



SANDHYA ENTERPRISES

AN ISO:9001:5015 Certified Company

COMPRESSION SEAL EXPANSION JOINT

As per IRC 83 (Part II)2018 and MoRTH Specification

Make: "SANDHYAFLEX"

COMPRESSION SEAL EXPANSION JOINT



SANDHYA ENTERPRISES have been manufacturing, Supplier, exporter excellent quality creates sealing pressure by the use of reaction of rubber which is due to compressive deformation of the rubber profile. Compression seals which allows to successfully seal expansion joint. Elastomeric element which is highly resistant to deterioration from exposure to weather, sunlight, oils and also impact. our experts will not compromise only with normal quality and make sure that quality-approved rubber is used in the manufacturing process. Tested on several and different parameters of quality, provided Compressor Seal is available at pocket-friendly prices for the client. The provided seal is manufactured with utmost precision by the use of exceptional quality raw materials and also with use of pioneering technology.

Address: 5-24-1223/8/1, Ambedkar Nagar, Gajularamaram, Hyderabad – 500055.

AN ISO 9001:2015 Certified Company

Contact No: 9652998932

GSTIN: 36GNLPS1299P1ZS

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Website: www.sandhyaflex.com

WhatsApp: 9652998932

YouTube: www.youtube.com/c/SANDHYAENTERPRISES

Website : <http://www.sandhyaflex.com/pvc-water-...>

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Compression Seal Expansion Joints

Product

The SANDHYAFLEX Compression Seal Expansion Joint System is an extruded, neoprene rubber material. When compressed into a gap, this system provides an excellent sealing against the expansion and contraction.

Usage

The SANDHYAFLEX Compression Seal Expansion Joint System is used for small movement expansion joints, in deck of parking's, precasted structures and other types of concrete structures.

Benefits

The seal is compressed into place, providing a relatively flat profile surface that reduces tripping hazards and the collection of debris in the joint.

Exemptions

Performance of the SANDHYAFLEX Compression Seal Expansion Joint System is closely in line with the deck movement. Maintaining close tolerances is essential to the success of the expansion joint system, and this system should only be used in areas where small movements are expected.

Procedure of Installation

- 1) Joint openings to receive the SANDHYAFLEX Compression Seal Expansion Joint System must be clean, dry, sound, relatively smooth and free of voids, ridges, and sharp projections.
- 2) The expansion joint seals must be properly sized for the joint gap opening. Installation: The SANDHYAFLEX Compression Seal Expansion Joint System is installed by first applying a thin layer of lubricant cum adhesive to the side walls of the expansion joint gap. Then, the seal is compressed into the joint gap opening.

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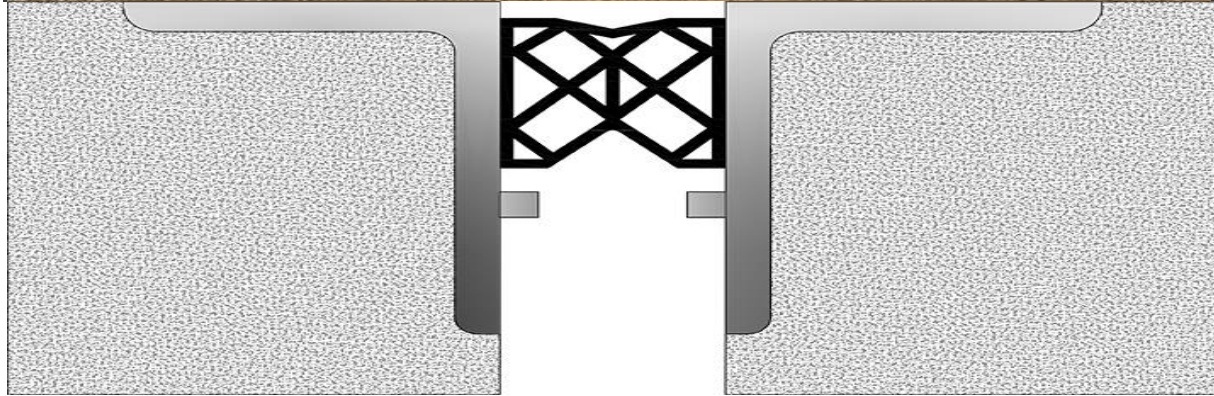


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PRODUCT CODE	SUITABLE JOINT OPENING	A	B	MOVMENT
SANDHYAFLEX-35	25	35	20	20
SANDHYAFLEX-50	35	50	50	25
SANDHYAFLEX-75	60	75	75	35
SANDHYAFLEX-100	75	100	75	50
SANDHYAFLEX-125	100	125	100	60
SANDHYAFLEX-150	125	150	100	75

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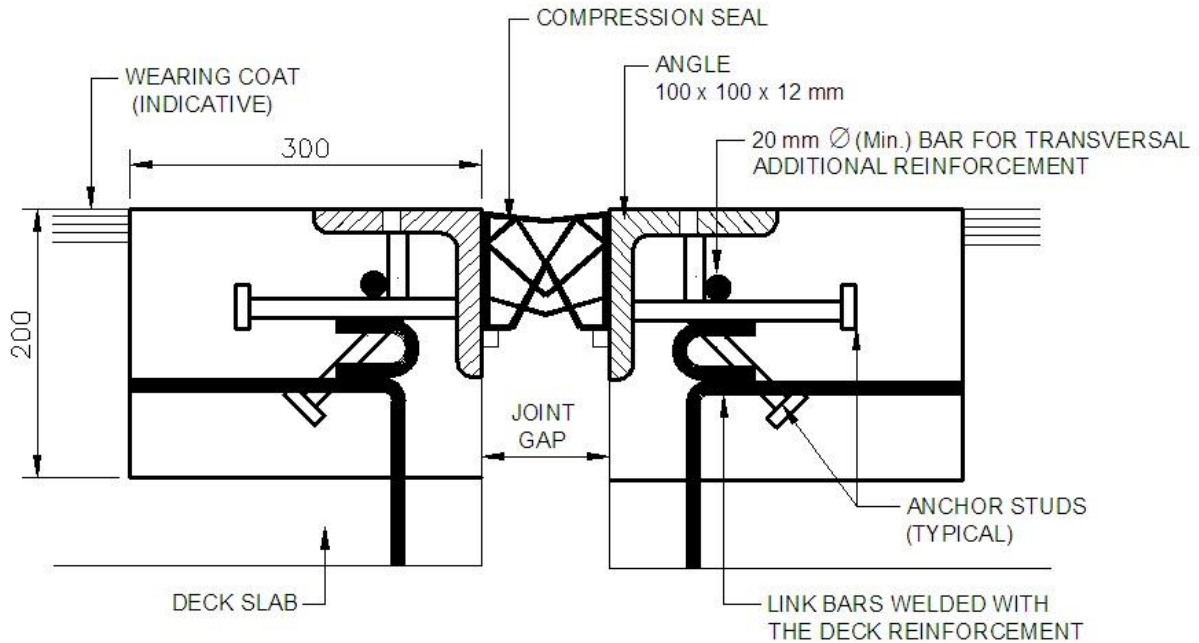


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CROSS-SECTION OF COMPRESSION SEAL EXPANSION JOINT

S. No	Tests	MoRTH Specification Section 2600, Clause 2607 Clause Number	Permissible Limits as per MoRTH Specification Section 2600, Clause 2607	Relevant Code for Testing Procedure/Method	Results
1	Physical Properties - Before Ageing				
	Hardness Test	Table 2600-1	58-68 Shore A	IS : 3400 (Part II)	60-62 Shore A
	Tensile Strength	Table 2600-1	11 MPa (Min)	IS : 3400 (Part I)	17.5 MPa
	Elongation at Break	Table 2600-1	350% (Min)	IS : 3400 (Part I)	415%
2	Ash Content	Cl. 915.1.3, IRC 83 (Part II)2015	5 % (Max)	IS : 3400 (Part XXII)	3.50%
3	Polymer Percentage	Cl. 915.1.3, IRC 83 (Part II)2015	60 % (Min)	IS : 3400 (Part XXII)	63.14%
4	Polymer	Table 2600-1	Chloroprene(CR)	ASTM D297	Chloroprene(CR)
5	Compression Set	Table 1 Cl. 915.2	-28 % (Max)	IS : 3400 (Part X)	16.22%

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6	Shock Elasticity	Table 2600-1	-25 % (min)	IS : 3400 (Part X)	27.25%
7	Tear Propagation Strength				
	Longitudinal	Table 2600-1	10N/mm (min)	IS : 3400 (Part 17)	45.22N/mm
	Transvers	Table 2600-1	10N/mm (min)	IS : 3400 (Part 17)	50.24N/mm
8	Swelling behaviour in ASTM Oil No 3 for 70°C for 116 hrs				
	Volume Change	Table 2600-1	-25 % (max)	IS : 3400 (Part 17)	-16.22%
	Change in Hardness	Table 2600-1	-20 Shore A (max)	IS : 3400 (Part 17)	-6 ShoreA
9	Physical Properties - After Ageing @ 70°C for 14days				
	Change in Tensile Strength %	Table 1 Cl. 915.2	- 20 % (Max)	IS : 3400 (Part IV)	-7.13%
	Change in Elongation at Break in %	Table 1 Cl. 915.2	- 20 % (Max)	IS : 3400 (Part IV)	-14.66%
	Change in Hardness	Table 1 Cl. 915.2	+ 5 Deg (Max)	IS : 3400 (Part IV)	+26

- Proven record.
- Cost effective solution.
- Ease of installation.
- No mechanical anchors or metal components. Installed by compressing the seal into place.
- Flat top surface.
- Non-serrated top provides a smooth riding surface.
- Neoprene rubber.
- Provides excellent resistance to weather, sunlight, UV, and chemical (Neoprene only).

Edge Beam

This shall be a Hot Rolled Steel Section or Cold Rolled Cellular Steel Section with suitable Profile to mechanically Lock lock the sealing element in place throughout the normal movement cycle. Further, the configuration shall be such that the section has a **minimum thickness of 10mm** all along its cross section (Flange & Web). Thickness of lips holding the seal shall not be less than 6mm, the minimum height of the **edge beam section shall be 80mm**. The minimum **cross section area of the edge beam shall be 1500mm²**

- a. 100mm Width x 82mm Height x 10mm thick

Anchorage

Edge beam shall be anchored to the deck by reinforcing bars, or anchor plates cast in concrete or a combination of anchor plate and reinforcing bars, Anchor bars, shall engage the main structural reinforcement of the deck and in case of anchor plates or loops, this shall be achieved by passing transverse bars through the loops or plates.

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The minimum thickness of anchor plate shall be 12mm, Total cross section area bar on each side of the Joint shall not be less than 1600mm Sq. per meter length of the Joint and the centre to centre spacing shall not exceed 250mm. The Ultimate resistance of each anchorage shall not be less than 600KN/M in any direction

Material

The steel for edge beam shall conform to any of the steel grade corresponding to RST 37-2 or 37-3 (DIN), ASTM A36 or A588, CAN/CSA Standard G40.21 Grade 300 W or equivalent

Anchorage steel shall conform to IS:2062 or equivalent.

All steel sections shall be protected against corrosion by hot dip galvanising or any other approved anticorrosive coating with a minimum thickness of 100 micron

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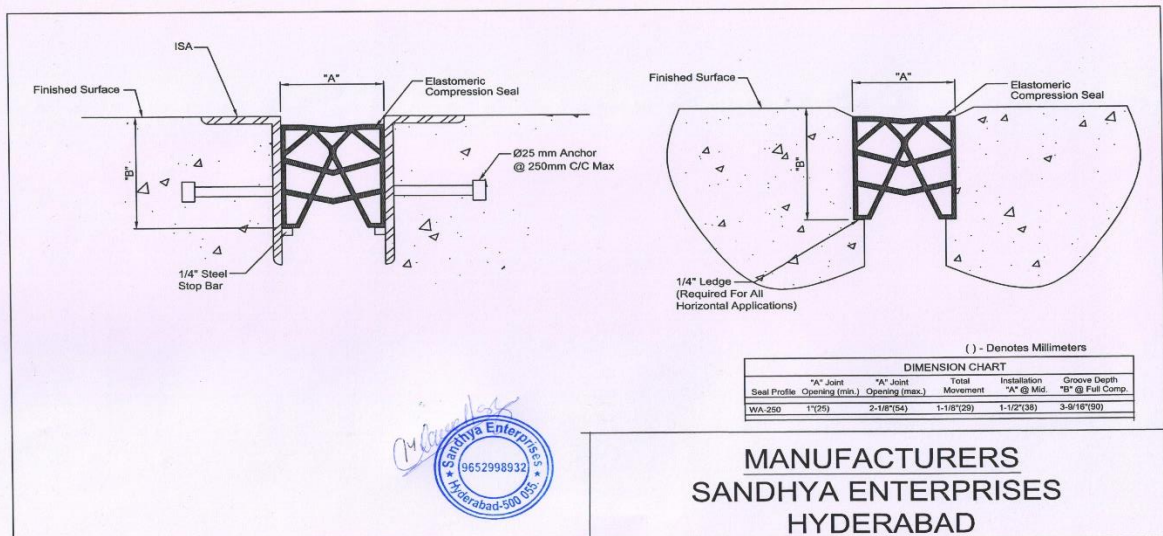


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Client List of Strip Seal Expansion Joint

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S.No	State	Name of Company Or Costumers
1	Odisha	Trinath Construction
2	Chhattisgarh	Rahul Construction
3	Maharashtra	Eagle Infra India
4	Ranchi	Sudha Construction
5	Chhattisgarh	Chhabra Constrution Co.
6	Andhra Pradesh	Navya Sri Construction
7	Kharsia	Rajesh Kumar Agarwal
8	Karnataka	RAMSHREE GLOBAL CONSTRUCTIONS PVT LTD
9	Jharkhand	The Maintenance Management Group
10	Odisha	Himansu Sekhar Nayak
11	Karnataka	S.M. Autade Pvt Ltd,
12	Odisha	SANDHYA CONSTRUCTION
13	Andhra Pradesh	KVR PROJECTS PRIVATE LIMITED
14	Jharkhand	Mini Construction
15	Maharashtra	J.D. Dighe & Sons
16	Jharkhand	KRISHNA KUMAR SINGH
17	Pune	Pilane Construction Company,
18	Karnataka	Keshava kiyaan Constructions
19	ODISHA	SANDHYA CONSTRUCTION
20	Chhattisgarh	Sunil Kumar Agrawal
21	Jharkhand	Dheeraj Krishna Constructions Pvt Ltd
22	Jharkhand	Nirmata Engineering Construction Co Pvt Ltd

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Chloroprene of strip seal element shall conform to Clause 915.1 of IRC:83 (Part-II).

1. Edge beam shall be placed in such a manner that the grooves are positioned properly.
2. Steel structure and main reinforcement shall be anchored with proper welding.
3. Alignment shall be checked for both steel structures, if required by using suitable device.
4. Recess shall be filled with high quality of the concrete not less than M 35 grade.
5. If any installation brackets were used, shall be removed after the concrete has cured.
6. SANDHYAFLEX elastomeric strip seal shall be cut into the required length and inserted between the beams by using the proper device and to be ensured that the bulb of the seal is getting into the steel grooves of the both edge beams.
7. When the recess concrete has become set, a sturdy ramp shall be placed over the joint to protect the exposed steel beams and the elastimeric seal from the traffic.
8. Without carriageway surfacing, expansion joint shall not be exposed to traffic loading

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IMAGES OF COMPRESSION SEAL EXPANSION JOINT

S.No	Description	Images
1	Neoprene Strip with Anchoring Rod	
2	Compression Seal Expansion Joint with 50mm Gap	

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3		Compression Seal Expansion Joint Ga[50mm Neoprene Compression Seal size:50x50mm		
4		Compression Seal size:50mmx50mm		
5		Compression Seal Expansion Joint with Fixing		
6		Extruding Neoprene Rubber Compression Seal		
7		Compression Seal with Fixture		
8		Complete Assemble Compression Seal Expansion Joint		

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BUSINESS POLICY

Inquiry

Quotation

Purchase Order

1. Billing Address.

2. Delivery Address

3. GST No

4. Contact No

Performa Invoice

Advance Payment

Take in Production as per Purchase Order

After Completed Consignment Inform to Client for Balance Payment

Dispatch the Material

Provide LR Copy

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Bank Details	
COMPANY NAME	SANDHYA ENTERPRISES
Bank	HDFC Bank Ltd
Branch	5-80,HMT Road,Chintal, Jeedimetla,Qutubulapur Mandal Dist. R R ,Hyderabad-500054 Telangana
Account No	50200016352482
IFSC	HDFC0001041
PAN No	GNLPS1299P
GST NO	36GNLpPS1299P1ZS
IEC	0916915042
AD Code	05114228381149
MSME	TS20B0028147

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