



SANDHYA ENTERPRISES

AN ISO 9001:2015 Certified Company

**Plot No: 5-24-1223/5/1, Ambedkar Nagar Gajularamaram, Near of UMCC Hospital,
Qutubullapur Mandal R.R. Dist. Hyderabad -500055 Telangana State India.**

Contact No: 9652998932, 95501921831,

Email: sandhyaprises@gmail.com, sandhyarubber@gmail.com,

Website: www.sandhyaflex.com, www.sandhyaenterprises.co.in

BRIDGE EXPANSION JOINT

Make: "SANDHYAFEX"

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%
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



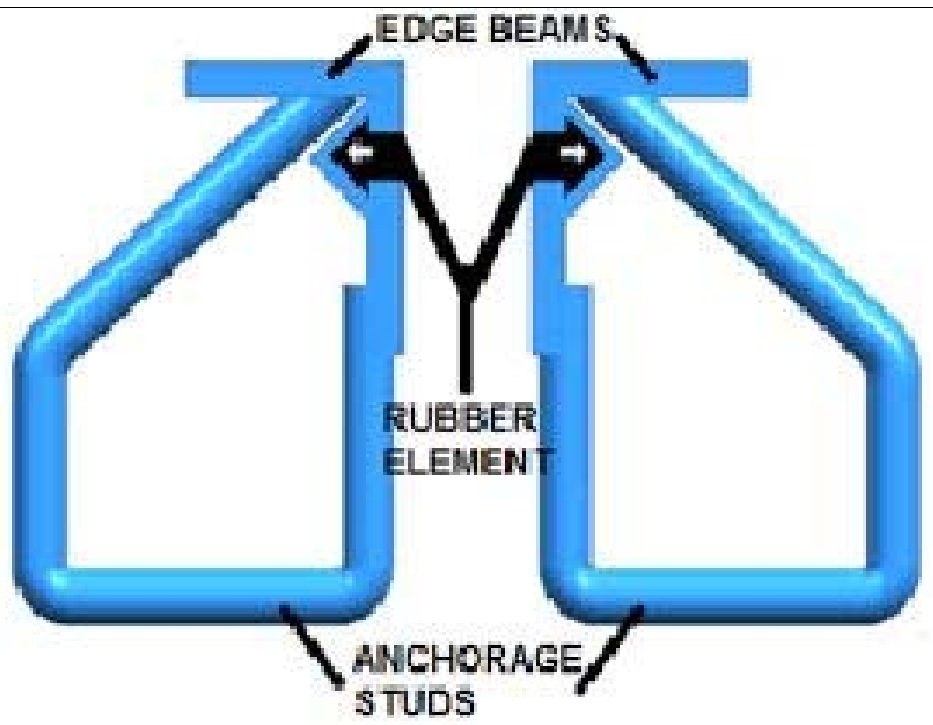
SANDHYFLEX BRIDGE SEAL EXPANSION JOINT

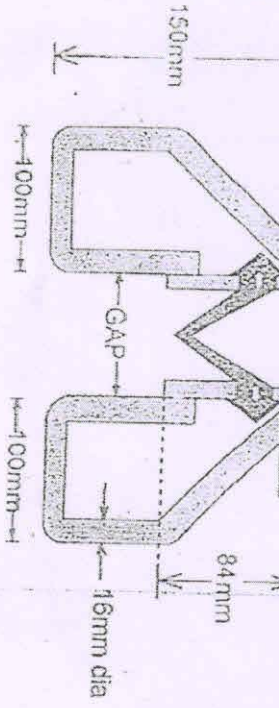


READY STOCK STRIP SEAL EXPANSION JOINT



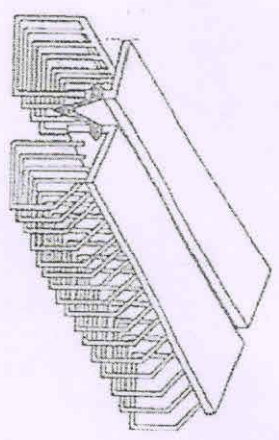
SANDHYAFLEX BRIDGE EXPANSION JOINT



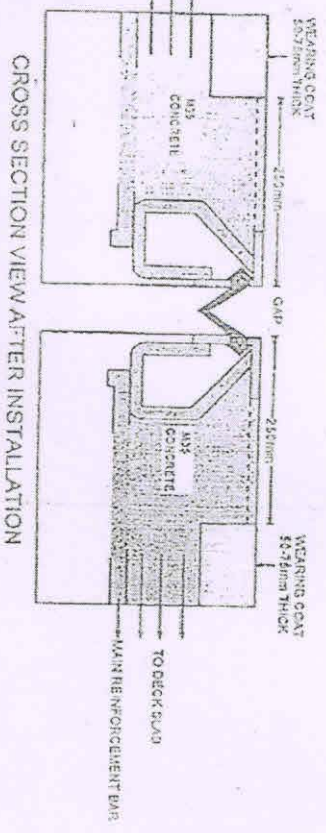


- a) Area of cross section : 1300mm² per side.
- b) Thickness : 16mm
- c) Height : 84mm
- d) Anchorage bar : 16mm dia @ 250mm c/c
- e) Specification : Mouth section 2003 clause 2007

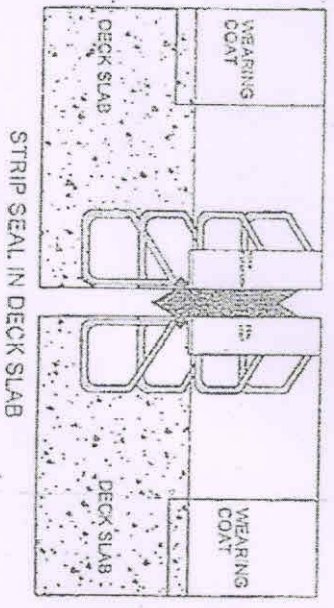
Material : Edge beam : ASTM A 36 grade
 Anchorage : IS : 2002
 Expansion seal : Mech Section 2003 para 11.



WEB STEEL GROOVE
 OVERALL CROSS SECTION OF THE EDGE BEAM AT ONE SIDE
 TOTAL HEIGHT ANCHORAGE BAR
 6MM THICK PROFILE TO RUBBER SEAL
 1500 SQ.MM
 82MM
 16 dia ANCH TO THE DESIGN WEB EDGE BEAM C/C



CROSS SECTION VIEW AFTER INSTALLATION



STRIP SEAL IN DECK SLAB

NOTE : NOT TO SCALE
 ALL DIMENSIONS ARE IN MM

DRAWN	APPROVED
Kumar	Rajesh

STRIP SEAL EXPANSION JOINT
 DESIGNER/VENDOR :
SANDHYA ENTERPRISES
 HYDERABAD

DATE : _____

DESIGN NO. SE/EJ/005

Bridge Expansion Joint Gap 40.0mm (Movement up to 80mm). Bridge Expansion Joint consist of two edge beams with anchorages and with Neoprene sealing element held firmly in the housing of edge beams that guarantee the water tightness the joint. The maximum gap between the edge beams at the road surface when the joint fully opens due to maximum contractions of the deck shall be limited to 80mm for comfortable passage of traffic. The edge beams protects the adjacent bridge deck concrete from damage due to vehicular impact and also transfer the vehicular loads to the deck structures through robust anchorage system. Typical Bridge Expansion Joint is shown in the figure below.

Bridge Expansion Joint

Rs : 2800 / R.Mtr

GST:18% Extra

Packing and Forwarding Extra

TOP MNAGMENT



SANDHYA CHAUDHARY



MITHILESH CHAUDHARY

Carbon Free Rubber Hose



CARBON FREE RUBBER HOSE

Carbon free rubber hoses are available with or without asbestos cover

APPLICATION

These are specially designed hoses to carry cables that can conduct upto 11KVA and above.

FEATURES

A synthetic carbon free white tube is used inside to provide the strength and resistance against high heat and electricity.

Asbestos cover is provided on the outer side for longer life.

Can handle the working pressure ranging from 7 kg/cm² to 15 kg/cm²

TECHNICAL SPECIFICATION

Nominal bore (in mm)	Tolerance on Nominal bore (in mm)	Number of reinforcement (ply)	Working Pressure (Kg.f/cm ²)	Testing Pressure (Kg.f/cm ²)	Bursting Pressure (Kg.f/cm ²)
12.5	0.75	3	10	20	40
16.0	0.75	3	10	20	40
20.0	0.75	4	10	20	40
25.0	1.25	4	10	20	40
28.0	1.25	4	10	20	40
31.0	1.25	4	10	20	40
35.0	2.00	4	10	20	40
38.0	2.00	4	10	20	40
50.0	2.00	5	10	20	40
56.0	2.00	5	10	20	40
60.0	2.50	5	10	20	40
63.0	2.50	6	10	20	40
70.0	2.50	6	10	20	40
75.0	2.50	6	10	20	40
88.0	2.50	6	10	20	40
100.0	2.50	6	10	20	40

Water Delivery Rubber Hose Pipe



Enterprises AN ISO:9001;2015 Certified Company is manufacture a
Supplier of Water Delivery Rubber Hose Pipe Specification:

Size: 3" ID to 16" ID

EWorking Pressure -2.5 to 5kg/cm²

Color: Black

Temperature- 100Deg C

Top: Plain

Lining : Synthetic Rubber High Water Resistance

Reinforcement: High Quality and Heat Resistance Fabric and Tyre C
Reinforcement.

Cover: Weather Resistance Synthetic Rubber

REGULAR SIZE:

SANDHYAFLEX-CFRH-80NB-3Inch ID

SANDHYAFLEX-CFRH-100NB-4Inch ID

SANDHYAFLEX-CFRH-125NB-5Inch ID

SANDHYAFLEX-CFRH-150NB-6Inch ID

SANDHYAFLEX-CFRH-200NB-8Inch ID

SANDHYAFLEX-CFRH-250NB-10Inch ID

SANDHYAFLEX-CFRH-300NB-12Inch ID

SANDHYAFLEX-CFRH-140NB-14Inch ID

SANDHYAFLEX-CFRH-400NB-16Inch ID

SAND BLASTING RUBBER

RUBBER HOSE FOR SAND BLASTING

As per IS 5894/90

APPLICATION

These rubber hose for sand and blasting are used to carry the abrasive material such as sand at a very high pressure. The application is in ordinance factories, manufacturing workshops and other heavy engineering realted works. The level of strength os this hose is very high so that it can satisfy the need of the work. Manufactured to provide the top quality to the hose.



TECHNICAL SPECIFICATION

SIZE		TYPE-I			TYPE-II		
MM	INCH	Working Pressure Kgf/cm ²	Proof Pressure Kgf/cm ²	Bursting Pressure Kgf/cm ²	Working Pressure Kgf/cm ²	Proof Pressure Kgf/cm ²	Burs Pres Kgf/cm ²
12.50	1/2	7	17.5	35	10	25	5
20.00	3/4	7	17.5	35	10	25	5
25.00	1.0	7	17.5	35	10	25	5
31.50	1.1/4	7	17.5	35	10	25	5
38.00	1.1/2	7	17.5	35	10	25	5
45.00	1.3/4	7	17.5	35	10	25	5
50.00	2.0	7	17.5	35	10	25	5
63.00	2 1/2	7	17.5	35	10	25	5

Road and Rail Tanker Oil Suction and Discharge Rubber Hose



Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufacturer and Supplier of Road and Rail Tanker Oil Suction and Discharge Rubber Hose as per IS:10733 Specification:

Construction:

The tube of fuel dispensing hoses contains uniform seamless lining of top quality rubber that is completely resistant to petroleum products.

Reinforcement : Plies of woven textile which contains rubber on both the sides. It is supported by the helical wire included in fabric plies.

Electrical Bonding : Low resistant electrical bonding wire is incorporated between the reinforcement plies to provide electrical continuity along the whole length of the hose.

Cover: a great smooth synthetic compound which is highly resistant to extreme weather, abrasion, petroleum products, wear and tear.

End Connection : The hose is available with or without flanges and with built in nipples.

APPLICATION

The application is in applying the petroleum products from road rail tanker carrying these products. It is mainly used for the loading and unloading of the products such as petrol and diesel.

TECHNICAL SPECIFICATION

SIZE		Working Pressure	Bursting Pressure	Working Pressure	Bursting Pressure	Working Pressure	Bursting Pressure
MM	INCH	7 Kgf/cm ²	28 Kgf/cm ²	10 Kgf/cm ²	40 Kgf/cm ²	15 Kgf/cm ²	60 Kgf/cm ²
63.00	2.1/2	8.5	6.5	10.5	8.5	-	-
75.00	3	10.0	7.5	12.0	10.0	-	-

Oil Suction and Discharge Discharge Rubber Hose

Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufacturer and Supplier of Oil Suction and Discharge Rubber Hose as per IS:8189 Specification:

Construction:

The tube of fuel dispensing hoses contains uniform seamless lining of top quality rubber that is completely resistant to petroleum products.

Reinforcement : Plies of woven textile which contains rubber on both the sides. It is supported by the helical wire included in fabric plies.

Electrical Bonding : Low resistant electrical bonding wire is incorporated between the reinforcement plies to provide electrical continuity along the whole length of the hose.

Cover: a great smooth synthetic compound which is highly resistant to extreme weather, abrasion, petroleum products, wear and tear.

End Connection : The hose is available with or without flanges and with built in nipples.

APPLICATION



PIPE LINE DI PIPE GASKET

Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufacture and Supplier of DI Pipe Gasket (EPDM TYTON) as per IS:5382-2003 Specification:

Size:80mm To 2000mm

For Type 2

Hardness- 50 Shore A

Tensile Strength-11.0MPa

Elongation at Break-400%

For Type 5

Hardness- 80 Shore A

Tensile Strength-9.0MPa

Elongation at Break-125%



Cement Feeding Rubber Hose

Enterprises AN ISO:9001;2015 Certified Company is manufacture and Supplier of Cement Feeding Rubber Hose as per IS:5137:990 Specification:

Size: 3" ID to 16" ID

End Fitting: MS Flange as per ASA 150 # ANSI 16.5 Drilled and DIN Specification.

Working Pressure -10 to 15kg/cm²

Color: Black

Vaccum:500 to 700hg

Temperature- 150Deg C

Top: Plain and Corrugated.

Lining : Synthetic Rubber High Ablation Resistance.

Reinforcement: High Quality and Heat Resistance Fabric and Tyre Cord Reinforcement.

Helical Wire: 16 WWG to 8 SWG High Tensile Spring Helical Wire

Cover: Weather Resistance Synthetic Rubber

REGULAR SIZE:

SANDHYAFLEX-CFRH-80NB-3Inch ID

SANDHYAFLEX-CFRH-100NB-4Inch ID

SANDHYAFLEX-CFRH-125NB-5Inch ID

SANDHYAFLEX-CFRH-150NB-6Inch ID

SANDHYAFLEX-CFRH-200NB-8Inch ID

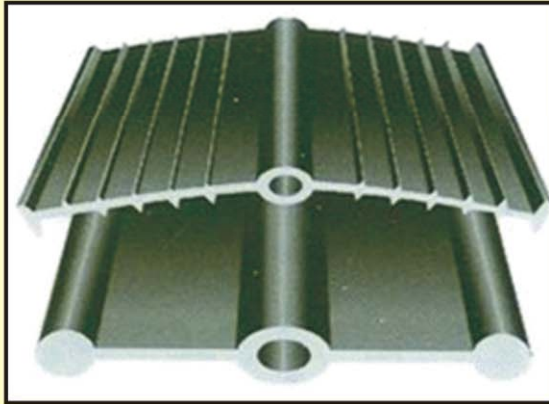
SANDHYAFLEX-CFRH-250NB-10Inch ID

SANDHYAFLEX-CFRH-300NB-12Inch ID

SANDHYAFLEX-CFRH-140NB-14Inch ID



RCC Construction Products



1. PVC WATER STOPPER

A. PVC Water Stopper with Centre Bulb

1.	SANDHYAFLEX –PVCWSCB-150-6” (150mm) x 5mm
2.	SANDHYAFLEX –PVCWSTCB150-6” (150mm) x 6mm
3.	SANDHYAFLEX-PVCWSCB150-6” (150mm) x 8mm
4.	SANDHYAFLEX-PVCWSCB230-9” (230mm) x 5mm
5.	SANDHYAFLEX-PVCWSCB230-9” (230mm) x 6mm
6.	SANDHYAFLEX-PVCWSCB230-9” (230mm) x 8mm
7.	SANDHYAFLEX-PVCWSCB230-9” (230mm) x 10mm
8.	SANDHYAFLEX-PVCWSCB300-12” (305mm) x 8mm
9.	SANDHYAFLEX-PVCWSCB300-12” (305mm) x 10mm
10.	SANDHYAFLEX-PVCWSCB300-12” (305mm) x 12mm



B. PVC Water Stopper Dumbell

S.No.	SIZE
1.	SANDHYAFLEX-DBTPVCWAT150-6” (150mm) x 6mm
2.	SANDHYAFLEX-DBTPVCWS-230-9” (230mm) x 6mm
3.	SANDHYAFLEX-DBTPVCWS-250-10” (250mm) x 8mm
4.	SANDHYAFLEX-DBTPVCWS-305-12” (305mm) x 8mm



C. PVC Water Stopper Kiker Type

S.No.	SIZE
1.	SANDHYAFLEX-KTPVCWS230-9” (230mm) x 8mm
2.	SANDHYAFLEX-KTPVCWS300-12” (305mm) x 8mm

2.MASTIC PAD

“JOLLY BOARD” Expansion Joint Filler Board

“BAGASS BOARD” Expansion Joint Filler Board

1.10mm x 2ft x 4ft

2.12mmx 2ft x4ft

3.16mmx 2ft x 4ft

4.18mm x 2ft x 4ft

5.20mm x 2ft x 4ft

6.22mm x 2ft x 4ft

7.25mmx 2ft x 4ft

8.50mmx 2ft x4ft

ShaliTex Expansion Joint Filler Board

1.12mmx 1.2Mtr x1.2Mtr

2.16mm x 1.2Mtr x1.2Mtr

3.18.0mmx 1.2Mtr x1.2Mtr

4.20.0mmx 1.2Mtx1.2Mtr

5.25.0mm x 1.2Mtr x 1.2Mtr

6.50.0mm x 1.2Mtr x 1.2Mtr

DURAbordHD100' SUPREME Expansion Joint Filler Board

1.12mmx 1.2Mtr x2.4Mtr

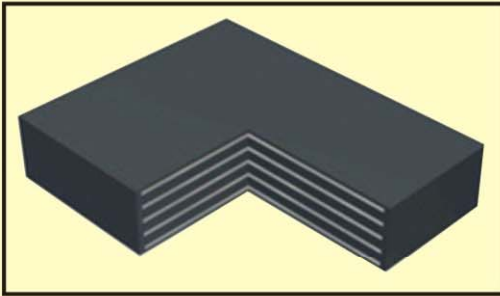
2.16mmx 1.2Mtr x2.4Mtr

3.20mm x 1.2Mtr x 2.4Mtr





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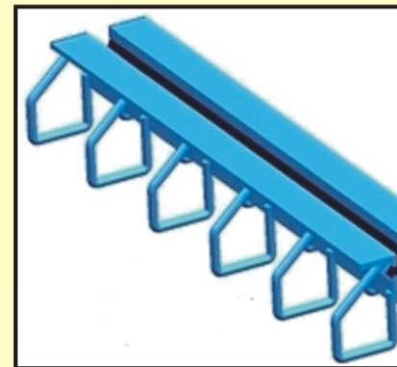


Elastomeric Bridge Bearing

Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufacture and Supplier of Elastomeric Bridge Bearing as per IRC 83 (Part II) 2015, MORTH and UIC 772 2R Specification:
Thickness:22mm to 144mm max
Width:100mm to 1000mm Max
Length:100mm to 1500mm Max
Hardness:55 to 65 IRHD
Tensile Strength:17.0MPa min
Elongation at Break:400% min
Adhesion Strength:7kn/M
Ash Content:5% max
Polymers : CR
Polymer Percentage:60%
Shear Modulus 0.8MPa to 1.2MPa
Shape Factor for Elastic Modulus:6 to 12

Strip Seal Expansion Joint

Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufacture and Supplier of Strip Seal Expansion Joint as per IRC 83 (Part II) 2015, MORTH and UIC 772 2R Specification: Gap 40mm and 70 and 80mm movement, 65mm and 75mm Edges Beam with 16mm Anchoring Rod. Neoprene Rubber Strip as per IRC 83 (Part II)2015 Specification)



- 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 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 elastomeric seal from the traffic.
- 8.Without carriageway surfacing, expansion joint shall not be exposed to traffic loading.



Compression Seal Expansion Joint

Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufactures and Supplier of Compression Seal Expansion Joint as per IRC 83 (Part II) 2015, MORTH and UIC 772 2R Specification: Gap 40mm and 70 and 80mm movement, 100mm Edges Beam with 16mm Anchoring Rod. Neoprene Rubber Strip as per IRC 83 (Part II) 2015 Specification)

RUBBER EXPANSION BELLOW

Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufacture and Supplier of Rubber Expansion Joint Bellow per customer Specification:

We offer ranges of standard as well as custom manufactured bellows to cater for many applications from heavy industry to food quality. The selection of bellows design, open:close ratios, stroke length, convolution width, split or endless configuration, and materials will depend on your specific application. Where molded bellows are not suitable, a range of hand-built rubber bellows are available including tapered and smooth bore.

Rubber Expansion Joints protect equipments and piping from damage caused by vibration and thermal movements. While not the primary purpose, they are also frequently used to accommodate equipment misalignments. Rubber expansion joints provide superior flexibility, movement absorption, and cycle life, while resisting chemical attack and abrasion.

They are useful over a wide range of temperatures & pressures, making them the preferred expansion joint for most liquid and solid applications, though gases & solids are also frequently conveyed by rubber expansion joints.

Function of rubber expansion joints :

- ◆ Damp oscillation, noise and vibration
- ◆ Compensate motion
- ◆ Compensate expansion caused by differences in temperature
- ◆ Reduce tension
- ◆ Compensate ground and foundation settling
- ◆ Compensate imprecise assembly
- ◆ Serve as assembly and disassembly aids
- ◆ Provide an elastic wall seal for penetration assemblies
- ◆ Compensate pipeline movements

Three features set Industrial Moulders Expansion Joint technology apart :



Screen Vibrating Rubber Beading

Sandhya Enterprises AN ISO:9001;2015 Certified Company is manufacture and Supplier of Screen Vibrating Rubber Beading per customer Specification:

1. Vibrating Screen Rubber Beading for Wire Mesh Regular size: Gap-10mm Dia-35mm
2. Vibrating Screen Rubber Beading for Wire Mesh Regular size: Gap-8mm Dia-31mm,
3. Vibrating Screen Rubber Beading for Wire Mesh Regular size: Gap-7mm Dia-29mm,
4. Vibrating Screen Rubber Beading for Wire Mesh Regular size: Gap-15mm Dia-29mm

Rubber Cord

Sandhya Enterprises AN ISO: 9001;2015 Certified Company is manufacture and Supplier of Rubber Cord as per Customer Requirement.

Size:2mm Dia to 100mm Dia

Hardness:25 to 80 Shore A

NR Rubber Cord

NBR Rubber Cord

Neoprene Rubber Cord

SBR Rubber Cord

EPMD Rubber Cord

Sponge Rubber Cord



RUBBER STRIP

Sandhya Enterprises AN ISO: 9001;2015 Certified Company is manufacture and Supplier of Rubber Strip as per Customer Requirement.

Hardness:25 to 80 Shore A

NR Rubber Strip

NBR Rubber Strip

Neoprene Rubber Strip



SANDHYA ENTERPRISES

5-24-1223/5/1, Ambedkar Nagar,
Gajularamaram, Hyderabad -500055.
AN ISO:9001:2015 Certified Company
Contact No:9652998932,9550921831,
GSTIN:36GNLPS1299P1ZS
PAN NO : GNLPS1299P
IEC : 916915042
AD Code : 05114228381149
E-mail : sandhyaprises@gmail.com
Visit Us : www.sandhyaflex.com

