BUILDING TRUST

PRODUCT DATA SHEET

Wabo®Flex 5313

Aluminum Wall / Ceiling Expansion Joint Profile with TPE inserts

DESCRIPTION

Wabo®Flex 5313 is aluminum wall or ceiling expansion joint profile with thermoplastic elastomer (TPE) inserts.

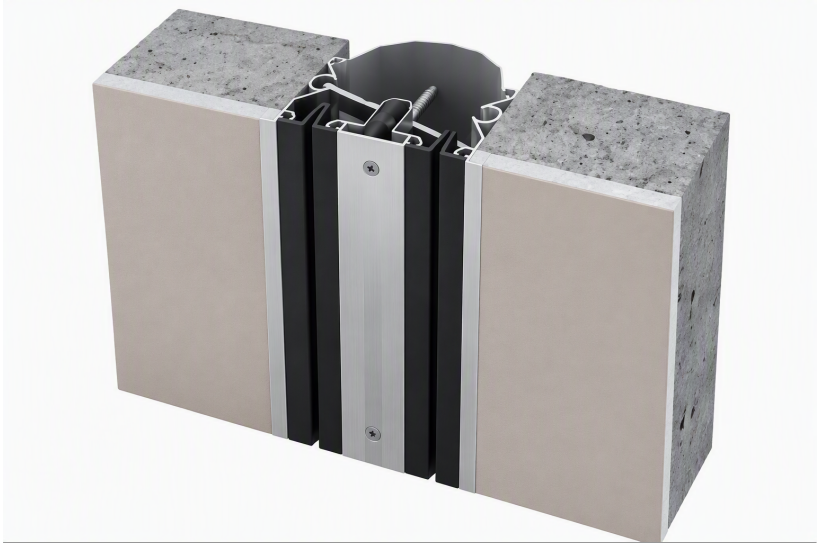
FEATURES

- Mill finish aluminum profile
- TPE insert
- Easy onsite installation

USES

Ideal for external facade systems.
Suitable for plaster, ceramic and suspended ceiling.

PRODUCT INFORMATION

Packaging	Supplied in standard 3-meter profile length
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

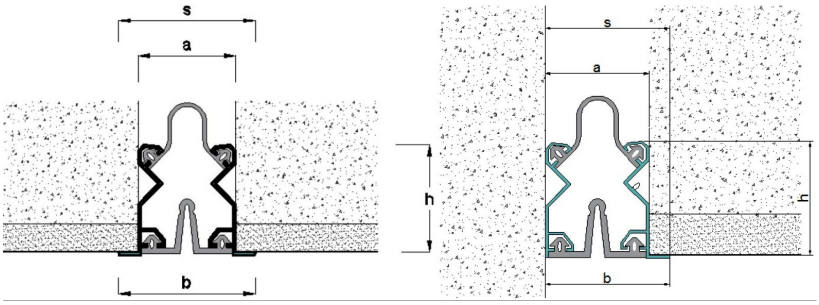
The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +15 °C and +25 °C.

Density

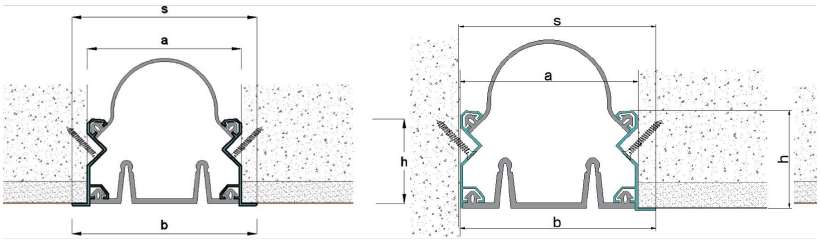
Thermoplastic elastomer (TPE)	~1.21 g/cm³
Aluminum Alloy (6063-T5)	~2.7 kg/m³

Dimensions

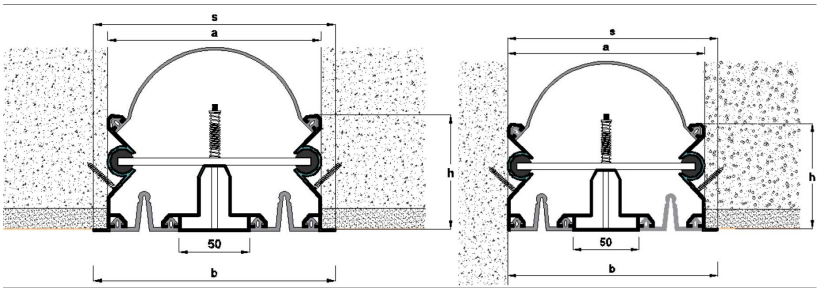
Profile Code	5313-050	5313-050C
Joint Width (a)	50 mm	50 mm
Total Movement	± 25 mm	± 25 mm
Surface Width (b)	70 mm	60 mm
Installation Depth (h)	55 mm	55 mm
Block Out Width (s)	70 mm	60 mm



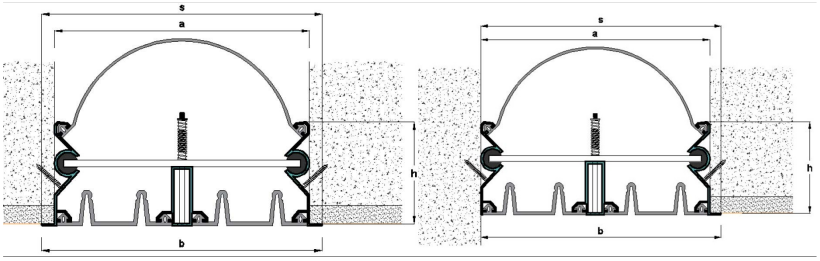
Profile Code	5313-100	5313-100C
Joint Width (a)	100 mm	100 mm
Total Movement	± 75 mm	± 75 mm
Surface Width (b)	120 mm	110 mm
Installation Depth (h)	55 mm	55 mm
Block Out Width (s)	120 mm	110 mm



Profile Code	5313-150	5313-150C
Joint Width (a)	150 mm	150 mm
Total Movement	± 75 mm	± 75 mm
Surface Width (b)	170 mm	160 mm
Installation Depth (h)	80 mm	80 mm
Block Out Width (s)	170 mm	160 mm



Profile Code	5313-200	5313-250	5313-200C
Joint Width (a)	200 mm	250 mm	200 mm
Total Movement	± 100 mm	± 100 mm	± 100 mm
Surface Width (b)	220 mm	270 mm	210 mm
Installation Depth (h)	80 mm	80 mm	80 mm
Block Out Width (s)	220 mm	270 mm	210 mm



Melting point	Aluminum Alloy (6063-T5)	~600 °C

TECHNICAL INFORMATION

Shore A hardness	Thermoplastic elastomer (TPE)	~65 (ISO 868)
Modulus of elasticity in compression	Aluminum aloy (6063-T5)	~69.5 GPa
Tensile strain at break	Thermoplastic elastomer (TPE)	~4.2 MPa (ISO 37, DIN 53504)

Movement capability

Profile code	Total Movement
5313-050/050C	± 25 mm
5313-100/100C	± 75 mm
5313-150/150C	± 75 mm
5313-200/200C	± 100 mm
5313-250	± 100 mm

Coefficient of thermal expansion	Aluminum aloy (6063-T5)	~23.5 x 10-6 / K

Chemical resistance

Alcohol	Excellent
Sulphuric Acid	Good
Detergent	Good
Olive Oil	Fair

Temperature resistance	Max. Dynamic Service Temperature	90 °C
	Max. Static Service Temperature	135 °C
Thermal conductivity	Aluminum aloy (6063-T5)	~200 W/(m·K)
Electrical resistance	Aluminum aloy (6063-T5)	~0.035 x 10-6 Ω·m
Tensile stress at specified elongation	Thermoplastic Elastomer (TPE) at 100 %	~1.85 MPa (ISO 37, DIN 53504)
	Thermoplastic Elastomer (TPE) at 300 %	~2.5 MPa (ISO 37, DIN 53504)
Water resistance	Excellent	
Elongation at break	Thermoplastic elastomer (TPE)	~600 % (ISO 37, DIN 53504)
Resistance to ozone	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.
- 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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