HICOR

RUBBER FOR THE CONSTRUCTION INDUSTRY

HICOR MANUFACTURING CORPORATION

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C O N T E N T S

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HICOR BEARING PADS

HICOR RUBBER
FOR THE CONSTRUCTION INDUSTRY

ELASTOMERIC BEARING PADS

HICOR Elastomeric Bearing Pads are manufactured by compression moulding using our specially-formulated HIGEN polychloroprene (Neoprene) rubber compound. HICOR bearing pads are used in pre-stressed concrete beam or steel beam in bridges, elevated roads, and buildings. It permits a smooth and uniform transfer of load from the beam to support structure, allow beam rotation or deflection under load or traffic movement. HICOR bearing pads is designed to have very low compression set, good ageing resistant, high tensile strength and elongation in order to have a long lasting service life. Because a defective bearing pad is difficult to replace, and it can cause serious damage to the adjacent concrete structures.

PHYSICAL PROPERTY	ASTM STANDARD	TEST VALUE	UNIT
HARDNESS, DUROMETER	D2240	60+/-5	SHORE A
TENSILE STRENGTH, MIN.	D412	2500	PSI (Mpa)
ELONGATION AT BREAK, MIN.	D412	350	%
AGEING RESISTANCE (70HRS@212°F)			
MAX. CHANGE IN HARDNESS		+15	SHORE A
MAX. CHANGE IN TENSILE STRENGTH		-15	%
MAX. CHANGE IN ELONGATION		-40	%
COMPRESSION SET, MAX. (22HRS@212°F)	D395	35	%

2461 Sunrise St., Tambo, Parañaque City ☎ Tel. Nos. 853.6538; 853.6677; 851.5702
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HICOR SPONGE RUBBER JOINT FILLER

SPONGE RUBBER JOINT FILLER

INTRODUCTION

HICOR SPONGE RUBBER FILLER are ideal for joint filler on concrete gaps, gasketing and padding as well as in isolation application or between materials having dissimilar coefficient of expansion. Composed of connected cell that allows gas or air to pass through when compressed. This sponge offer good compression set characteristics, and typically rebounds faster than other kind of rubber product it is available in soft and medium density.

USES AND APPLICATION

This type of rubber is commonly used for concrete joint or concrete construction gaps in between concrete or in steel and concrete spacing and around supporting pillars, hydrants, drains etc.
It is also ideal for a rubber padding and gasket ting specifically on sewage treatment plant that under goes rapid change in temperature.

APPEARANCE/CHARACTERISTIC

It comes in different colors commonly are concrete gray and solid black, the texture is sponge like semi rough, flexible and naturally soft ranges to 30 to 50 duro shore A hardness

This type of rubber is typically lightweight.
Its sizes may vary as per client's specification depends on the items usage.

Protects against water infiltration when properly sealed.
High resiliency with excellent recovery.
Offer isolation capabilities.
Easy to handle and install.

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SPECIFICATIONS

DESCRIPTION:

SPONGE RUBBER EXPANSION JOINT FILLER shall consist of preformed strips of a durable, elastic sponge rubber compound, using synthetic rubber or natural rubber as base and containing no reclaimed rubber or factice. Unless otherwise specified, sponge rubber shall have a cement gray color to blend with concrete appearance.

SPECIFICATION:

ASTM D-1752 TYPE I
AASTHO M-153, TYPE I

TEST	METHOD	SPECIFICATIONS
Compression, (50% deflection)	AASHTO M 153 ASTM D 1752	≤ 0.34 nor greater than 10.35 Mpa (50-1500 Psi)
Recovery, %	AASHTO M 153 ASTM D 1752	90% of its thickness before test after 10 mins.
Density, lbs/ft^3	AASHTO M 153 ASTM D 1752	480kg/m^3 (30lb/ft^3)
Extrusion, in	AASHTO M 153 ASTM D 1752	Shall not exceed 6.4mm

SAMPLING as per specification AASTHO M 153, ASTM D 1752

Size and number of samples = 5 - 114mm x 114mm

Note: one (1) representative sample, approximately 2ft 2 shall be selected by its shipment of 1,000ft 2 or fraction thereof.

TESTING REQUIREMENTS:

Recovery – The test specimen shall be compressed to 50% of its thickness before test.

Compression - The load required to compressed the test specimen to 50% shall not be less than 50 nor greater than 1,500 Psi (0.34 to 10.35 Mpa)

Extrusion – The test specimen shall be compressed to 50% of its thickness before test with 3 of the edges restrained. The amount of extrusion of the free edge shall not exceed 0.25 in. (6.4mm)

Note: Unless otherwise specified, the sponge rubber shall have a cement gray color to blend with the cement color.

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INSTALLED HICOR BEARING PADS

MNTC PROJECT – HARBOR LINK SEGMENT 10.1 SKY WAY

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INSTALLED SPONGE RUBBER AND ELASTOMERIC BEARING PADS

NLEX SKYWAY PROJECT

CONTRACTOR – LEIGHTON CONTRACTORS ASIA LMTD.

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HICOR SEISMIC RUBBER BEARING

SEISMIC RUBBER BEARING

HICOR Seismic Rubber Bearing isolates the structure from the movement of the ground during an earthquake and thus limit the seismic energy acting on the structure. They are similar to regular reinforced elastomeric bearing pads with steel connection plates.

This type of rubber can be used for new construction of structures. Or to enhance existing structures strength and resistance to seismic forces, such as bridges and buildings for retrofitting. Under normal condition they function as a regular deformation bearing, and thus particularly suitable for structures with limited space availability. Neoprene rubber and natural rubber is commonly used for seismic rubber bearings.

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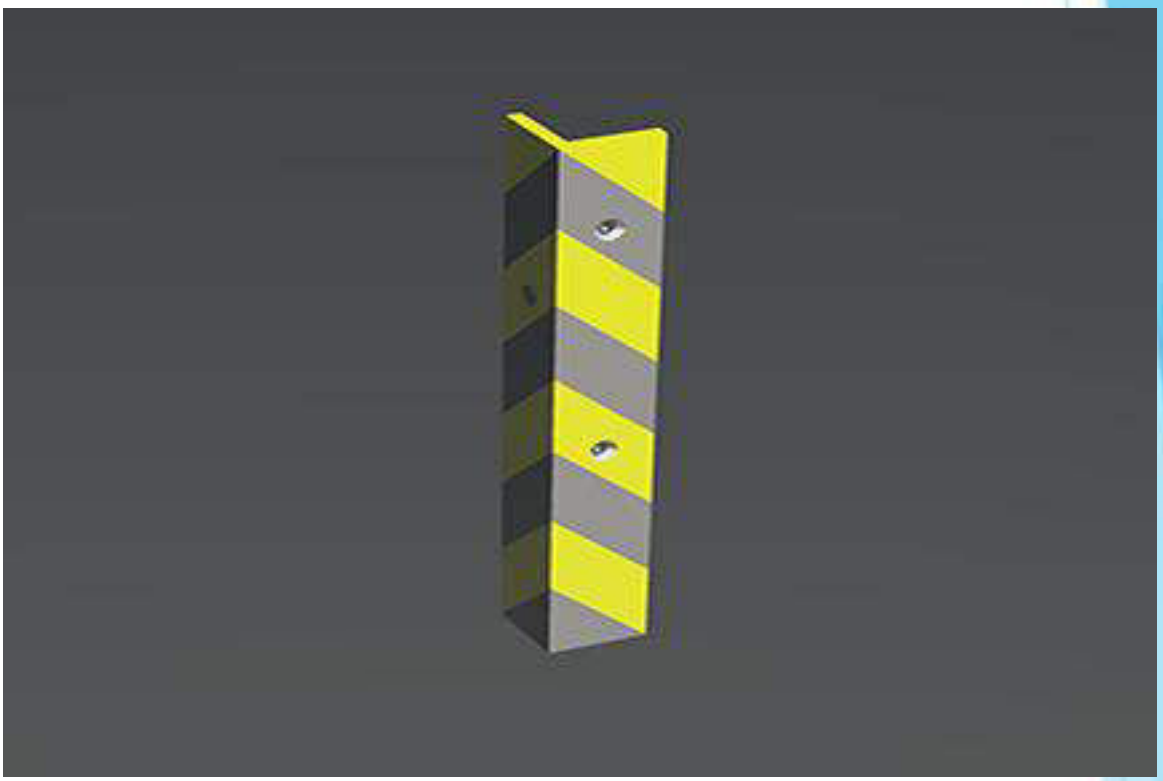
HICOR RUBBER COLUMN GUARD

RUBBER COLUMN GUARD



HICOR Rubber Column Guard is ideal for protecting column structures and walls. Protects structures From vehicle damage especially on corners. Absorbing minimum amount of impact protects column from chipping and permanent damage.

USES:

To protect column from vehicle impact and also the vehicle, commonly used in parking areas.

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SPECIFICATIONS

TECHNICAL DATA:

Sizes: comes in varies
Color: Commonly Black or Painted Over with Stripes (Yellow, White)
Hardness: 50 – 90 durometer shore a
Material: High Grade Natural Rubber or Neoprene

FIXING HARDWARE:

Types of hardware's commonly used to fix the column guards are, anchor bolts, expansion bolt, dyna bolt it can also be fixed by an adhesive

Expansion bolt

Dyna bolt

Note:

Sizes of Bolts varies

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SPECIFICATIONS

TYPES OF COLUMN GUARD:

ANGULAR TYPE

CIRCULAR TYPE

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HICOR WALL GUARD AND CORNER GUARD

WALL GUARD AND CORNER GUARD

HICOR WALL GUARD AND CORNER GUARD is commonly used to prevent damage to both vehicles and buildings. Garage wall protectors are perfect solution for parking residences.
Wall guards protects interior walls in factories, power plants, warehouses and loading docks serves as a bumper designed to absorb, deflect and minimize wear abrasion and impact from moving objects such as vehicles and equipment's.

TECHNICAL DATA

MATERIAL:	**NATURAL RUBBER**
COLORS:	**BLACK, CONCRETE GRAY OR PAINTED OVER**
HARDNESS:	**50-60 DURO**
THICKNESS:	**VARIES**
LENGTH:	**VARIES**

FIXING METHOD

Wall guards and corner guard can be fixed by:

BOLTS AND SCREWS
ADHESIVE TYPE

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HICOR RUBBER BUMPER

RUBBER BUMPER FOR LOADING DOCK

HICOR Molded Rubber Bumper is great for low traffic dock applications it is commonly used for ware houses, factories and structures that needs protection from trucks backing up for deliveries, its main use is to protect both the vehicle and the concrete structure from damage.

TYPES OF RUBBER DOCK BUMPERS

LAMINATED BUMPER

MOLDED BUMPER

EXTRUDED DOCK BUMPER

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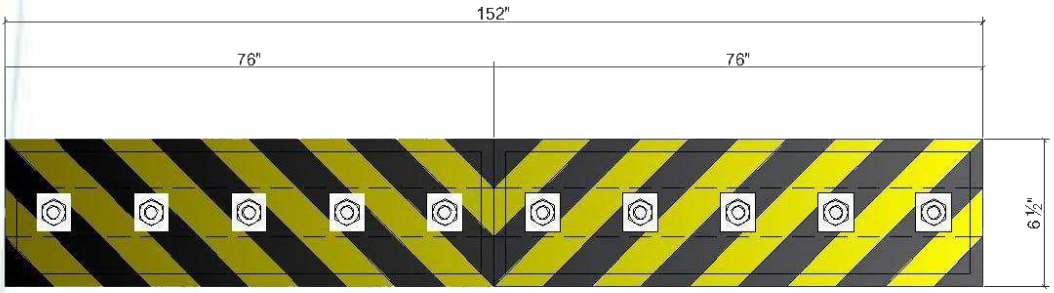
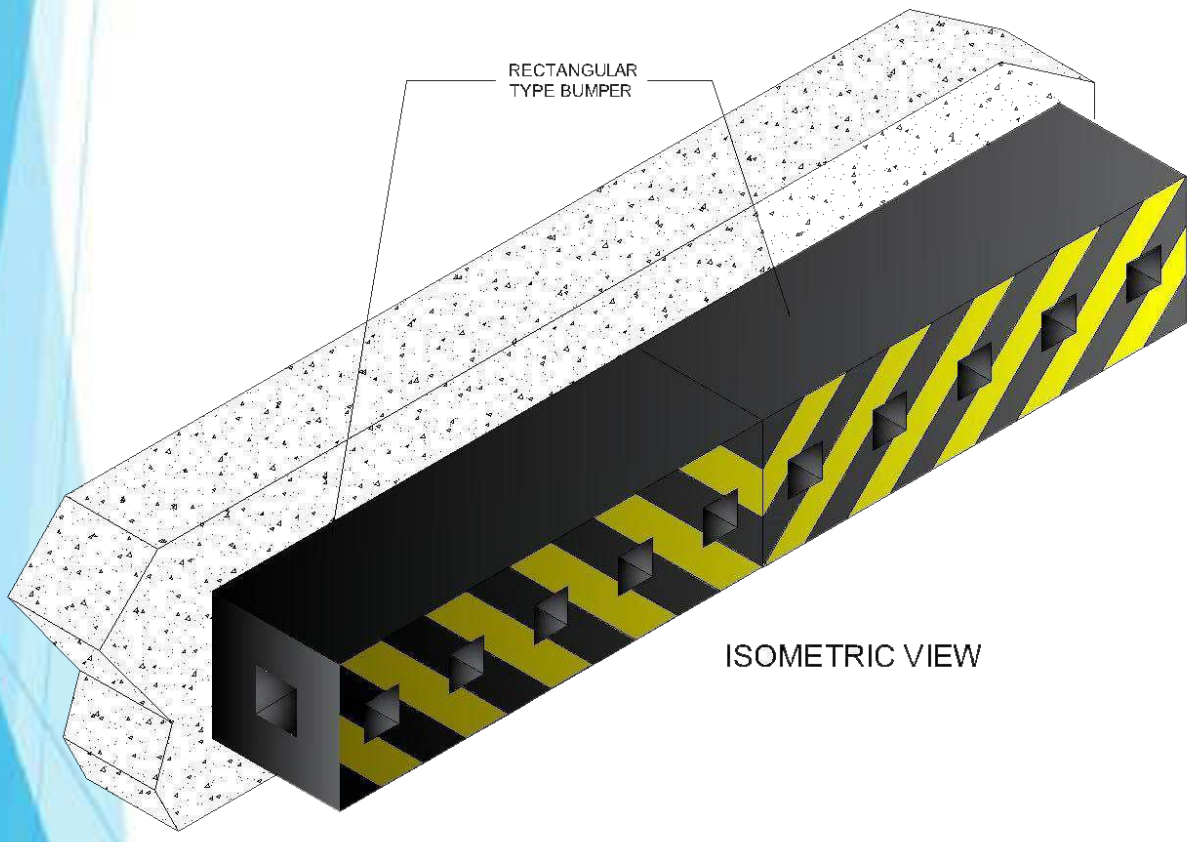
RECTANGULAR TYPE MOLDED RUBBER BUMPER



FRONT VIEW



ISOMETRIC VIEW

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HICOR LOADING DOCK BUMPER

HICOR LOADING DOCK BUMPER

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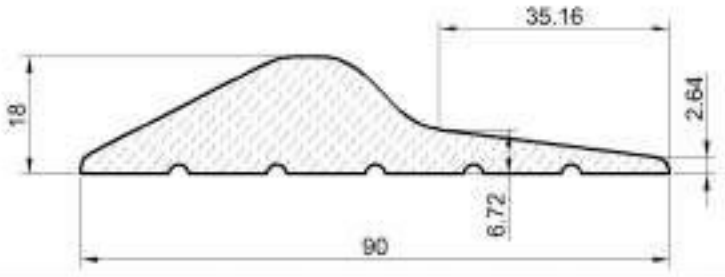
HICOR WEATHER FLOOR SEAL

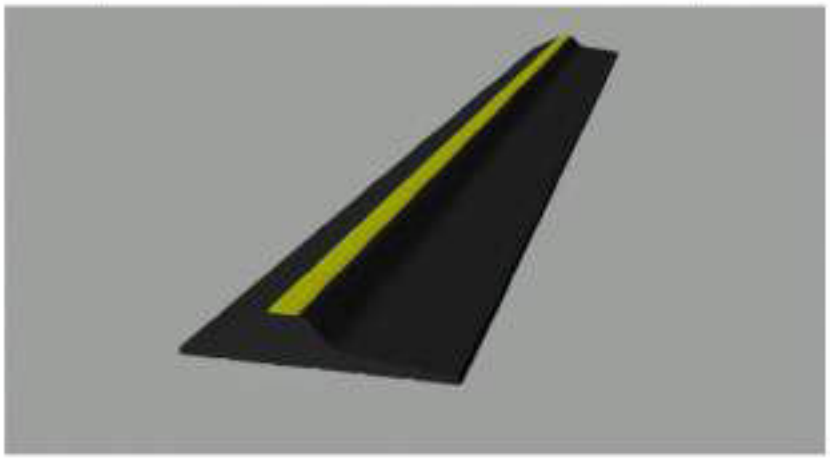
HICOR WEATHER FLOOR SEAL

WEATHER FLOOR SEAL
HWFS-01

- MOLDED FROM SOLID RUBBER COMPOUND.
- CAN HELP STOP ANY WATER INGRESS PROBLEMS.
- COMES WITH BLACK AND YELLOW REFLECTORIZED PAINT
- HARDNESS - 60-70 SHOREA
- FIXED WITH STRONG ADHESIVE
- AVAILABLE WITH EPDM & NATURAL RUBBER MATERIAL.

PART No.	DESCRIPTION
HWFS-01	1000mm (L) x 18mm(H) x 90mm(W)





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HICOR WHEEL CHOCK

HICOR WHEEL CHOCK

WHEEL CHOCK HWC-1

- MOLDED FROM A TOUGH RUBBER COMPOUND.
- WELL SUITED FOR TRUCK AND OTHER HEAVY EQUIPMENT.
- ECONOMICAL AND LONG LASTING.
- EITHER SIDE CAN BE POSITIONED AGAINST TIRE.
- AVAILABLE WITH ROPE CONNECTION POINTS MOULDED INTO THE CHOCK.

PART No.	DESCRIPTION
HWC-1	200mm (L) x 145mm(H)x 250mm(W) (6.5 kgs.)

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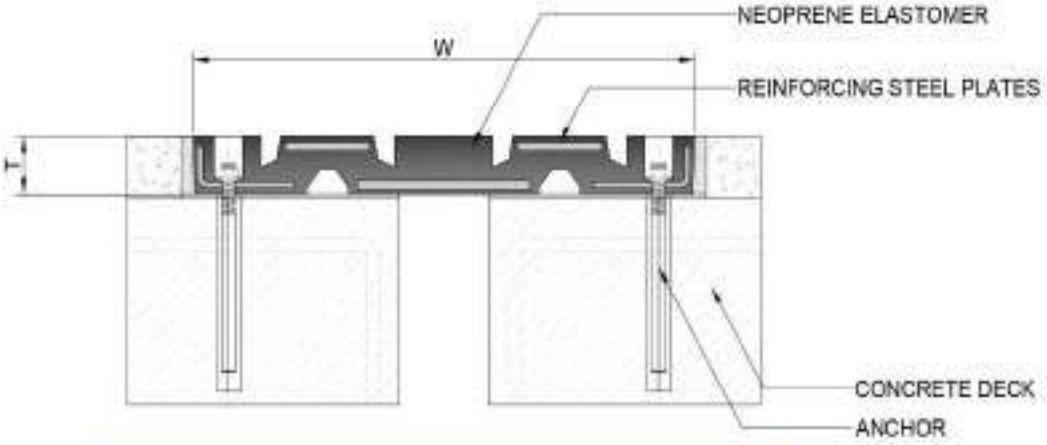
HICOR EXPANSION JOINTS

HICOR EXPANSION JOINTS

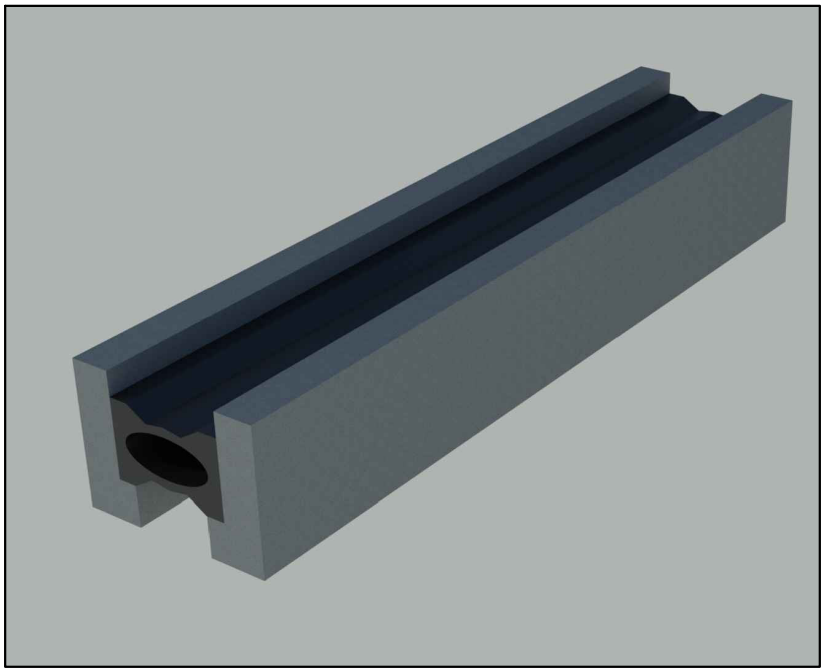
H-REJ

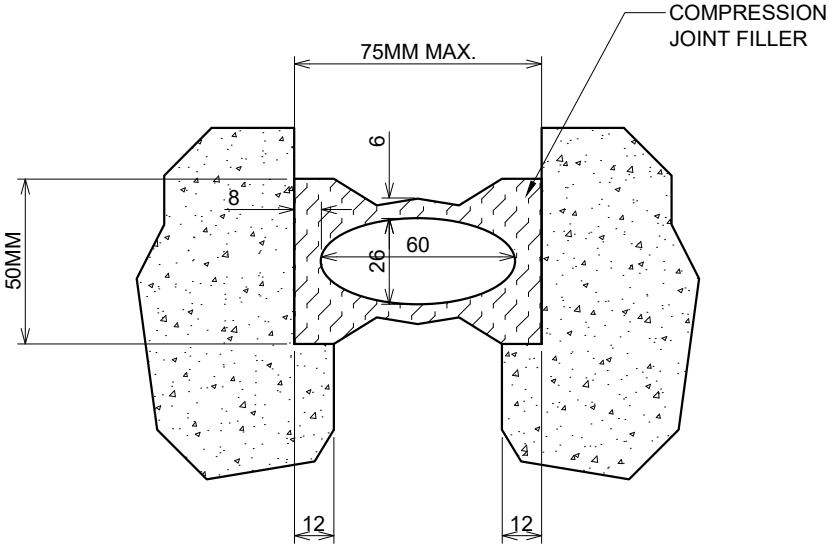
H-REJ-HICOR Expansion Joints are high quality robust elastomer moulded modules with reinforced steel bridge plates. These are supplied in modules of specified lengths designed for bolting to the structural deck on either side of the expansion joint. A wide range of module sizes are available to absorb movements up to 330mm

H-REJ-HICOR Expansion Joints complies with the latest DPWH Standard Specification for ITEM 413 EXPANSION JOINT SYSTEMS [Item 413 (2) e - Compression Seal and Item 413 (2) f - Rubber Expansion Joints]



PRODUCT CODE	MOVEMENT CAPACITY (MM)	L (MM)	T (MM)	W (MM)	ANCHOR Ø
H-REJ-01	38 (+/- 19)	1750	35	240	M12
H-REJ-02	50 (+/- 25)	1830	40	274	M14
H-REJ-03	65 (+/- 32.5)	1830	46	356	M14
H-REJ-04	80 (+/- 40)	1830	54	432	M16
H-REJ-05	102 (+/- 51)	1830	54	590	M16
H-REJ-06	165 (+/- 82.5)	1830	75	724	M20
H-REJ-07	230 (+/- 115)	1830	93	890	M24
H-REJ-08	330 (+/- 165)	1220	127	1207	M27





SECTION

MATERIAL: NEOPRENE/
NATURAL RUBBER

COLOR: BLACK

HARDNESS: 60 SHORE A

BRAND: HIFLEX

MAX. COMPRESSION WIDTH: 25MM

MAX. MOVEMENT: 50MM

CUT LENGTH: 2000MM/ROLL

ELASTOMERIC COMPRESSION JOINTS SEAL

HICOR MANUFACTURING CORPORATION
2461 Sunrise St., Mia Road, Tambo,
Parañaque, Metro Manila, Philippines.

PROJECT	
ELASTOMERIC COMPRESSION JOINTS SEAL	
PREPARED BY:	SHEET NO. 1 - 1
DONDON ROCES	H-ECJS-001