

CPSX[™] | EXPANSION
JOINT SYSTEM

aej | AUSTRALIAN
EXPANSION
JOINTS

CPSX™ | EXPANSION JOINT SYSTEM

Easy to install and 100% watertight, CPSX™ is a specialty UV stable flexible closed cell foam water seal expansion joint complete with a rubber strand seal topping installed flush with the carpark surface.

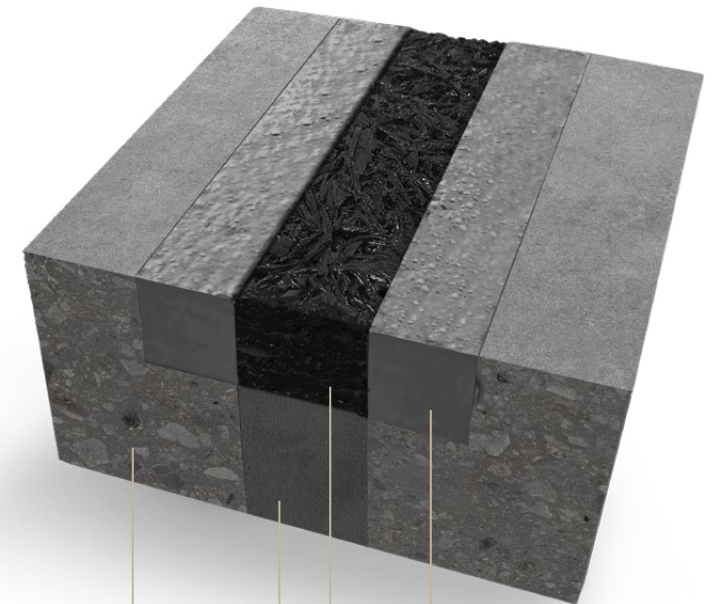
Suitable for installation into new construction or rehabilitation of existing expansion joints.

COMPATIBLE BASE

Carparks
Pedestrian walkways
Service and truck loading areas
Warehouses
Roadways

KEY BENEFITS

100% Watertight
Pedestrian, scooter, bicycle, motor vehicle & truck friendly
Able to withstand heavy loads from trucks and motor vehicles
Easy and fast to install
NO pedestrian trip hazards
NO damage to motor vehicles
NO noise hazards
NO fixings or metal componentry to come loose avoiding pedestrian trip hazards



Concrete

Waterseal

Rubber strand topping
(10mm deep)

PNSX™ - only installed where the expansion joint gap needs reinforcing or repair.

Please see PNSX™ Polymer Nosing TDS for further information.

PROUDLY AUSTRALIAN DESIGNED & MANUFACTURED

CPSX™ | ENVIRONMENTAL SUSTAINABILITY AND SAFETY

CPSX™ is made up of two layers - The bottom layer, a specialty flexible closed cell foam water seal that is bonded to the expansion joint gap with an Australian made epoxy adhesive designed to keep water and debris from exiting the expansion joint gap. Grooves along the sides of the seal filled with epoxy adhesive allow further bond strength to the application's surface.

The upper layer consists of a matrix of rubber strands made from Australian recycled truck tyres, bound together with an Australian made elastomeric binder that allows the rubber to expand and contract providing multi-directional movement.

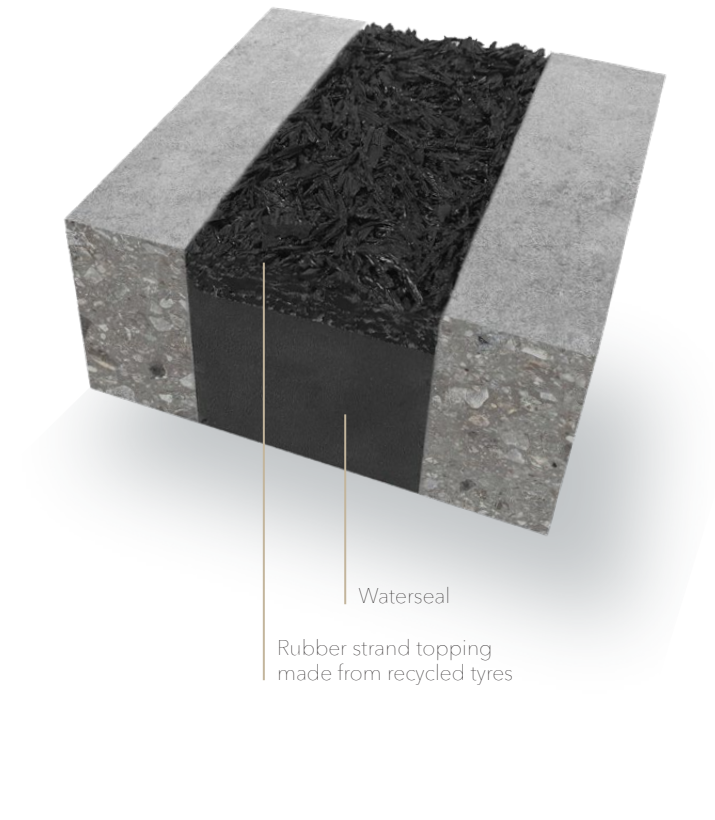
A SUSTAINABLE PRODUCT CONTRIBUTING TO AUSTRALIA'S CIRCULAR ECONOMY

Each year in Australia, the equivalent of 48 million tyres reach the end of their life, only ~16% of these are domestically recycled.

Australian Expansion Joints are dedicated to increasing the percentage rate of tyres recycled in Australia. Our choice for a sustainable future.

A SAFER ENVIRONMENT FOR EVERYONE

The rubber strand layer not only protects the water seal from being punctured by sharp objects, but also stiffens the surface of the seal increasing load capacity and keeping debris out of the expansion joint gap and out of the water seal. Allowing pedestrians, scooters, wheelchairs and bicycles to traverse safely over the expansion joint gap, avoiding heeled shoes from 'sinking' into the seal.



Certifier: Dale Sheppard (ACAA MN: 175)
Certification Number: EXJ-23-0556
Certification Date: 29.03.23
LOA REF: JN-2314-PC-V1-29.03.23
Products: CPSX™ Expansion Joint and PNSX™ Polymer Nosing

CPSX™ | SUPERIOR FEATURES

SUPERIOR FEATURES OF CPSX™

- Able to be installed horizontally and vertically in footpath upturns.
- Easy to install and if damaged, only the damaged section of product needs to be replaced, unlike other expansion joint systems which require total removal and replacement.
- Contains no anchors, cover plates or mechanical moving parts avoiding pedestrian trip hazards.
- For joins, CPSX™ is welded together in any size to suit its required application. This can be performed onsite during installation or can be supplied pre heat welded in lengths ranging from 2m to 50m. The heat welded joins are elastomeric allowing the entire water seal movement. Given the joins are heat welded and not glued this allows the water seal to remain as a complete elastomeric system.
- 100% watertight.
- Excellent movement range.
- Resistant to UV degradation.
- Excellent bond strength to concrete and steel.
- Good resistance to abrasion, alcohol, petrol, xylol, salt water, vegetable oils, minerals, alkalis and dilute acids.

KEY FEATURE

CPSX™ is installed flush with the road's surface preventing road debris from lodging into the product. The unique rubber strand topping allows CPSX to expand, contract and eject road debris off the surface of the seal as traffic traverses the expansion joint.

AVAILABILITY

CPSX™ is available from Australian Expansion Joints on the Gold Coast and can be delivered anywhere in Australia, New Zealand, Asia and the Pacific.



CPSX[™] | EXPANSION JOINT SYSTEM

CPSX[™] is installed flush in the expansion joint gap, allowing pedestrians, trolleys and motor vehicles to easily traverse.

The stiff rubber strand upper layer of CPXS[™] can withstand loads from heeled shoes, trolleys, retail equipment, trucks and motor vehicles.*



* Puncture strength (MPa) tested pursuant to Australian Standards by laboratory certified by the National Association of Testing Authorities.



Typical movement
range of an expansion
joint intersection

CPSX[™] | EXPANSION JOINT SYSTEM

Unlike compression seal type systems that are glued together, CPSX[™] conveniently allows onsite welding of joints, intersections and upturns in any size to suit its required application ensuring a full water tight elastomeric movement range



CPSX™ allows trolleys and pedestrians to easily traverse the joint unlike this compression seal that shows a trolley wheel 'stuck' in the seal.



The stiff rubber strand upper layer of CPSX™ can withstand loads from heeled shoes, trolleys, scooters, bicycles and motor vehicles.



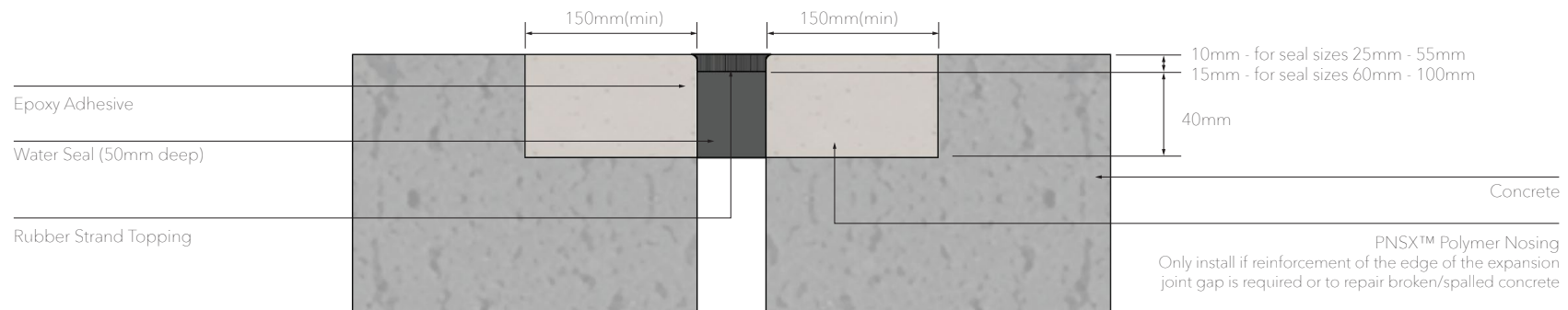
MOVEMENT RANGE SPECIFICATIONS

GAP SIZE	SEAL SIZE	MOVEMENT +/-	MIN GAP SIZE	MAX GAP SIZE	OVERALL MOVEMENT
25	32.5	7.5	17.5	32.5	15
30	39	10	20	40	20
35	45.5	12	23	47	24
40	52	14	26	54	28
45	58.5	16	29	61	32
50	65	20	30	70	40
55	71.5	22	33	77	44
60	78	23	37	83	46
65	84.5	24	41.5	89.5	48
70	91	26	44	96	52
75	97.5	27.5	47.5	102.5	55
80	104	29	51	109	58
85	110.5	30.5	54.5	115.5	61
90	117	32	58	122	64
95	123.5	33.5	61.5	128.5	67
100	130	35	65	135	70

*All dimensions are in millimeters

ALL SEAL SIZES MAINTAIN A PRODUCT DEPTH OF 50MM

CPSX™ CROSS-SECTION PROFILE



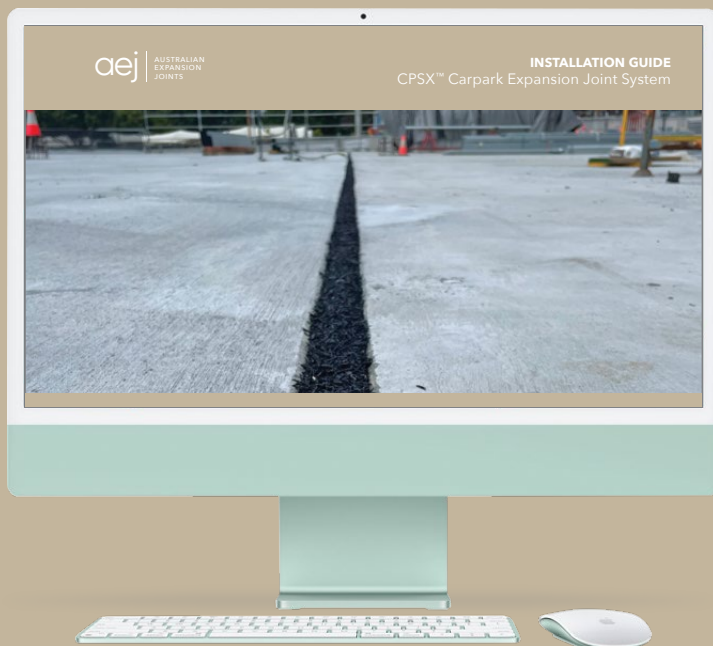
CPSX[™] | EXPANSION JOINT SYSTEM

INSTALLATION GUIDE

For comprehensive, step-by-step instructions on how to correctly install Australian Expansion Joints CPSX[™] Carpark Expansion Joint, please refer to our detailed instructional video on our website at www.ausej.com.au



**CLICK HERE TO PREVIEW THE
STEP BY STEP INSTALLATION GUIDE**





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QBCC 15136081 | BAS 867611

Australian Expansion Joints provides technical documentation and product specifications to support proper installation. However, the company accepts no liability for:

- Installations not performed in accordance with their installation guides or relevant standards
- Failures resulting from negligence, misuse, or unapproved modifications
- Non-compliance with WHS requirements or other safety protocols
- Improper installation or deviation from the recommended procedures may void product warranties and compromise structural integrity.

For additional technical support or clarification, please contact our team or refer to the product documentation at www.ausej.com.au.

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