IG Masonry Support

Technical Data Sheet
IG Nylon Shims

Product Overview

IG Masonry Support's Nylon Shims are 1/4" thick, serrated to interlock with each other, and designed to fit between the support structure and IG's masonry support brackets. They allow for precise adjustments to accommodate slight variations in cavity width.

Nylon Shims are manufactured from Polyamide 6 injection-moulding grade with 40% glass fibre reinforcement and are heat-stabilized.

Enhanced features

- Suitable to facilitate small increase in cavity widths
- Strong and rigid
- Good dimensional accuracy
- Abrasion resistant
- Good thermal properties

Properties

Physical	Unit	Conditions	Test Method	Values
Density	g/cm³	23 °C	ISO 1183	1,46
Viscosity number	ml/g	(0,005 g/ml H_2SO_4)	ISO 960D	145
Moisture absorption	%	23 °C / 50% r.h.	ISO 62	1,8
Water absorption	%	23 °C / saturation in water	ISO 62	6
Flammability	-	1,5 mm	UL-94	HB
Mechanical	**Unit**	**Conditions**	**Test Method**	**Values (dry/cond.)***
Tensile modulus	MPa	23 °C, 1 mm/min	ISO 527-1-2	13.000 / 8.500
Tensile strength	MPa	23 °C, 50 mm/min	ISO 527-1-2	205 / 138
Elongation at yield	%	23 °C, 50 mm/min	ISO 527-1-2	- / -
Elongation at break	%	23 °C, 50 mm/min	ISO 527-1-2	3 / 3,5
Thermal	**Unit**	**Conditions**	**Test Method**	**Values**
Melting temperature (DSC)	°C	10 °C/min	ISO 3146	222
Heat Deflection Temperature (HDT)	°C	1,8 MPa - 0,45 MPa	ISO 75-1-2	213 - 215
Thermal coefficient of linear expansion	10^{-4}/K	23-80 °C long - 23-80 °C transv.	ISO 11359-1/-2	0,16 - 0,6

*dry = dry as moulded / cond.= conditioned according to ISO 1110

Characteristics

IG's Nylon Shims are distinguished by high mechanical strength, hardness, rigidity, thermo stability (melting point 428°F), and resistance to hot lubricants and water. The components have particularly high dimensional stability and creep strength.

Installation guidelines

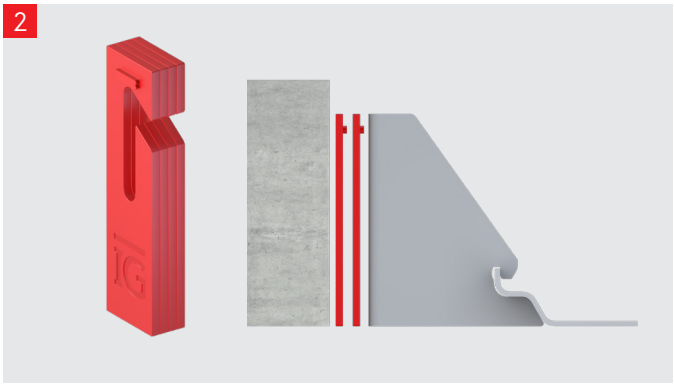
IG's Nylon Shims are designed to accommodate minor increases in cavity width and should be installed between the Thermal Shim and the bracket. Depending on the type of anchor up to four Nylon Shims can be used per bracket. Guidance is given by the IG Masonry Support Technical Team.

Follow the steps below to ensure correct installation:

1

Once the anchor is in position (still un-torqued), prepare the correct number of Nylon Shims as recommended by IG's Technical Team.

2

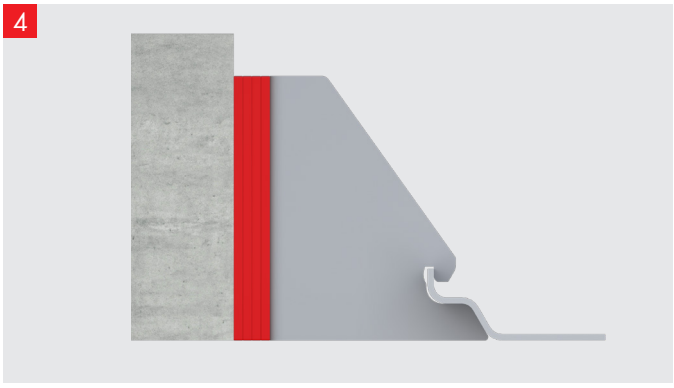


Interlock the shims by engaging the male side with the female side and hook them around the pre-positioned anchor. If required, you can still use one Thermal Shim.

3

Engage the male side of the shim with the serrated section of the masonry support bracket and the lock washer, ensuring the top of the shim aligns with the top of the bracket. The serrated portion of the shim must engage with the top two teeth of the bracket's serrated section.

4



Proceed with the installation guidance for the masonry support system you are installing.

Installation training

Correct installation is essential for the success of each project. Therefore, IG Masonry Support has made every effort to help installers by creating an easy-to-use installation guides for each masonry support system including information on correct shimming.

Disposal

Nylon shims are fully recyclable, thereby contributing to waste reduction and lowering their overall carbon footprint at the end of service life. Recycling must be conducted through authorized commercial waste management providers equipped to perform specialized recycling processes.

Specifying and ordering

IG Masonry Support's designers and engineers provide a full design service for each of its products, tailored to the requirements of each project.

Nylon Shim Sales and Inquiries

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