BUILDING TRUST

PRODUCT DATA SHEET

Wabo®Flex 5203

Aluminum Wall and Ceiling Expansion Joint Profile with TPE insert

DESCRIPTION

Wabo®Flex 5203 is a mill finish aluminum profile with TPE insert for wall and ceiling applications.

FEATURES

- Easy onsite installation
- Multi-directional movement

USES

- Gypsum board application
- Ceramic tile application

PRODUCT INFORMATION

Composition	Aluminum (6063-T5) Thermoplastic Elastomer (TPE)
Packaging	Supplied in standard 3-meter profile length
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 when stored under the recommended storage conditions and 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.

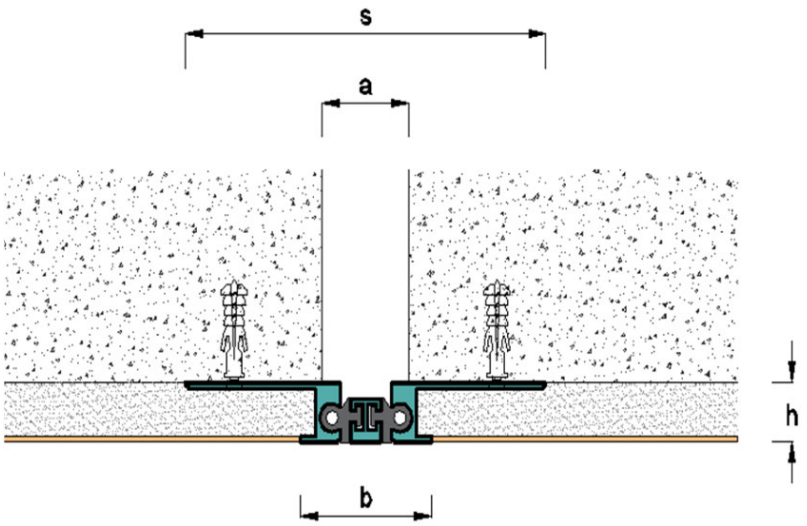
Density

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

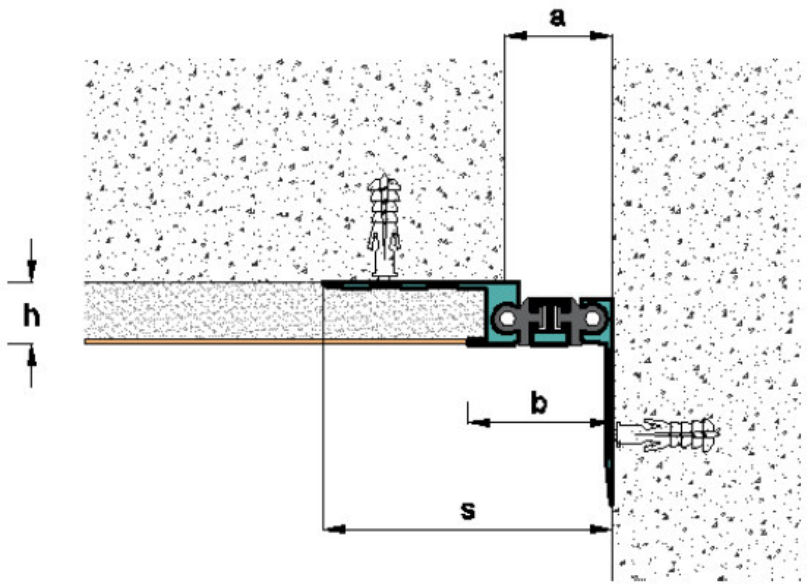
Dimensions

Profile Code	5203-030	5203-030C
Joint Width (a)	30 mm	30 mm
Top Surface Width (b)	46 mm	35 mm
Installation depth (h)	17 mm	17 mm
Block out width (s)	125 mm	80 mm

Wabo®Flex 5203-30:

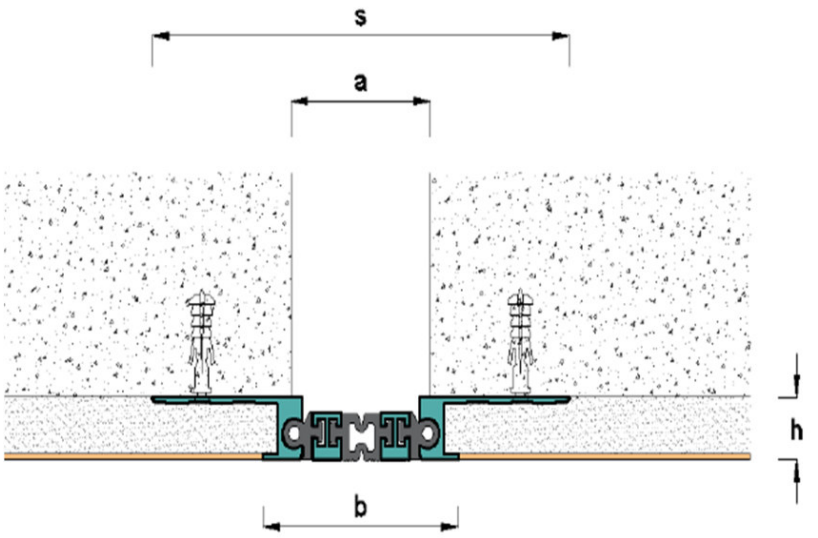


Wabo®Flex 5203-30C:

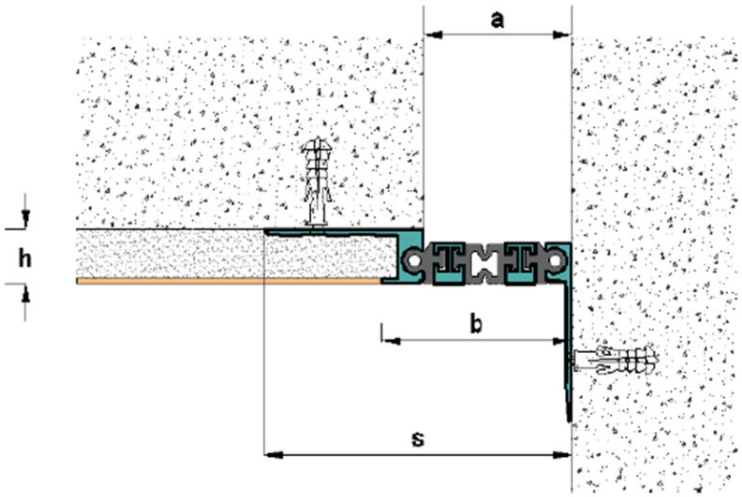


Profile Code	5203-050	5203-050C
Joint Width (a)	50 mm	50 mm
Top Surface Width (b)	70 mm	65 mm
Installation depth (h)	17 mm	17 mm
Block out width (s)	150 mm	105 mm

Wabo®Flex 5203-50:



Wabo®Flex 5203-50C:



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 Alloy (6063-T5)	~69.5 GPa
Tensile strain at break	Thermoplastic Elastomer (TPE)	~4.20 MPa (ISO 37, DIN 53504)
Movement capability	**5203-030/30C** ±5 mm	**5203-050/50C** ±10 mm
Coefficient of thermal expansion	Aluminum Alloy (6063-T5)	~23.5 x 10^{-6} /K

Chemical resistance	Alcohol	Excellent
	Sulphuric Acid	Good
	Detergent	Good
	Olive Oil	Fair
	Thermoplastic elastomer (TPE)	
Temperature resistance	Max. Dynamic Service Temperature	90 °C
	Max. Static Service Temperature	135 °C
Retention of properties after heat ageing	Compression Set (72h/23 °C)	~39 % (ASTM D395, Method B)
	Compression Set (22h/70 °C)	~65 % (ASTM D395, Method B)
	Thermoplastic elastomer (TPE)	
Thermal conductivity	Aluminum Alloy (6063-T5)	200 W/(m·K)
Electrical resistivity	Aluminum Alloy (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	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.
- For installation 4*50 mm screw and 6 mm PVC plugs are necessary.
- For advice and instructions please contact 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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