

BRIDGE EXPANSION JOINTS

Polymet Industries LLC

P.O Box – 85685

Ras Al Khaimah,

United Arab Emirates

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www.pretread.com

BRIDGE EXPANION JOINTS- PRJ *series*



Features

- Elasticity, to move without cracking or transmitting unacceptable stresses to bridge deck.
- Skid resistance is achieved by the ribbed pattern on top of the neoprene/natural rubber cover.
- Maintenance free installation with drainage channel & long lasting components.
- Low profile with minimum open drainage channel to prevent debris built up and promotes smooth ride.

TECHNICAL SUPPORT

Polymet technical engineers are available to support in design, procurement & site installation of Polymet PRJ expansion joints.

MADE IN UAE

Polymet PRJ Expansions joints are made in United Arab Emirates and can be shipped to any destination within GCC in short period of time.

TURNKEY SOLUTIONS

Polymet offers customized solutions for projects that require custom sizes.

For more information on any of our products or services please visit us on the Web at:
www.pretread.com

Moulded rubber expansion joint system designed to accommodate structure movements from 20 up to 200mm. Polymet PRJ systems consists of steel reinforced moulded rubber joints.

Physical properties of the Neoprene/ Natural Rubber compound will meet the requirement as mentioned on the table.

Compound Physical Properties	ASTM Test Standard	Min Requirements
Durometer Shore A Hardness	D 2240	65 ± 5
Tensile Strength	D 412	160 Kg/cm ²
Elongation at Break	D 412	350%
Compression Set 22hrs @ 70° C	D 395	< 20%
Ozone Resistance 70 hrs @ 40°C – 20% strain – 100pphm	D 1149	No cracks

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EXPANSION JOINTS

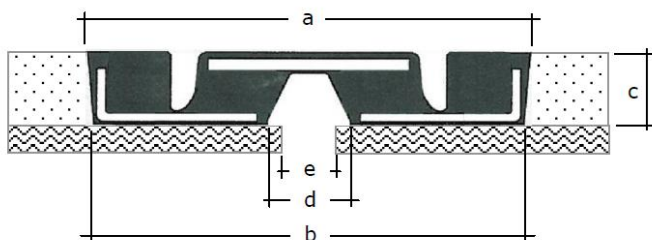
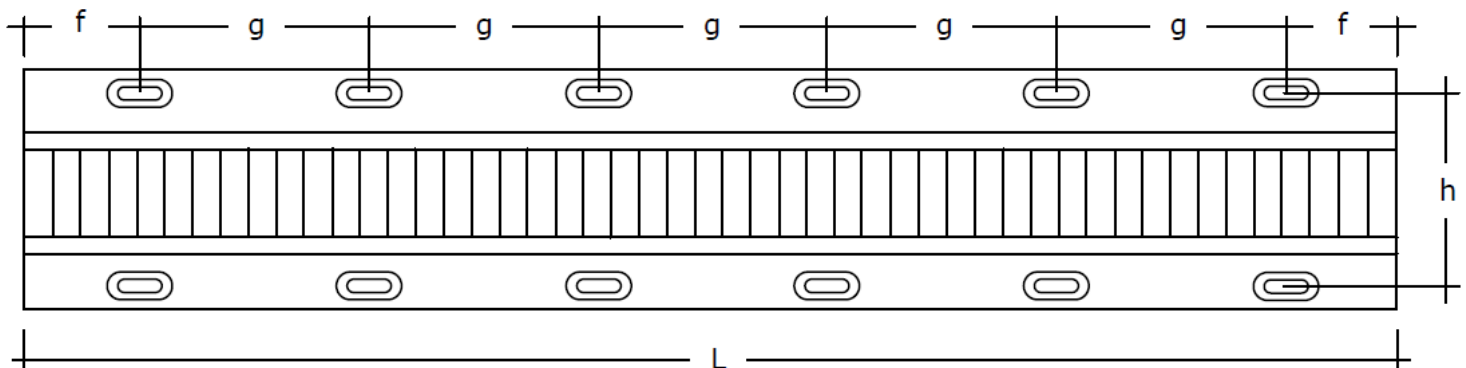
PRJ 42 / PRJ 52 / PRJ 70 / PRJ 80

Model	Range of Movement		Dimensions in mm											Weight (Kg)
	Open	Close	a	b	c	d	e	f	g	h	m	n	L	
PRJ 42	+21	-21	240	235	37	35	35	166	333	186	380	70	2000	33
PRJ 52	+26	-26	266	262	40	50	48	152	305	208	426	80	1829	37
PRJ 70	+35	-35	352	345	45	73	52	152	305	280	512	80	1829	61
PRJ 80	+40	-40	427	422	55	86	74	152	305	339	567	70	1829	82

Movements supported on No skewed bridges.

Sizes may change – please consult with POLYMET before placing order.

Above given size are of standard production, Sizes for higher expansion gap can be manufactured and supplied.



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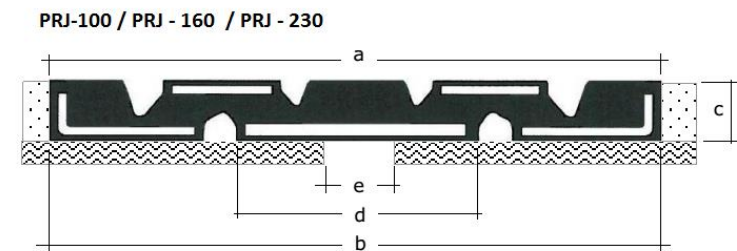
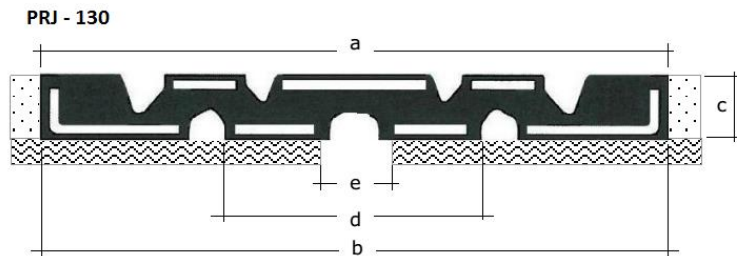
PRJ 100 / PRJ 130 / PRJ 160 / PRJ 230

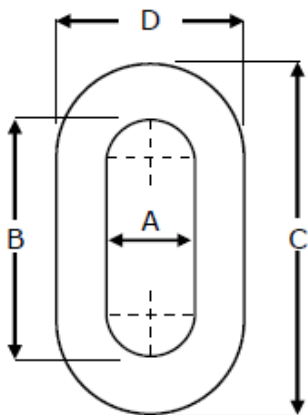
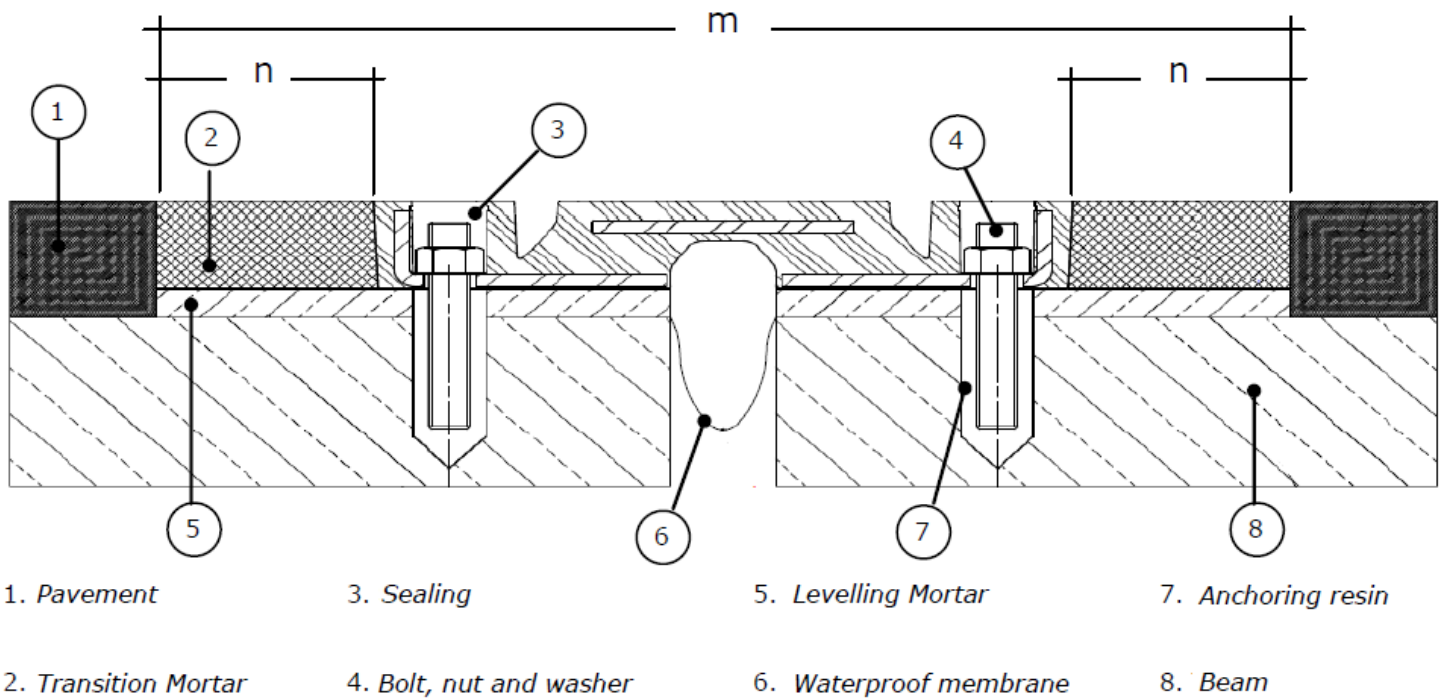
Model	Range of Movement		Dimensions in mm									Weight (Kg)
	Open	Close	a	b	c	d	e	f	g	h	L	
PRJ 100	+50	-50	580	575	55	240	94	152	305	495	1829	135
PRJ 130	+65	-65	585	583	55	280	102	152	305	510	1829	145
PRJ 160	+80	-80	711	704	78	314	110	152	305	607	1829	238
PRJ 230	+115	-115	892	880	98	375	145	152	305	787	1829	349

Movements supported on No skewed bridges.

Sizes may change – please consult with POLYMET before placing order.

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Type of Joint	PRJ – 42	PRJ – 52	PRJ – 70	PRJ – 80
A	18	19	19	22
B	54	54	54	61
C	71	74	74	97
D	31	39	39	57

Bridge Expansion Joint – PRJ series Anchor Bolt hole sizes

ASSEMBLY ACCESORIES AND FIXTURES- PRJ *series*

Exp. Joint	Ø Drill Hole Size	Anchor Bolt & Nut	Minimum Drill Depth	Washer
	mm		in concrete	b x a x t, d
PRJ - 42	16	M-14	80	35x45x3.5, Ø17
PRJ - 52	16	M-14	80	35x45x3.5, Ø17
PRJ - 70	18	M-16	100	40x50x4.0 Ø18
PRJ - 80	22	M-18	100	50x60x4.0 Ø23

