

Elastomeric
Expansion Joint
(Neoprene joint)



ATAYA
CONSTRUCTION PRODUCTS



Description

Rubber Expansion Joints designed to accommodate structure movement from $\pm 50\text{mm}$ to $\pm 100\text{mm}$. The Expansion Joints system consists of molded rubber which is steel reinforced.

General features

- Our Products are waterproof expansion joints that allow absorption of the deck movements.
- These joints are manufactured with rubber elements and are restrained to the structure with proper anchor bolts.
- The reinforcing metal profiles made of steel are completely inserted and vulcanized to the rubber, this process is a total guarantee and allows a longer life to the product.
- The rubber compound has been intentionally formulated to resist the oil, grease, petrol, salt and sand without besides, suffering premature ageing phenomena due to sun rays, salt and snow.
- Anchor bolts, made of steel and protected with anticorrosion treatments, absorb the elastic reactions and all the other kind of mechanical solicitations.

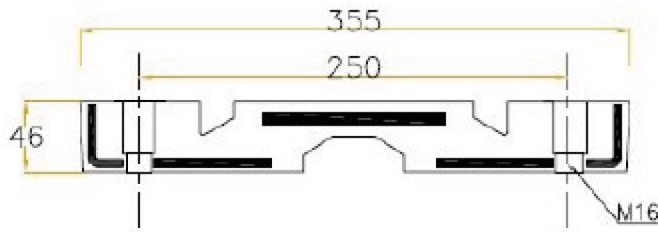
Physical Properties

The rubber compound shall have the physical properties conforming to the following requirements in table(1).

Table (1) - Physical and mechanical properties of elastomer

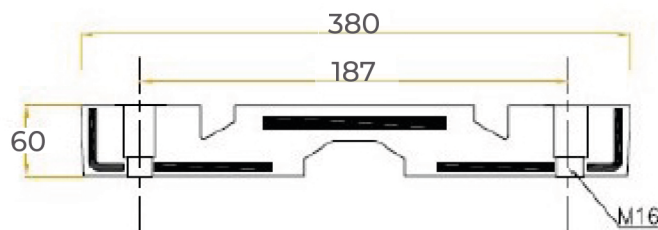
Characteristics	Requirements	Test methods
Hardness	65 ± 5	ISO 7619-1
Tensile Strength (MPa)	≥ 15.5	ISO 37
Minimum Elongation at break(%) Modulus Test Piece	$\geq 350\%$	ISO 37
Compression Set(%) 25% - 24 h at 70°C	$NR \leq 20$	ISO 815
G modulus (N/mm ²) e	$0.9 \pm 15\%$	EN 1337-3 Annex F
Ozone Resistance 50 p.p.h.m.20% elongation after 96h at 40°C	No cracks	ISO 1431-1
Variation after accelerated ageing 96 h at 70°C Maximum change from unaged value		ISO 188-90
Hardness (IRHD) (%)	± 10	ISO 7619-1
Tensile strength (%)	± 10	ISO 37
Elongation at break (%)	± 10	ISO 37

Bridge Expansion Joint Models



ATAYA Neoprene Expansion Joint
AT100

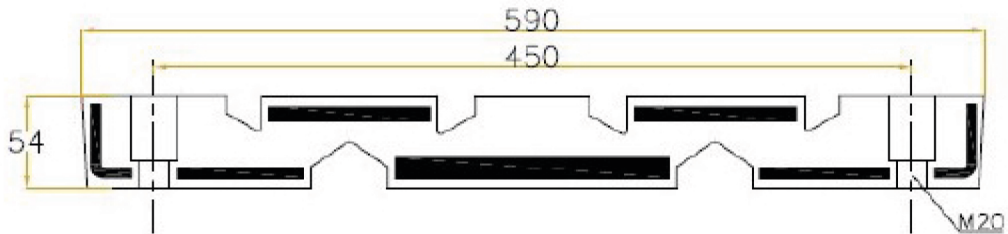
Model	Longitudinal movement	Transversal movement	A (mm)	B (mm)	L (mm)	M	D (mm)
AT100	±50mm	±10mm	355	46	1000	M16	18



ATAYA Neoprene Expansion Joint
AT150

Model	Longitudinal movement	Transversal movement	A (mm)	B (mm)	L (mm)	M	D (mm)
AT150	±75mm	±10mm	380	60	1000	M16	18

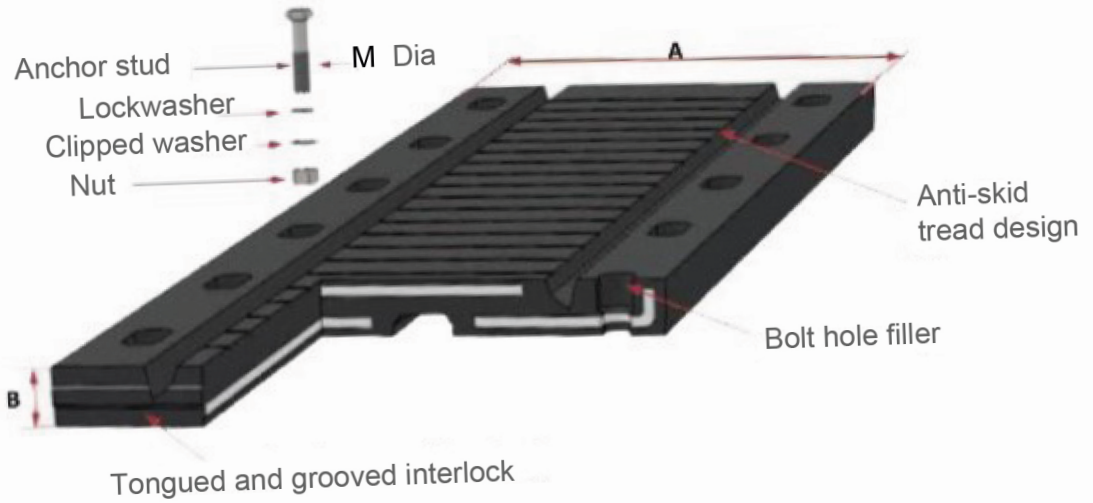
Bridge Expansion Joint Models



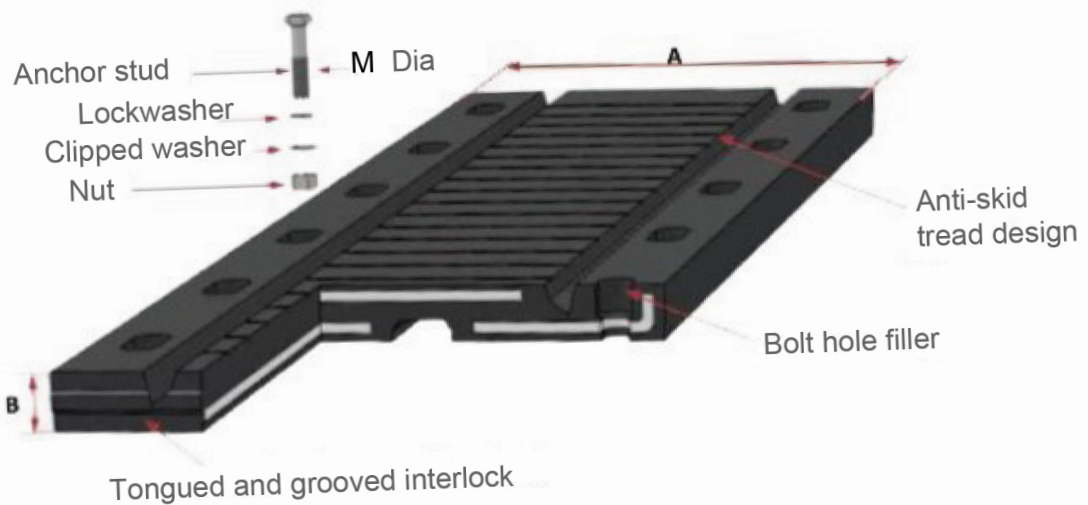
ATAYA Neoprene Expansion Joint
AT200

Model	Longitudinal movement	Transversal movement	A (mm)	B (mm)	L (mm)	M	D (mm)
AT200	±100mm	±10mm	590	54	1000	M20	22

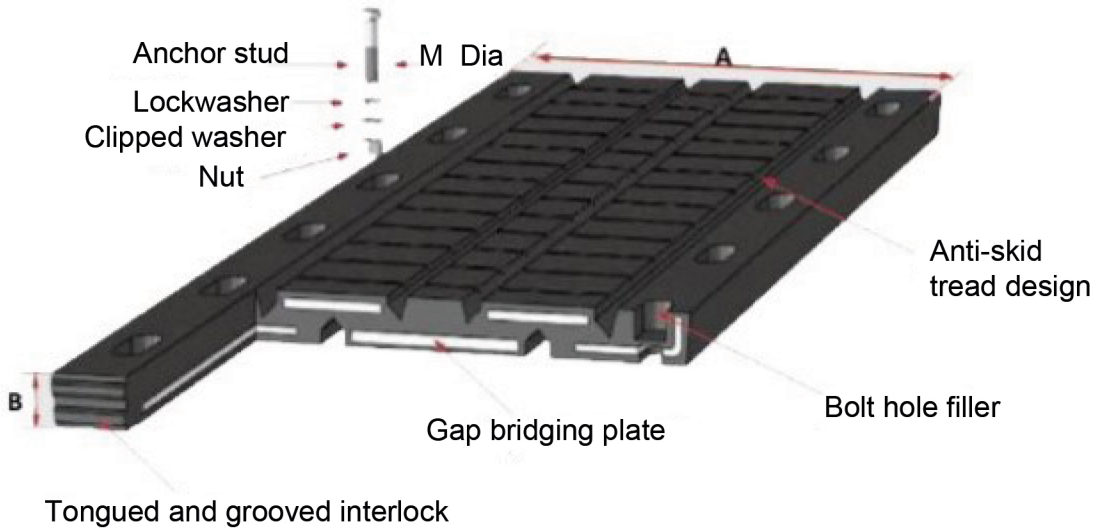
AT100 MODEL



AT150 MODEL



AT200 MODEL



CONTACT US

(+2) 02240 13246
(+2) 02208 20866
(+2) 02208 20855

Fax: (+2)222616112
Mob: 01020229940
www.ataya-egypt.com

12 El Batrawy St., in front
of Genena mall, Nasr city,
Cairo Egypt.