



FEATURES

PHYSICAL PATTERN

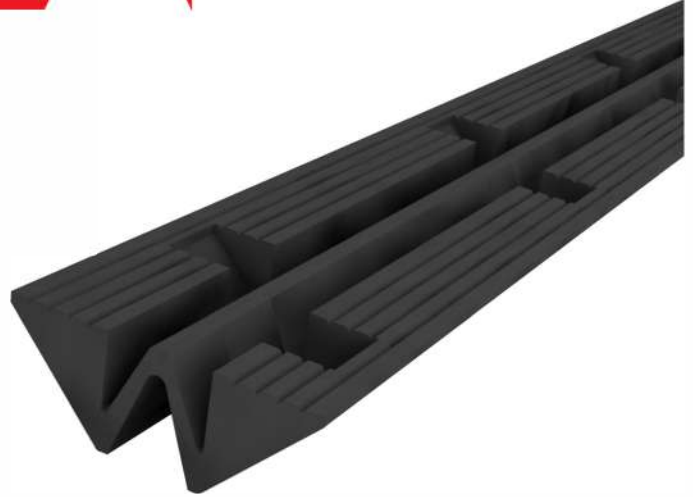
MB N-65 is the original-reinforced elastomeric mono block molded expansion joint of 65 mm movement of length 1 meter & 2 meter. In all sections there is tongue and groove fittings with tight end to end mating across decks and at curbs and are steel reinforced. It can be installed in new decks, or in rehabilitation projects and aged structures.

DIVERSITY OF EXPANSION IN VARIOUS DIRECTIONS

The main body of MB N 65 rubber absorbs and eliminates the several deformational defects in verticals, horizontal, inclined and rotational directions. It also absorbs skew movement which is one of its best feature.

TIME SAVING IN REPLACING AND MAINTENANCE

MB N 65 is a very simple featured joint, which is easy to replace in respect of its simplified constitution and physique when replacing old joint. It also same time and man power.



LEAK PREVENTIONAL FEATURE

The sealant finishing treatment on the contact and connecting parts prevent leak completely. The elastomer continuity basically prevent and preserve water leakage.

COST EFFECTIVENESS

MB N 65 joint is a very a reasonable and economical joint with a full package of excellent features. It saves man power in respect of its installation due to its simplified structure.

USAGE IN VARIETY OF CONSTRUCTIONAL WORKS

MB N 65 can be used in various kinds of bridges such as steel bridge, reinforced concrete bridge, pre-stressed concrete bridge, straight Bridge, curved bridge, skew bridge and interchanges, parking areas, in dams, etc.

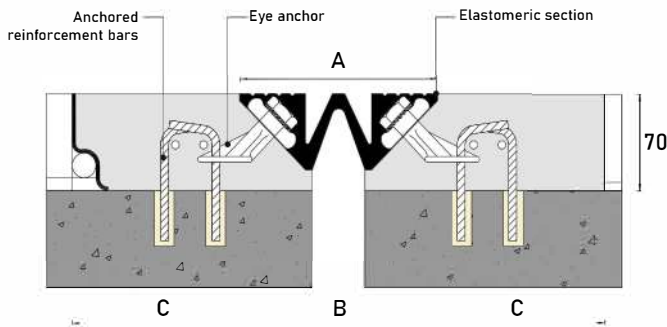
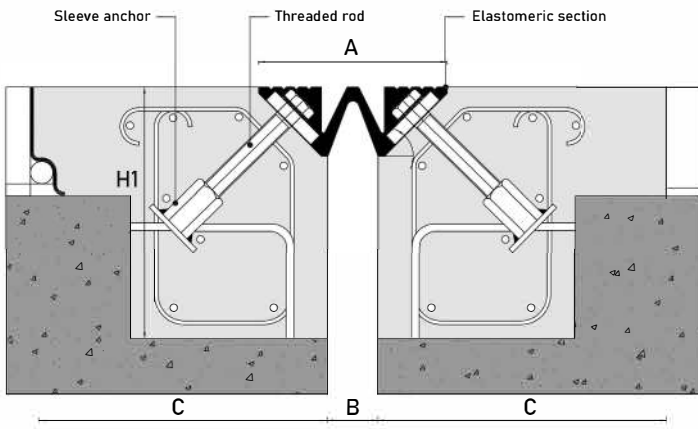
ELASTOMERIC STRIP SEAL

The neoprene material shall have the physical properties conforming to the following requirements.

DURABILITY AND STABILITY

MB N 65 is made up of particular combination of synthetic rubber, which is the main reason of its solidity and firmness. It can be used for a long time with its abrasional resistance and ovesion to weather consditions. Its steel plates absorbs and eliminates the shock due to the load when the automobile passes over it.



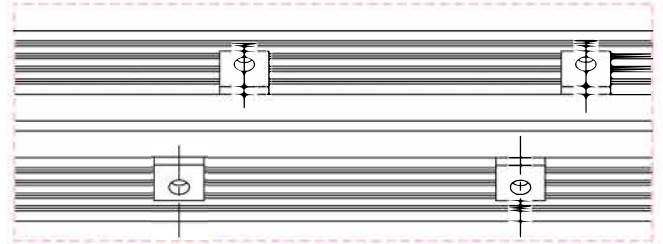
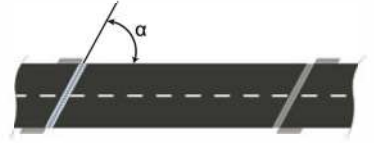


Type	A		B		C	H1
	min	max	min	max		
NB65	120	185	20	85	230	200

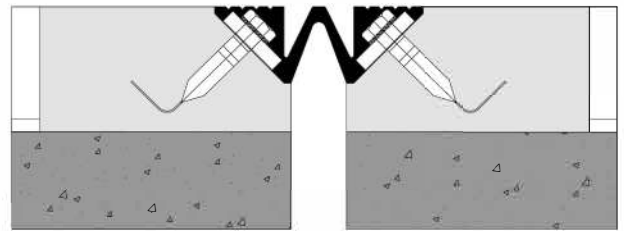
Dimensions in mm

MOVEMENT RANGE

The N joint is designed to accommodate 65 mm movement capacity only. For skew angles under 70 gr, the movement capacity is reduced. The table shows the capacity of N joints to accept movement depending on skew angle (α) of the main structure.



N Walkway Joint



Type	Straight (100gr)	90gr	80gr	70gr	60gr	50gr	40gr
NB65	65	65	65	65	50	41	36

N Joint With Anchor Parts



N Joint With Eye Anchor

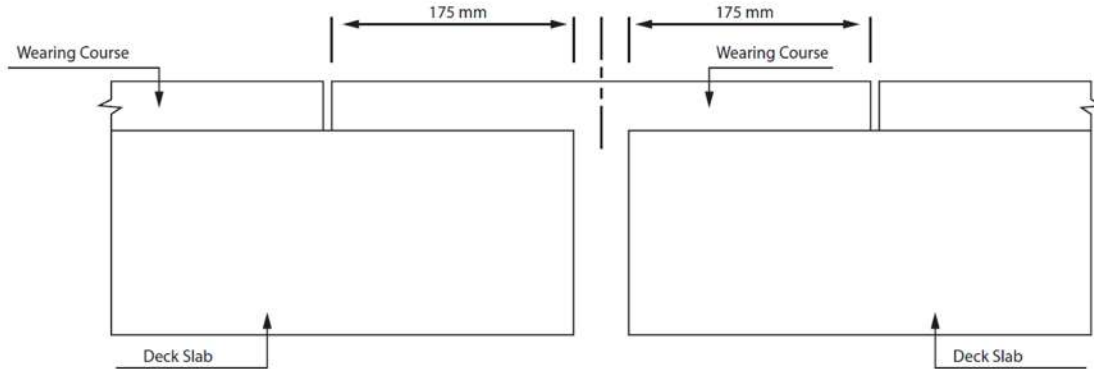


EXPANSION JOINT MB-N65 METHODOLOGY OF INSTALLATION

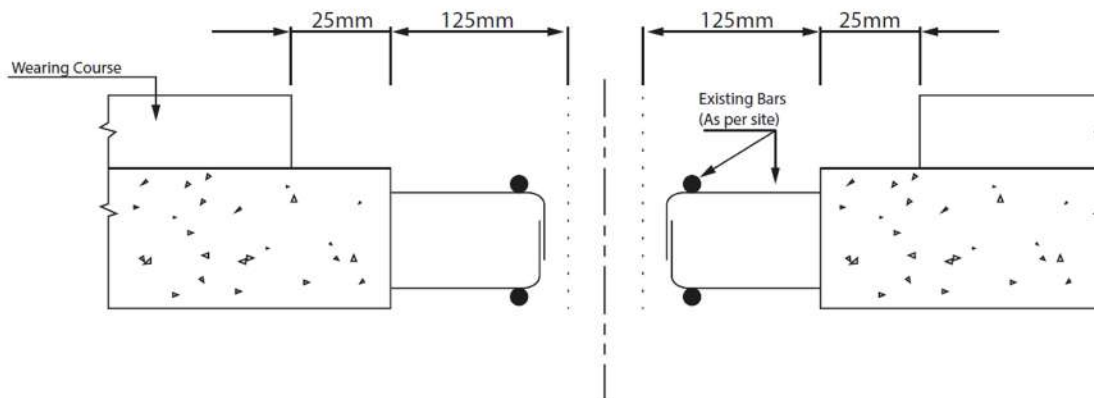


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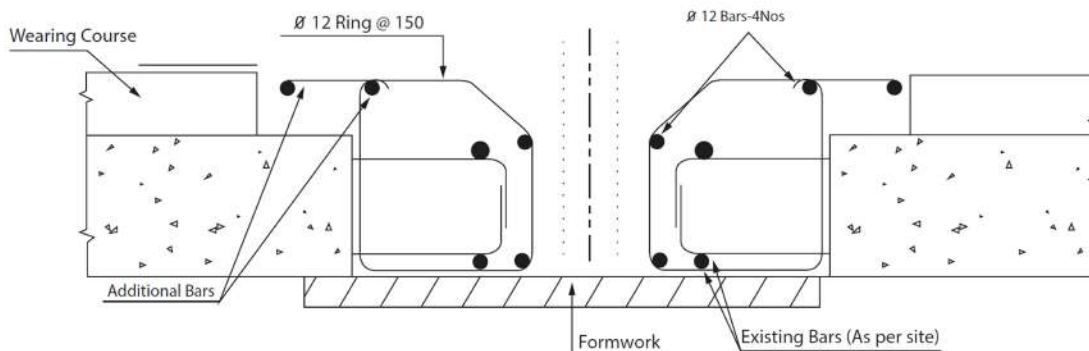
ASPHALT CUTTING



CLEARING THE BLOCK OUT



INSTALLATION OF ADDITIONAL REINFORCEMENT

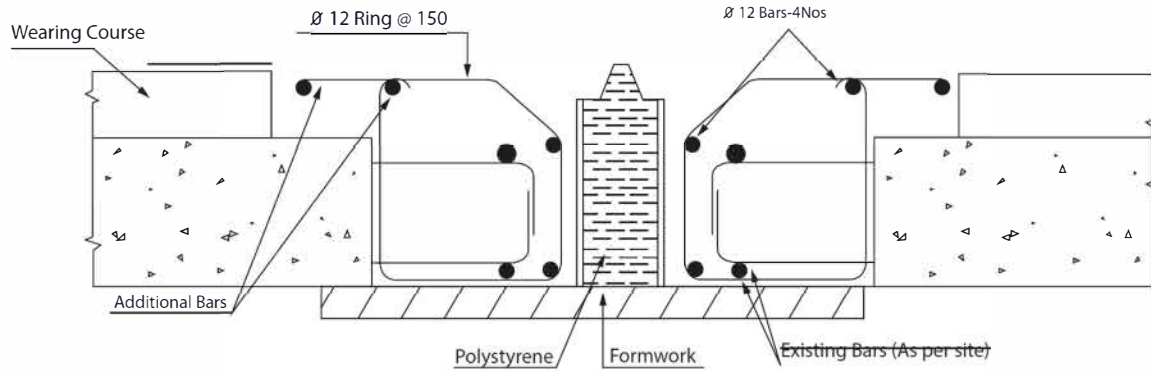


EXPANSION JOINT MB-N65 METHODOLOGY OF INSTALLATION

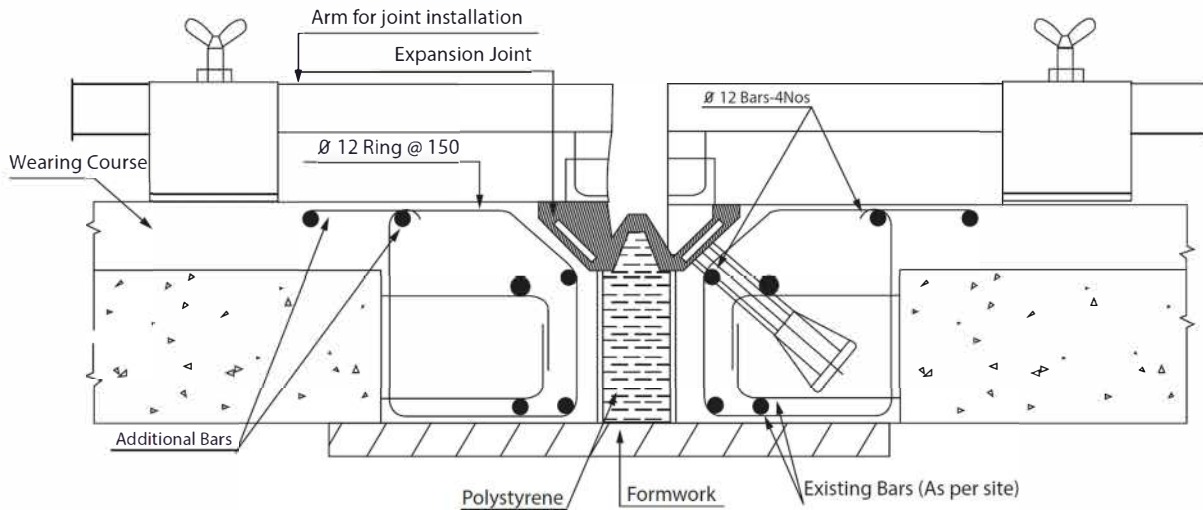


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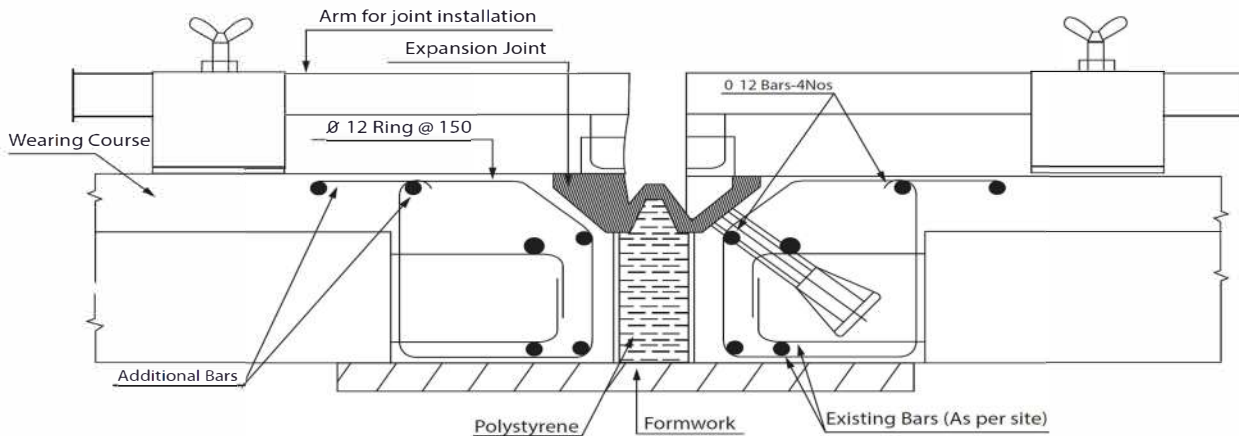
INSTALLATION OF SPACING FORMS



FIXING THE JOINT COMPONENT ON THE INSTALLATION ARMS



INSTALLATION OF ANCHORAGE





PHYSICAL PROPERTY	ASTM TEST METHOD	RESULT
Tensile Strength, min	D 412	127 Kgf / cm ²
Elongation at Break, min	D 412	400 %
Hardness, Shore A	D 2240	50 ± 5
Compression Set, 22 hrs at 70 degree C, Method B	D 395	20 % Max.
After accelerated aging for 70 hrs at 100 degree C	D 573	Changes
Tensile Strength, min	D 412	± 15
Elongation at Break, min	D 412	-40
Hardness, Shore A	D 2240	+ 10
Oil Deterioration – Volume increase after soaking in ASTM oil No. 3 for 70 hrs at 100 degree C	D 471	120 % Max.
Ozone Resistance, 20% strain, Exposure to 100 PPHM Ozone for 70 hrs at 38 degree C	D 1149	No Cracks
Low Temperature Brittleness for 5 hrs at -40 C	D 746	No Brittle



STEEL PLATE (ASTM A 36)	SPECIFIED (AASHTOM M251)	RESULT
Tensile Strength (Mpa)	>250.0	315
Yield Strength (Mpa)	>20.0	24
Elongation (Mpa)	<0.250	0.222
Phosphorus (%)	<0.040	0.020
Sulphur (%)	<0.050	0.001
Silicon (%)	<0.400	0.250

LIST OF TOLARENCES

Metal Reinforced Elastomeric Expansion Joints will comply with the following tolerances

Overall vertical Rubber dimensions	-0, +3 mm
Average total rubber thickness 32 mm or less	-0, +6 mm
Average total rubber thickness over 32 mm	
Overall horizontal Rubber dimensions	0, +6 mm
0.914 m or less	
Over 0.914 m	
Thickness of individual layers of Elastomer at any point with in the joints	±20% of the Design Value
Thickness of top and bottom layer	±20% of the nominal cover layer thickness
Parallelism with opposite face Top and Bottom sides	0.005 radians 0.02 radians
Edge cover of embedded laminates or connection members	± 3 mm