



BRIDGE EXPANSION JOINTS

ELASTOMER PROPERTIES

Hardness (IRHD)	ISO 868	65±5
Density (g/cm ³)	ISO 2781 (Met. A)	1.18±0.03
Modulus at 300% (N/mm ²)	ISO 37	> 8
Tensile Strength (N/mm ²)	ISO 37	> 15
Elongation at break (%)	ISO 37	> 450
Tear resistance (N/mm)	ISO 34-1 (Met. A)	> 15
Viscosity (°Mooney)	UNE 53521	45±5
Compression set 24h/72°C (%)	ISO 815-1	< 30
Resistance to ageing, 7 days hot air 70°C	Hardness (IRHD)	ISO 188
	Tensile strength (%)	ISO 188
	Elongation at break (%)	ISO 188
Resistance to de-icing, 14 days 23°C, 4% NaCl solution	Decrease of Hardness (IRHD)	ISO 1817
	Elongation at break (%)	ISO 1817
Resistance to ozone (%) (Pr.A)	ISO 1431-1	No cracks

STRUCTURAL STEEL STRENGTH PROPERTIES

EN 10025-2 Hot rolled products - Non-alloy structural steels				
Symbol	Description	S235	S275	S355
f _y (MPa)	Yield strength	235	275	355
f _u (MPa)	Ultimate strength	360	430	490

MOVEMENT RANGES

Movement (mm)			
Type	Features	Min.	Max.
VFB	Small gaps	±25	±37.5
VF	Light-medium traffic	±25	±180
EJV	Hight traffic	±21.5	±165
EJM	Long mov. Long GAP	±200	±400

ANCHORAGE SYSTEM

Threaded rods steel DIN 976-1 (Grade 8.8 or superior electro zinc-plated)
Hexagon nuts, with Polyamide Insert, Self-locking DIN EN ISO 10511 (DIN 985)



STEEL PREPARATION

Surface preparation is the most important factor affecting the total success for bonding rubber compounds to metals during vulcanization.

Before sandblasting process, we assure that steel have a Grade P3 surface preparation according to ISO 8501-3.

- Sandblasting SA 2 1/2
- 1st coat Adhesive primer
- 2nd coat Cover adhesive

DRAINAGE MEMBRANE

Optional membrane system for maximum waterproofing. It consist in a 1.5mm EPDM strip seal

RUBBER

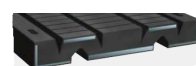
Rubber compound is a mix of natural rubber with SBR, with excellence abrasion properties. It is possible to manufacture expansion joints completely by chloroprene, or covered with it.

TYPES

VFB



VF



EJV

EJM

