



Connolly Dowel Cradles

for slab-on-ground applications



Leviat

We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

Leviat is a world leader in connecting, fixing, lifting and anchoring technology.

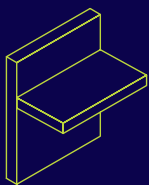
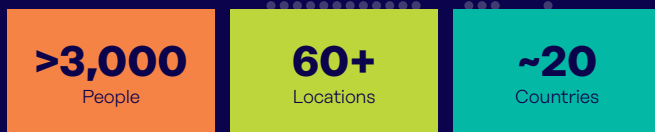
From the build of new schools, hospitals, homes and infrastructure, to the repair and maintenance of heritage structures, our engineering skills are making a difference around the world.

We provide technical design assistance at every stage of a project, from initial planning to installation and beyond.

Our technical support services range from simple product selection through to the development of a fully customised project-specific design solution.

Every promise we make locally, has the commitment and dedication of our global team behind it. We employ almost 3,000 people at 60 locations across North America, Europe and Asia-Pacific, providing an agile and responsive service worldwide.



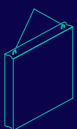


Structural Connections

Systems to form robust, efficient connections, and continuity of concrete reinforcement as necessary, between walls, slabs, columns, beams and balconies, providing structural integrity as well as enhanced thermal and acoustic performance.

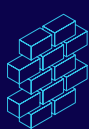
- Insulated balcony connectors
- Reinforcing bar couplers
- Concrete Connections
- Reinforcement continuity systems
- Punching shear reinforcement
- Shear load connectors
- Floor Joint Systems
- Precast / Reinforced Columns
- Infrastructure Products
- Precast Connections
- Acoustic dowels and bearings
- Prestress

Other areas of expertise:



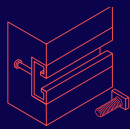
Lifting & Bracing

Systems for the safe and efficient transportation, lifting and temporary bracing of cast concrete elements and tilt-up panels before permanent structural connections are made.



Façade Support & Restraint

Systems for the safe and thermally-efficient fixing of the external building envelope, including brick and natural stone, insulated sandwich panels, curtain walling and suspended concrete façades, and also the repair and strengthening of existing masonry installations.



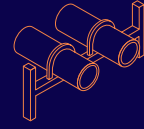
Anchoring & Fixing

Systems for fixing secondary fixtures to concrete, including anchor channels, bolts and inserts; also tension rod systems for roofs and canopies.



Formwork & Site Accessories

Non-structural accessories that complement our engineered solutions and help keep your construction environment operating safely and efficiently, including moulds for casting standard and special concrete elements and construction essentials such as reinforcing bar spacers.



Industrial Technology

Mounting channels, pipe clamps and other versatile framing systems that provide safe fixing in a wide range of industrial applications.

Leviat product ranges:

Ancon | Aschwanden | Connolly | Halfen | Helifix | Isedio | Meadow Burke | Modersohn | Moment | Plaka | Scaldex | Thermomass

Connolly Dowel Cradles

An effective load transfer system for saw cut contraction joints.

Connolly Dowel Cradles are produced with either round, square or plate dowels. All Dowel Cradles are supplied with a de-bonding sleeve to one half of the dowel to allow for contraction. Square and plate dowel cradles also allow for lateral movement. They are a welded wire assembly that ensures the horizontal and vertical alignment of dowels at the correct spacing and height. Maintaining the correct alignment of dowels across the joint is recognised as being the most important aspect of forming a dowelled joint.

Connolly Dowel Cradles are manufactured in 3 metre lengths from 6mm wire. They are available in a wide range of configurations to suit a variety of slab thicknesses and load requirements. They form a rigid assembly capable of withstanding the harsh treatment they frequently encounter during construction activities. They are easy to transport, handle and install, saving both time and money for the contractor. Dowel Cradles can also be custom manufactured to suit any specific configuration.



Features

- Ensures dowel alignment is maintained during concrete placement
- Fully customisable to suit engineer's requirements
- Quicker set up time on dowel installation
- Enables continuous pours
- Eliminates the need to tie dowels
- Dowels available in black steel, galvanised mild steel and stainless steel
- Can be used in conjunction with Connolly Ground Crack Inducers



Manufactured in an
ISO accredited factory



Made in
Australia



Cost-effective
solution



Nationwide
distribution network



Dedicated sales and
technical support



Standard items
available ex-stock

Dowel Cradle Specifications

The table below provides specifications for Connolly Dowel Cradles.
Please contact us to discuss any project specific requirements.

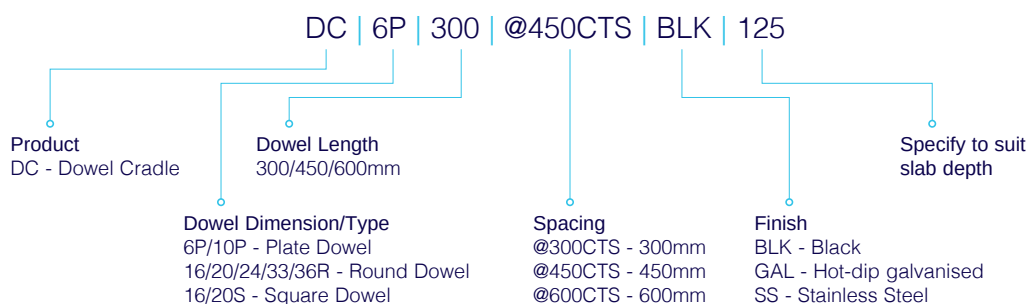
Product	DCP Plate Dowel Cradles	DCR Round Dowel Cradles	DCS Square Dowel Cradles
	Cradle Properties		
Height	Made to suit 1/2 slab depth as standard		
Length	DC6P & DC10P: 3000mm DCP20: 1100mm	DC12R to DC24R: 3000mm DC33R & DC36R: 1200mm	3000mm
	Dowel Properties		
Size	6 x 50mm 10 x 50mm 20x50mm	12-36mm dia. Other sizes available on request	16 and 20mm dia. Other sizes available on request
Length	300mm	450mm standard lengths. Other lengths are available on request.	450mm standard lengths. Other lengths available on request
Dowel Spacing (Custom spacings available on request)	DC6P & DC10P: 450mm DCP20: 300mm & 400mm	300mm standard spacing	450mm standard spacing
Material	Grade 300 mild steel to AS/NZS 3679.1 Galvanised mild steel to AS/NZS 4680 Stainless Steel to ASTM A276		
	Sleeve Properties		
Sleeve Type	Plate Dowel Sleeve	DC12R to DC24R: UDS DC33R & DC36R: Plastic heat shrink wrap	UDS*
Material	Polypropylene	UDS: Polypropylene PHSW: Polyethylene	Polypropylene
Lateral Movement	DC6P & DC10P: +/- 5mm DCP20: +/- 8mm	nil	+/- 3mm

* Connolly Universal Dowel Sleeves

Standard Range

Item Code	Description	Dowel Size (mm)	Dowel Spacing (mm)	Recommended Slab Depth (mm)	Dowel Finish
DC6P300@450CTSBLK150	Dowel Cradle 50x6x300mm centres to suit 150mm slab depth - Black	50x6x300	450	150	Black
DC6P300@450CTSGAL150	Dowel Cradle 50x6x300mm centres to suit 150mm slab depth - HDG	50x6x300	450	150	HDG
DC10P300@450CTSBLK180	Dowel Cradle 50x10x300mm centres to suit 180mm slab depth - Black	50x10x300	450	180	Black
DC10P300@450CTSGAL180	Dowel Cradle 50x10x300mm centres to suit 180mm slab depth - HDG	50x10x300	450	180	HDG

Part Number Identification



Dowel Cradle Design Capacities

The use of Connolly Dowel Cradles ensures that shear loads are safely transferred across the joint through dowels. We recommend referring to *TR34 – Fourth Edition – Concrete Industrial Ground Floors*, published by The Concrete Society, to determine the dowel capacity.

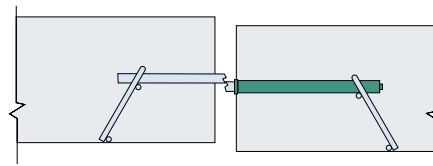
Section 6.5 of TR34 provides guidance on the calculation of dowel capacities for the following failure modes.

Dowel Shear Capacity

The table below shows the shear capacity of available dowels and finishes. The capacity values have been calculated using equation 16 and 18 of TR34, respectively.

Dowel	Dowel Heights mm	Finish	Shear Area ($0.9 \cdot A$) mm ²	Capacity (P_{sh}) kN
DCP 6x50	6	Black/HDG	270	45.0
DCP 6x50	6	Stainless	270	28.9
DCP 10x50	10	Black/HDG	450	75.1
DCP 10x50	10	Stainless	450	48.1
DCP 20x50	20	Black/HDG	900	131.5
DCP 20x50	20	Stainless	900	96.3
DCR 33	33	Black/HDG	770	120.5
DCR 33	33	Stainless	770	82.3
DCR 36	36	Black/HDG	916	143.4
DCR 36	36	Stainless	916	98.0
DCS 16	16	Black/HDG	230	36.1
DCS 16	16	Stainless	230	24.7
DCS 20	20	Black/HDG	360	56.3
DCS 20	20	Stainless	360	38.5

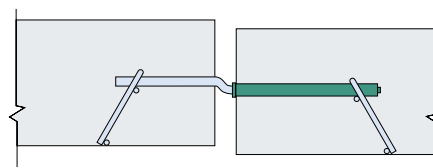
In most situations, at the point of ultimate load, the concrete would typically fail before the dowel.



Dowel Bearing/Bending Capacity

Bearing/Bending is a combined failure mode that checks the bending capacity of the dowel as well as the bearing capacity of the surrounding concrete. Equations 17 and 19 of TR34 define the bearing/bending capacity of a dowel.

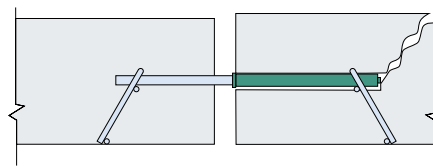
Please find the dowel bearing/bending capacities for different conditions in the combined capacity tables on pages 7 to 9.



Punching Shear (Bursting Forces)

Section 6.5.3 of TR34 recommends calculating the bursting load of the concrete by adapting the EC2 approach for punching failure, using an effective depth of 0.75 times the depth between the dowel and the surface of the concrete slab. Smaller dowel spacings might cause a reduction in the punching capacity. Any overlap between the punching shear perimeter of neighbouring dowels reduces the punching capacity. The spacing factor is included in the design capacities provided in this brochure.

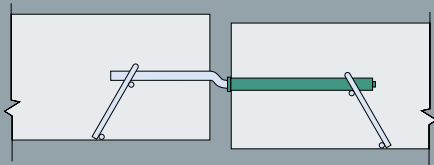
Please find the punching shear capacities for different conditions in the combined capacity tables on pages 7 to 9.



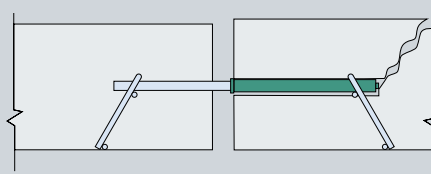
Dowel Cradle Design Capacities

The following tables provide single dowel capacities and the shear capacity per linear metre of selected Connolly Dowel Cradles, calculated in accordance with TR34 for various joint widths and concrete compressive strengths. The capacities provided in the table are minimum values from the failure modes: dowel shear, dowel bearing/bending and punching/bursting. Colour coding indicates the governing failure mode.

Dowel bearing/bending failure mode



Punching failure mode



Design Shear Capacity of Connolly 6x50x300mm Plate Dowel Cradle

Dowel Centres 450mm

Slab Depth 'D' (mm)	Joint Width (mm)	Concrete Strength (Mpa)			Concrete Strength (Mpa)		
		25	32	40	25	32	40
		Single Dowel Design Capacity (kN)			Design Capacity per linear metre (kN/m)		
125	5	13.70	15.50	17.33	30.45	34.45	38.52
	10	13.48	15.25	17.05	29.96	33.90	37.90
150	5	18.16	20.54	22.97	40.35	45.65	51.04
	10	15.47	16.52	17.44	34.38	36.71	38.76
180	5	19.54	21.42	23.19	43.42	47.59	51.54
	10	15.47	16.52	17.44	34.38	36.71	38.76
200	5	19.54	21.42	23.19	43.42	47.59	51.54
	10	15.47	16.52	17.44	34.38	36.71	38.76



Design Shear Capacity of Connolly 10x50x300mm Plate Dowel Cradle

Dowel Centres 450mm

Slab Depth 'D' (mm)	Joint Width (mm)	Concrete Strength (Mpa)			Concrete Strength (Mpa)		
		25	32	40	25	32	40
		Single Dowel Design Capacity (kN)			Design Capacity per linear metre (kN/m)		
150	5	17.41	19.69	22.02	38.68	43.76	48.93
	10	17.15	19.40	21.69	38.11	43.11	48.20
180	5	23.37	26.44	29.56	51.93	58.75	65.69
	10	23.05	26.08	29.16	51.23	57.96	64.80
200	5	27.78	31.43	35.14	61.73	69.84	78.08
	10	27.43	31.03	34.69	60.95	68.95	77.09
250	5	35.92	39.85	43.69	79.82	88.57	97.09
	10	31.04	33.82	36.41	68.97	75.16	80.92



Dowel Cradle Design Capacities

Design Shear Capacity of Connolly 20x50x300mm Plate Dowel Cradle

Dowel Centres 400mm



Slab Depth 'D' (mm)	Joint Width (mm)	Concrete Strength (Mpa)			Concrete Strength (Mpa)		
		25	32	40	25	32	40
		Single Dowel Design Capacity (kN)			Design Capacity per linear metre (kN/m)		
250	5	37.65	42.60	47.62	94.13	106.49	119.06
	10	37.22	42.11	47.08	93.06	105.28	117.71
300	5	51.96	58.78	65.72	108.25*	122.47*	136.92*
	10	51.44	58.20	65.07	107.16*	121.24*	135.55*
350	5	68.45	77.45	86.59	121.00*	136.90*	153.06
	10	67.84	76.75	85.81	119.92*	135.67*	151.69*
400	5	72.02	80.63	89.19	133.76*	151.33*	169.19*
	10	66.51	73.71	80.69	132.68*	150.11*	167.82*

*Revised capacity, see the note below.

Note: According to TR34.4 section 6.5, where the dowel spacing is such that the critical shear perimeters overlap, the shear capacity of the slab along a perimeter encompassing the loaded dowels must be checked. For more detailed information, Please contact the Leviat technical team on 1300 304 320 or email technical.au@leviat.com

Design Shear Capacity of Connolly Dowel Cradle Round 33x450mm

Dowel Centres 300mm



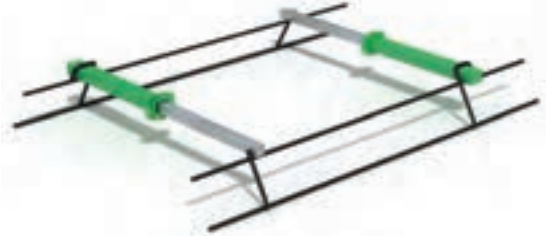
Slab Depth 'D' (mm)	Joint Width (mm)	Concrete Strength (Mpa)			Concrete Strength (Mpa)		
		25	32	40	25	32	40
		Single Dowel Design Capacity (kN)			Design Capacity per linear metre (kN/m)		
250	5	33.18	37.53	41.97	110.59	125.12	139.88
	10	32.84	37.15	41.54	109.47	123.85	138.46
300	5	37.80	42.76	47.81	126.00	142.55	159.37
	10	37.46	42.38	47.38	124.85	141.26	157.93
350	5	42.35	47.91	53.57	141.16	159.70	178.55
	10	42.00	47.52	53.13	140.00	158.40	177.09
400	5	46.85	53.01	59.26	156.17	176.69	197.54
	10	46.50	52.61	58.82	155.01	175.37	196.07



Design Shear Capacity of Connolly Dowel Cradle Round 36x450mm

Dowel Centres 300mm

Slab Depth 'D' (mm)	Joint Width (mm)	Concrete Strength (Mpa)			Concrete Strength (Mpa)		
		25	32	40	25	32	40
		Single Dowel Design Capacity (kN)			Design Capacity per linear metre (kN/m)		
250	5	32.72	37.02	41.39	109.07	123.39	137.96
	10	32.39	36.64	40.97	107.97	122.13	136.55
300	5	37.37	42.27	47.26	124.55	140.91	157.55
	10	37.03	41.89	46.83	123.42	139.63	156.11
350	5	41.93	47.44	53.04	139.77	158.13	176.80
	10	41.59	47.05	52.60	138.62	156.83	175.34
400	5	46.45	52.55	58.75	154.82	175.16	195.84
	10	46.10	52.15	58.31	153.66	173.85	194.37



Design Shear Capacity of Connolly Dowel Cradle Square 16x450mm

Dowel Centres 450mm

Slab Depth 'D' (mm)	Joint Width (mm)	Concrete Strength (Mpa)			Concrete Strength (Mpa)		
		25	32	40	25	32	40
		Single Dowel Design Capacity (kN)			Design Capacity per linear metre (kN/m)		
125	5	10.70	12.10	13.53	23.78	26.90	30.07
	10	10.70	12.10	13.53	23.78	26.90	30.07
150	5	14.62	16.54	18.39	32.49	36.75	40.87
	10	13.35	14.65	15.89	29.66	32.56	35.31
180	5	15.00	16.71	18.39	33.33	37.13	40.87
	10	13.35	14.65	15.89	29.66	32.56	35.31
200	5	15.00	16.71	18.39	33.33	37.13	40.87
	10	13.35	14.65	15.89	29.66	32.56	35.31



Design Shear Capacity of Connolly Dowel Cradle Square 20x450mm

Dowel Centres 450mm

Slab Depth 'D' (mm)	Joint Width (mm)	Concrete Strength (Mpa)			Concrete Strength (Mpa)		
		25	32	40	25	32	40
		Single Dowel Design Capacity (kN)			Design Capacity per linear metre (kN/m)		
150	5	15.60	17.64	19.73	34.66	39.21	43.84
	10	15.60	17.64	19.73	34.66	39.21	43.84
180	5	21.29	24.09	26.93	47.32	53.54	59.85
	10	21.29	24.09	26.31	47.32	53.54	58.46
200	5	23.99	26.81	29.60	53.32	59.58	65.78
	10	21.84	24.12	26.31	48.54	53.60	58.46
250	5	23.99	26.81	29.60	53.32	59.58	65.78
	10	21.84	24.12	26.31	48.54	53.60	58.46

Accessories

Ground Crack Inducers

Connolly Ground Crack Inducers are designed to induce controlled cracking at specific points in concrete slabs. The rigid PVC profile is held in place with the supplied pins and commonly used below Connolly Dowel Cradles. They can be used with a saw cut or Connolly Crack Inducer at the top of the concrete slab.

Features

- Easy installation
- Secures easily to the ground using PC pins to prevent movement during pours
- Lightweight and durable
- Ideally suited for use with Connolly Dowel Cradles
- Can save money by helping reduce slab cutting depth



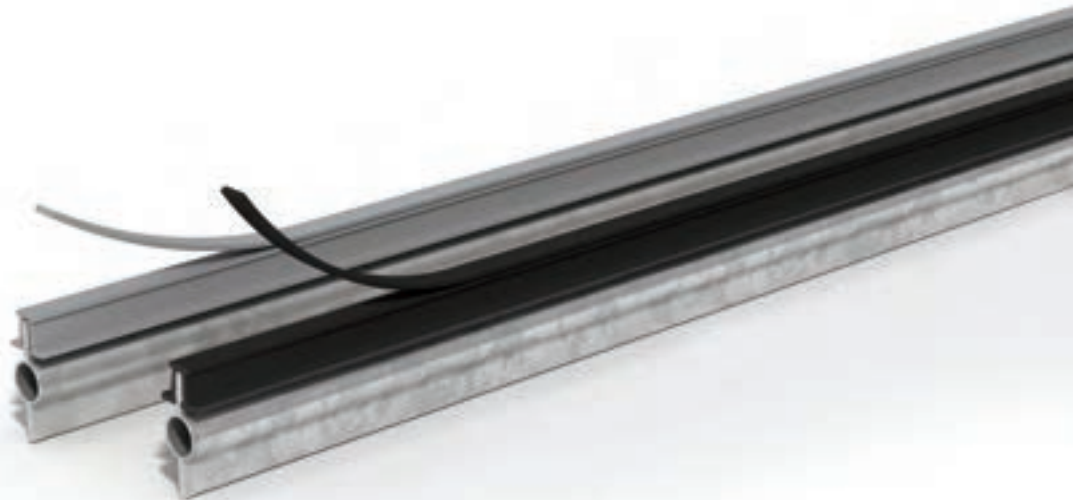
Crack Inducers

Connolly Crack Inducers are an economical surface crack control strip for small pours and decorative concrete applications. Installed in wet concrete, Connolly Crack Inducers eliminate the need for tooled or sawn joints and protect the joint against the ingress of foreign particles.

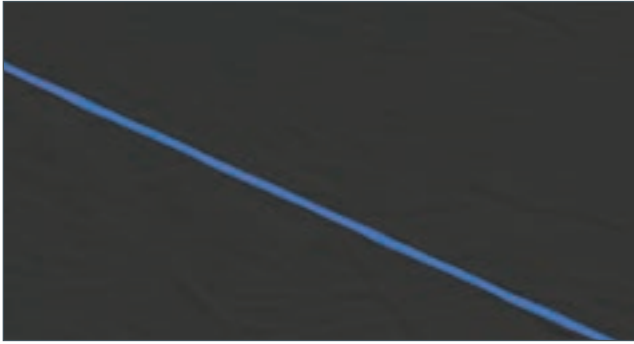
Connolly Crack Inducers are a roll-formed galvanised steel section available in 3 metre lengths. They are available in 25mm and 45mm heights and can be supplied with or without a permanent, flexible PVC capping. The permanent PVC capping is available in black or grey and comes with a tear-off-strip to allow for a slurry-free finish.

Features

- Permanent capping with tear-off strip
- Replaces saw cuts
- Available in black or grey
- Allows for a slurry-free finish

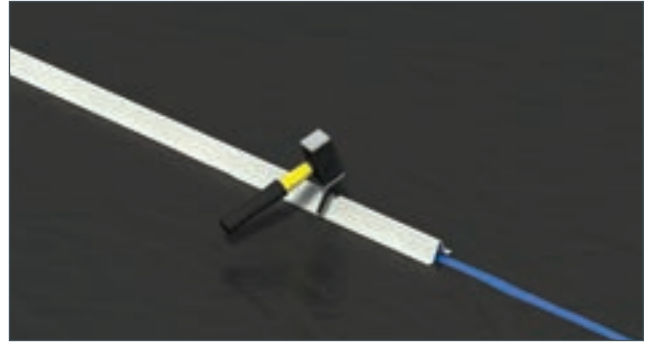


Installation Guide



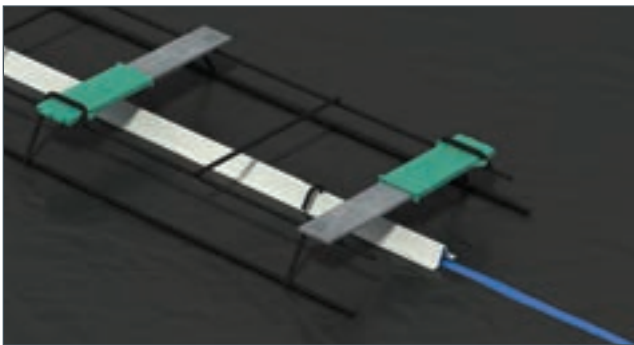
Step 1

Mark the joint line, specified by the engineer, on the ground and make sure the lines are extended on the formwork to find the exact location of cut.



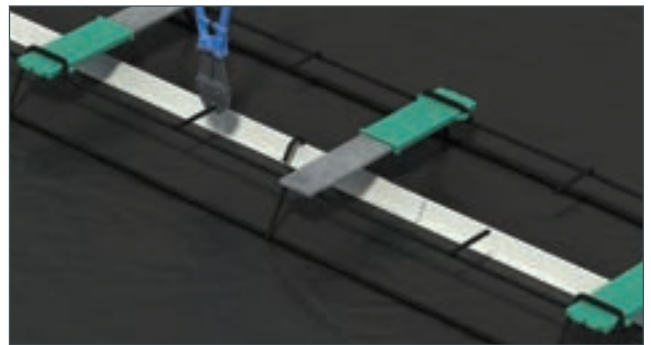
Step 2

Place the Connolly Ground Crack Inducer, as specified by the engineer, on the joint line. Secure Ground Crack Inducer by driving the supplied pins through the holes in the profile.



Step 3

Connolly Dowel Cradles should be placed in position centrally along the joint line over the Ground Crack Inducers.



Step 4

Cut the travel bars using a bolt cutter or angle grinder. Please note, failure to carry out this step will prevent the joint from functioning correctly.



Step 5

Pour and finish the concrete.

Important Notes:

Ensure dowel alignment is maintained during concrete placement.

If the saw cut is not completed in the time frame specified by the slab designer, uncontrolled cracking can occur.

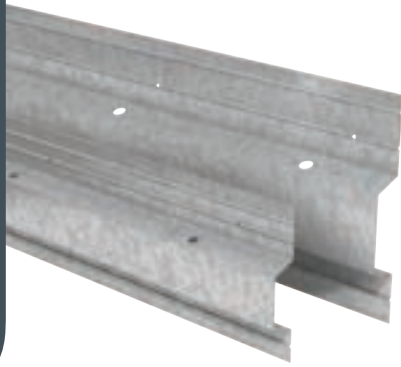


Step 6

Either saw cut to engineer's specification along the centre line of the Dowel Cradle or, immediately after screeding concrete to the finished level, lay the Connolly Crack Inducer along the proposed joint line. Please refer to Crack Inducer installation guide for further information.



Connolly Product Range



Key Joint

Connolly Key Joints are a continuous pour solution for contraction joints in slab on ground applications. Key Joints are a roll formed galvanised steel section used as a leave-in-place formwork to control shrinkage induced cracking. The profile is fixed in place using our patented peg and wedge system. Key Joints are available in 3 and 6m lengths for slab thicknesses from 100mm to 300mm.



Biscuit Dowel Plates

Connolly Biscuit Plate Dowels are designed to transfer loads across construction joints in slab-on-ground applications, allowing for expansion, contraction and lateral movement at the joint. The plastic sleeve encases one half of the plate dowel to de-bond the dowel from the concrete. Biscuit Plate Dowels are available in 6mm and 10mm thicknesses in black, hot-dip galvanised or stainless steel finish.



Expansion Joint System

The Connolly Expansion Joint System is a continuous pour solution for expansion joints in slab-on-ground applications. They are a roll formed galvanised steel section with 10mm cross linked foam to provide a leave-in-place formwork that allows for joint expansion. The profile has pre-drilled holes that allows it to be used in conjunction with Connolly Universal Dowel Sleeves. The expansion joint profile is available in 3 metre lengths for slab thicknesses from 100mm to 200mm. Custom lengths and heights are available on request.



Universal Dowel Sleeves

Connolly Universal Dowel Sleeves are available for round and square dowels allowing load transfer across joints in slab-on-ground applications. The sleeve encases one half of the dowel to de-bond the dowel from the concrete. All universal dowel sleeves allow for expansion and contraction at the joint with the square variety also allowing for lateral movement.



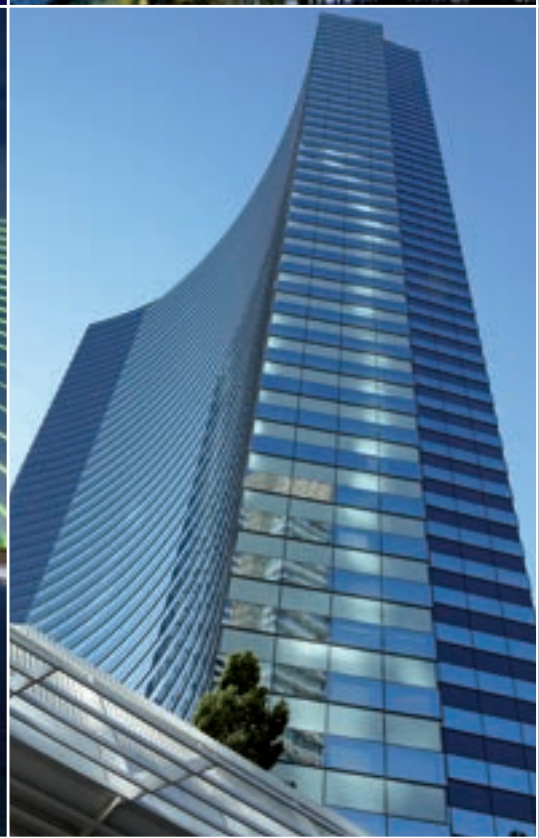
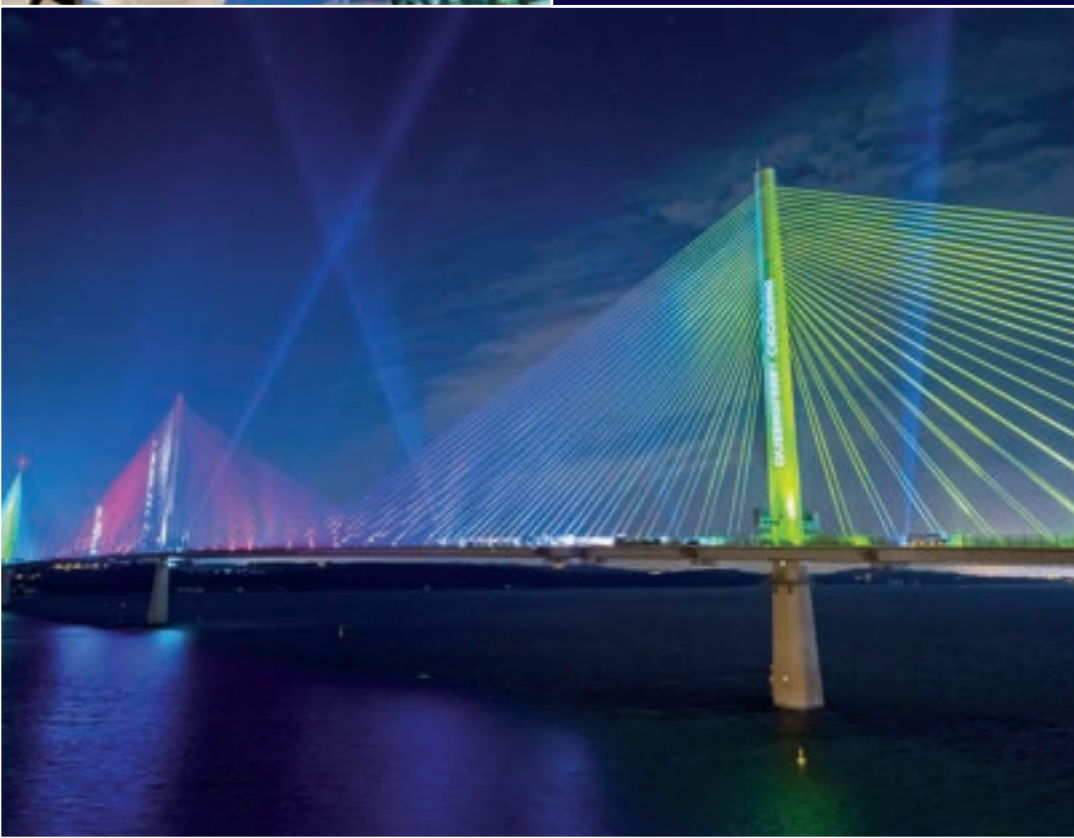
Safety Caps

Connolly Safety Cushion Caps are designed to reduce the risk of injury on-site. Made from recyclable plastic, the safety caps are suitable for steel reinforcing bars N12-N32mm, as well as Star Pickets.



Leviat®

Innovative engineered products
and construction solutions that
allow the industry to build safer,
stronger and faster.



Contact Leviat worldwide

Australia

Unit A, 1 Heinrich Close,
Eastern Creek, Sydney, NSW 2766
Tel: +61 - 2 8808 3100
Email: info.au@leviat.com

Austria

Leonard-Bernstein-Str. 10
Saturn Tower, 1220 Wien
Tel: +43 - 1 - 259 6770
Email: info.at@leviat.com

Belgium

Industrielaan 2
1740 Ternat
Tel: +32 - 2 - 582 29 45
Email: info.be@leviat.com

China

Room 601 Tower D,
Vantone Centre
No. A6 Chao Yang Men Wai Street
Chaoyang District
Beijing P.R. China 100020
Tel: +86 - 10 5907 3200
Email: info.cn@leviat.com

Czech Republic

Pekařská 695/10a
155 00 Praha 5
Tel: +420 - 311 - 690 060
Email: info.cz@leviat.com

Finland

Vädursgatan 5
412 50 Göteborg / Sweden
Tel: +358 (0)10 6338781
Email: info.fi@leviat.com

France

6, Rue de Cabanis
31240 L'Union
Tel: +33 (0)5 34 25 54 82
Email: info.fr@leviat.com

Germany

Liebigstrasse 14
40764 Langenfeld
Tel: +49 - 2173 - 970 - 0
Email: info.de@leviat.com

India

Unit S4, 902, A Wing,
Lodha iThink Techno Campus Building,
Panchpakhadi, Pokharan Road 2,
Thane, 400606
Tel: +91-022 695 33700
Email: info.in@leviat.com

Italy

Via F.lli Bronzetti 28
24124 Bergamo
Tel: +39 - 035 - 0760711
Email: info.it@leviat.com

Malaysia

28 Jalan Anggerik Mokara 31/59
Kota Kemuning,
40460 Shah Alam Selangor
Tel: +603 - 5122 4182
Email: info.my@leviat.com

Netherlands

Oostermaat 3
7623 CS Borne
Tel: +31 - 74 - 267 14 49
Email: info.nl@leviat.com

New Zealand

246D James Fletcher Drive, Otahuhu,
Auckland 2024
Tel: +64 - 9 276 2236
Email: info.nz@leviat.com

Philippines

27F Office A, Podium West Tower,
12 ADB Avenue, Ortigas Center
Mandaluyong City, 1550
Tel: +63 - 2 7957 6381
Email: info.ph@leviat.com

Poland

Ul. Obornicka 287
60-691 Poznań
Tel: +48 - 61 - 622 14 14
Email: info.pl@leviat.com

Singapore

10 Benoi Sector,
Singapore 629845
Tel: +65 - 6266 6802
Email: info.sg@leviat.com

Spain

Polígono Industrial Santa Ana
c/ Ignacio Zuloaga, 20
28522 Rivas-Vaciamadrid
Tel: +34 - 91 632 18 40
Email: info.es@leviat.com

Sweden

Vädursgatan 5
412 50 Göteborg
Tel: +46 - 31 - 98 58 00
Email: info.se@leviat.com

Switzerland

Grenzstrasse 24
3250 Lyss
Tel: +41 (0)800 22 66 00
Email: info.ch@leviat.com

United Arab Emirates

RA08 TB02, PO Box 17225
JAFZA, Jebel Ali, Dubai
Tel: +971 (0)4 883 4346
Email: info.ae@leviat.com

United Kingdom

President Way,
President Park,
Sheffield S4 7UR
Tel: +44 - 114 275 5224
Email: info.uk@leviat.com

USA / Canada

6467 S Falkenburg Road
Riverview, FL 33578
Tel: (800) 423-9140
Email: info.us@leviat.us

For countries not listed
Email: info@leviat.com

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Sales Offices and Production

New South Wales, Sydney

Unit A, 1 Heinrich Close,
Eastern Creek | Sydney
NSW 2770

New South Wales, Casino

10 Irving Drive
Casino
NSW 2470

Victoria

9/63-69 Pipe Road
Laverton North | Melbourne
VIC 3026

Queensland

4/15 Terrace Place
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South Australia

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