer (TPE)	Excellent
Elongation at break	Thermoplastic elastomer (TPE)	~600 % (ISO 37, DIN 53504)
Resistance to ozone	Thermoplastic elastomer (TPE)	Excellent

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

General Method Statement (GMS)

IMPORTANT CONSIDERATIONS

- Do not install if the joint's anticipated movement will exceed the system's movement range.
- Deliver product in each manufacturer's original, intact, labeled packaging. Protect the work area with appropriate plastic sheeting.
- Store all components in a clean, dry and off the ground location to protect from weather and construction activities.
- 4*50 mm screws and 6 mm plastic plug between 45 cm distance form both sides of profile. If the facade height is more than 15 meters installer must apply polyurethane sealant into channel of aluminium profile to prevent sliding of rubber.
- For advice, instructions, and fire and water barrier installation, please contact your local Sika representative.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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