GRANOR
RUBBER & ENGINEERING

BUILT ON MOVEMENT

SELECTED PRODUCT RANGE

GRANOR® ELASTOMERIC LAMINATED BEARINGS

SYSTEM COMPONENTS

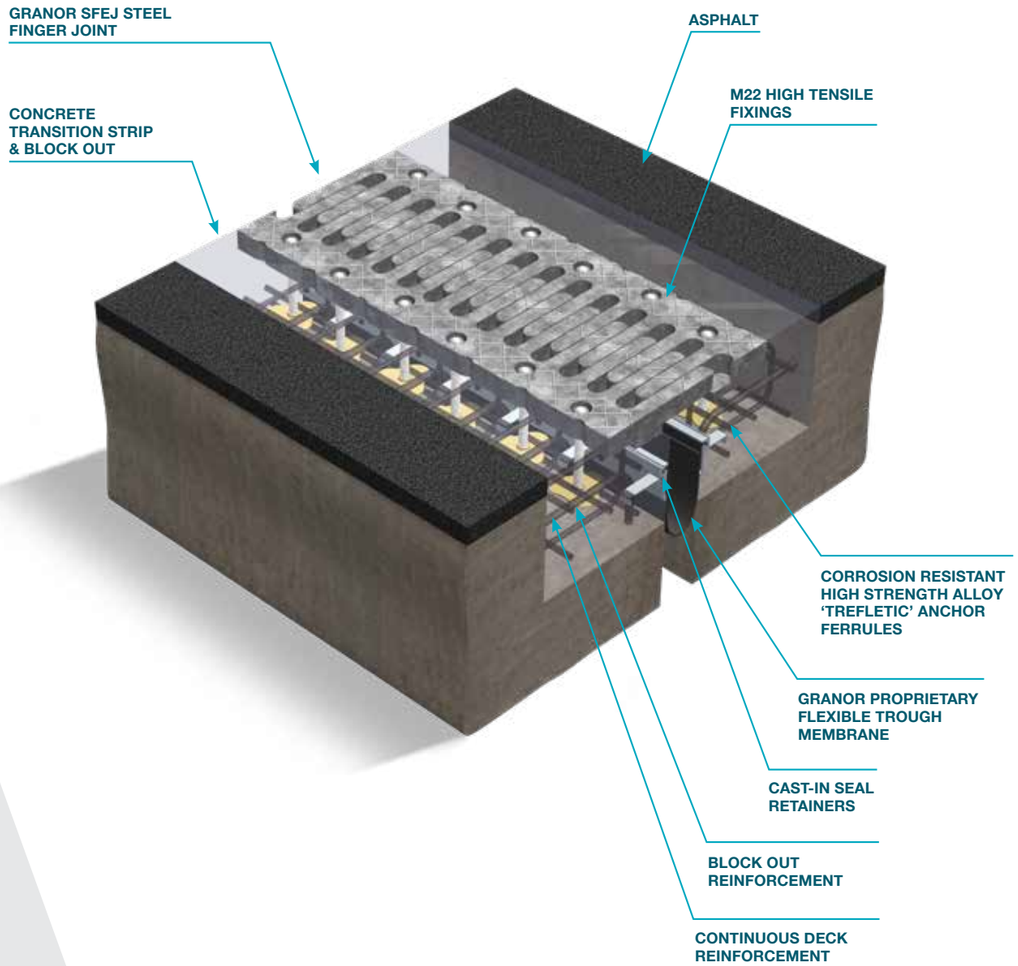
Design, manufacture and subsequent National Association of Testing Authorities (ILAC) MRA certified testing of Granor Elastomeric Bearings is to recognised Australian and international standards.. Granor supplies bearings in accordance with Australian Standard AS5100.4 from natural rubber (other standards include: BS5400, EN1337, AASHTO). State authority regulations are catered for including RMS B281, TMR MRTS81, MRWA spec 860, VicRoads 652, etc. Granor's standard practice is to fully load test every single laminated bearing we supply (whether required to by specification or not).

Granor has a full design capability and can custom design non-standard sized laminated bearings for unique project requirements. Current maximum elastomeric laminated bearing size capabilities are: 2000 x 2000 x 440 millimeters. Current maximum testing capabilities are: 50,000kN vertical and 5,000kN shear. As the supplier with the longest continuous supply record of laminated bearings in Australia, Granor is proud to support the bridge and heavy construction sectors with its more than 40 years of proven quality supply history.

LONG LIFE WITH ZERO MAINTENANCE

ETIC SFEJ SERIES STEEL FINGER EXPANSION JOINT

Robust Bridge deck expansion joints which accommodate large movements ranging from 150mm up to 600mm total capacity.



STRUCTURAL BEARINGS

STANDARD DUTY
SLIPJOINT "SERIES SJJ"

HEAVY DUTY
SLIPJOINT "SERIES HDSJ"

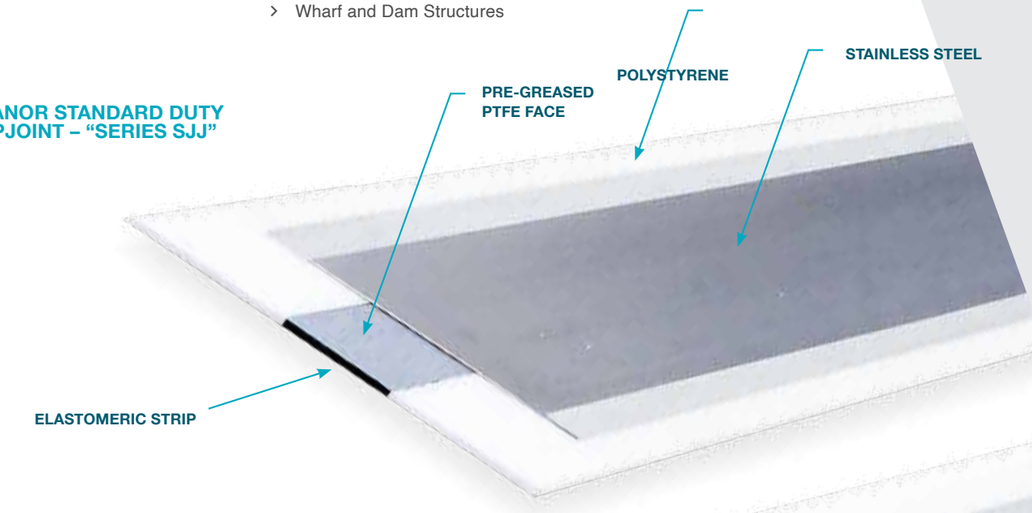
APPLICATIONS

- Corbel / Slab and Half Joint interfaces where a low friction sliding support is required.
- More commonly used with poured slabs but can also be used with precast units.
- Slip interface over masonry block walls.
- Shopping Centres.
- Multilevel Buildings
- Hospitals and other large structures.
- Wharf and Dam Structures

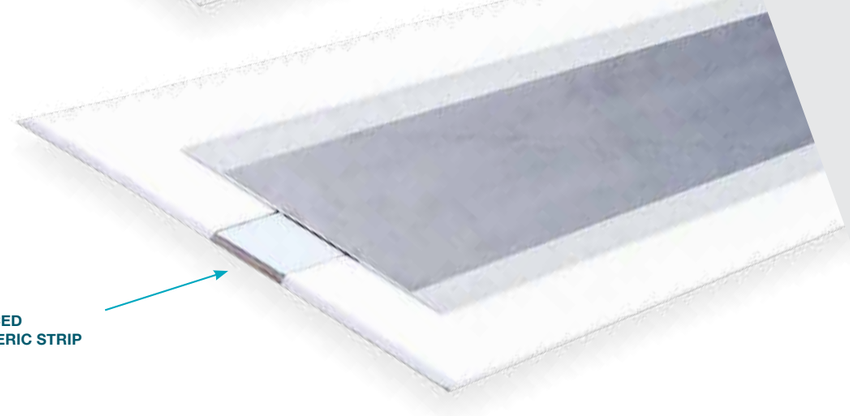
100 YEAR DESIGN LIFE

ZERO MAINTENANCE

GRANOR STANDARD DUTY SLIPJOINT – "SERIES SJJ"



GRANOR HEAVY DUTY SLIPJOINT – "SERIES HDSJ"



XJS® POLYMER NOSED EXPANSION JOINT SYSTEM

SYSTEM COMPONENTS

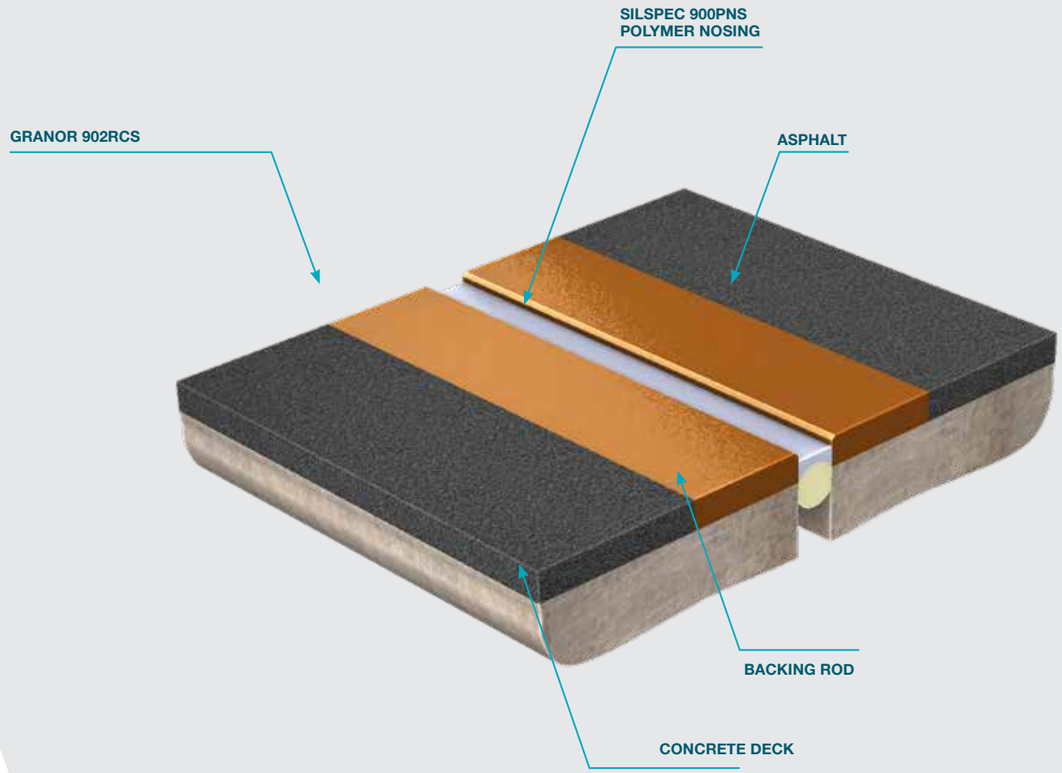
SILSPEC® 900 POLYMER NOSING SYSTEM (PNS)

Is a two-component, rapid curing liquid polymer. Due to its relatively low viscosity, Silspec® 900 PNS is easy to mix and place. It cures to a dense, semi-flexible polymer that is resistant to chemicals, weather, abrasion and impact. The polymer is mixed with Silspec® Blended Aggregate. This combination forms a polymer-based mortar for joint repair or joint nosing repairs.

DOW CORNING® 902 RCS JOINT SEALANT

Is a two component, easy to install, 100% percent silicone rubber sealant designed to seal the expansion joint gap. The rapid curing ability of Dow Corning® 902 RCS joint sealant allows it to accommodate typical daily thermal movements and/or differential joint movement caused by traffic. Since it is self-levelling, Dow Corning® 902 RCS Joint Sealant can conform to irregularly shaped joints without tooling.

RAPID INSTALL WITH PROVEN LONGEVITY



GRANOR® WIZFLEX SERIES

THE WIZFLEX® EXPANSION JOINT SYSTEM

The Wizflex® Expansion Joint System is based on a combination of compression seal technology and epoxy-bonded rubber seal technology, developed and patented by Granor after years of experience with waterproof expansion joint systems.

A specialist epoxy adhesive is applied to the joint gap walls and a high-quality extruded elastomeric profile, which is then easily pressed into the joint gap.

The profile design ensures that the side walls of the profile remain vertical and push against the sides of the gap while the epoxy adhesive sets. This mechanism is paramount in achieving maximum bond strength between the elastomeric profile and the sides of the gap. The compression seal concept also ensures maximum movement range by providing a fully collapsible profile and also allowing a substantial extension when the joint is fully opened.

APPLICATIONS

The Wizflex® Expansion Joint System is suitable for use in Bridge expansion joints, multilevel car parks and other elevated structures where high-quality waterproof joints are required.

FEATURES

- Reliable long term sealing outcomes
- Puncture proof heavy duty profiles
- No metallic components – quiet when driven on
- Durable UV resistant elastomer compounds
- Suitable for both new work and replacement outcomes
- No Coverplate required

MECHANICAL / STRUCTURAL BEARINGS

GRANOR® STRUCTURAL BEARINGS - “SERIES BGSU”

GRANOR® ANTI UPLIFT RESTRAINT STRUCTURAL BEARINGS - SERIES "BGSU"

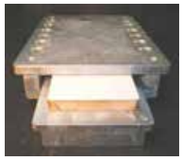
Granor® Part No.	Vertical Load (SLS) (kN)	Lateral & Uplift Load (SLS) (kN)	Transverse Movement +/- (mm)	Long. Movement +/- (mm)	Overall Dimensions (L x W x H) (mm)	TOP Attachment Bolts	TOP Bolt Centres (mm)	BOTTOM Attachment Bolts	BOTTOM Bolt Centres (mm)
BGSU-100-0/40	100	40	0	40	220 x 190 x 79	4-M16 8.8	100 x 100	4-M16 8.8	50 x 50
BGSU-200-0/40	200	60	0	40	260 x 230 x 90	4-M16 8.8	150 x 150	4-M16 8.8	75 x 75
BGSU-300-0/40	300	80	0	40	285 x 270 x 96	4-M16 8.8	150 x 150	4-M16 8.8	100 x 100
BGSU-400-0/40	400	80	0	40	320 x 290 x 96	4-M16 8.8	200 x 200	4-M16 8.8	150 x 150
BGSU-500-0/40	500	100	0	40	355 x 320 x 96	4-M20 8.8	250 x 250	4-M20 8.8	150 x 150
BGSU-600-0/40	600	120	0	40	375 x 340 x 96	4-M20 8.8	250 x 250	4-M20 8.8	150 x 150
BGSU-700-0/40	700		0	40					
BGSU-800-0/40	800		0	40					
BGSU-900-0/40	900		0	40					
BGSU-1000-0/40	1000		0	40					

INTRODUCTION

Granor® BGSU bearings are designed to allow movement in one direction while restraining uplift. These bearings are designed to be maintenance free and extremely durable. They are used extensively to support mining conveyor systems and other mining infrastructure. The bearings are custom designed for each application; to withstand any given load and movement capacity. They comprise a galvanised steel bottom plate supporting a Graflon® sliding pad. The pad slides on a highly polished Stainless-steel surface backed with a galvanised steel top plate. Anti-Uplift bars are fastened to the top plate and restrain the bottom plate. Insulated BGSU’s can also be designed for operation in “hot” environments such as smelters. Standard “off the shelf” designs with load capacities from 100 to 600KN are available with +/-40mm movement capacity. A 100kN bearing is thus called up as: BGSU-100-0/40. (See table below) The bearings can be designed for whatever your load requirements.

FEATURES

- Light and thin design, easy to handle and install manually.
- Anchoring can be custom designed to fit structure’s bolt centres.
- Corrosion resistant and Jam-free.
- Minimum maintenance requirements.
- Extremely durable even in harsh environments.
- Provides sliding movement while supporting or holding down the structure.



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