

AUS & NZ | **ISSUE 2023**



**DANLEY**™

Residential  
Industrial  
Commercial

**Plastic**

**Chairs & Spacers**

Product Catalogue



Danley™ Plastic Chairs & Spacers  
comply with the requirements of  
AS/NZS 2425:2015


Refer to the back of this  
booklet for contact information.

## NZBC Compliance

### Compliance statement

Danley™ Keyjoint & Keyjoint Expanda™ complies with the New Zealand Building Code clauses identified below.

### Compliance details: NZBC

NZBC Clause	Criteria	Compliance Status
B1.3.1	'Buildings, building elements and sitework shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout their lives.'	
B1.3.2	'Buildings, building elements and sitework shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during construction or alteration when the building is in use.'	
B1.3.3 (a), (b), (d), (e), (f), (g), (h), (j), (q)	'Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including: (a) Self weight, (b) Imposed gravity loads arising from use . . . (d) Earth pressure, (e) Water and other liquids, (f) Earthquake, (g) Snow, (h) Wind . . . (j) Impact . . . (q) Time dependent effects including creep and shrinkage.'	
B1.3.4	'Due allowance shall be made for: (a) The consequences of failure, (b) The intended use of the building, (c) Effects of uncertainties resulting from construction activities, or the sequence in which construction activities occur, (d) Variation in the properties of materials and the characteristics of the site, and (e) Accuracy limitations inherent in the methods used to predict the stability of buildings.'	
B2.3.1 (a)	'Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or: (a) The life of the building, being not less than 50 years, if (i) Those building elements . . . Provide structural stability to the building, or (ii) Those building elements are difficult to access or replace, or (iii) Failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building.'	
F2.3.1	'The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.'	

 All Danley™ plastic chairs and spacers Meet the building code requirements for durability B2 Durability, B2.3.1



# AS/NZS 2425:2015 Compliance

## What is AS/NZS 2425:2015?

AS/NZS 2425:2015 bar chairs in reinforced concrete - product requirements and test methods is a mandatory standard that covers minimum durability requirements for chairs and spacers used in concrete construction. All plastic chairs and spacers used in reinforced concrete construction MUST comply with the requirements of AS/NZS 2425:2015.



## Are you using AS/NZS 2425:2015 compliant bar chairs & spacers? What is at risk?

- Unsatisfactory manufacture and application of bar chairs and spacers can lead to the misplacement of steel reinforcement.
- This in turn, may compromise structural strength and reduce the durability of reinforced concrete.
- Asset Owners, Engineers, Suppliers and Building Surveyors are responsible for ensuring that compliant products are manufactured, specified and installed on construction projects.

## How do we comply?

As a trusted and leading supplier of plastic chairs & spacers, RCS complies with the testing requirements of AS/NZS 2425:2015, by ensuring:

- We conduct ongoing batch testing.
- Test chairs & spacers to strength grade categories of 60kg, 120kg, 200kg and >300kg.
- Pre-load test specimens to 20kg.
- Under pre-load: Chairs <75mm to deflect ±1mm. Chairs ≥75mm to deflect ±2mm.
- Test chairs at 30°C (±2°).
- Apply load to test samples for a minimum duration of 1 minute.
- Deflection under load ±3mm.
- After applied load, the final recovered position of the test specimens must be <2.0mm.
- All test results are to be recorded and retained for a minimum duration of 2 years.
- Packaging must clearly identify the supplier details, strength rating and batch test traceability.



**PROUDLY MADE IN AUSTRALIA.**

Danley™ plastic chairs & spacers are manufactured in our ISO 9001 Accredited Facility.



**Australian & New Zealand Standard AS/NZS 2425:2015 is now mandatory. Do your bar chairs and spacers comply?**

Non-compliant bar chairs may compromise the structural integrity of concrete.



Every batch of Danley™ chairs and spacers we manufacture are tested in our NATA endorsed facility in Melbourne.



**Certificate of Conformance:**  
Available on request, RCS can provide a Certificate of Conformance for plastic chairs & spacers manufactured in our ISO 9001 Accredited facility.



**CONFORMANCE CERTIFICATE QA700**

Report Date: 13/04/2022  
Product Code: BPC016275  
Product Description: Top Deck Bar Chair (82/75mm)  
Batch Number: BPC016275\_16081627  
Date of Testing: 13/03/2021  
Batch Testing Result: PASS

**Quality Statement**

BPC016275 Top Deck Bar Chairs have been manufactured according to AS/NZS 2425:2015.

Parameter	Test Method	Test Results	Acceptance Criteria
Strength	AS/NZS 2425:2015	0.8 kN	0.8 kN
Deflection	AS/NZS 2425:2015	1.5 mm	2.0 mm
Recovery	AS/NZS 2425:2015	0.8 mm	2.0 mm

**Notes:**  
The test results shown above will be affected by the spacing of the bar chairs and therefore the number of chairs in the test.  
AS 2112.2 (Structural Formwork) requires a maximum bar chair spacing of 800mm for residential projects.  
The National Construction Code Volume 2 requires a maximum bar chair spacing of 800mm for buildings.

Name: Glen Taylor  
Job Title: Product Manager  
Signature:

Reid Construction Systems  
www.reidconstruction.com.au

All Danley™ plastic chairs and spacers comply with the requirements of AS/NZS 2425:2015

## Combination Bar Chairs:

Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BC2540	Combination Bar Chair 25/40mm	A	120	PK	100	5,000	1,000	1.44
BC5065	Combination Bar Chair 50/65mm	A	120	PK	100	6,000	1,300	1.87
BC5065C	Combination Bar Chair 50/65mm Clip-On	A	120	PK	100	6,000	1,300	1.87
BC7590	Combination Bar Chair 75/90mm	A	120	PK	100	4,000	1,100	2.16
BC85100	Combination Bar Chair 85/100mm	A	120	PK	100	4,000	1,500	2.16

### Notes:

**Combination Bar Chairs** are used to set the reinforcing bar and mesh to the correct position within the concrete cover.

**Combination Bar Chair Clip-On (BC5065C)** The easy to use, push-on clip mechanism allows the bar chair to swing into a vertical position as the mesh is being positioned or moved on site.

**Complies with the requirements of AS/NZS 2425:2015.**

**Meet the building code requirements for durability B2 Durability, B2.3.1**



## Tall Combination Bar Chairs:

Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BC105110	Tall Combination Bar Chair 105/110	A	120	PK	100	4,000	1,450	2.09
BC115120	Tall Combination Bar Chair 115/120	A	120	PK	100	2,400	1,550	2.23
BC125130	Tall Combination Bar Chair 125/130	A	120	PK	100	2,400	1,550	2.23
BC135140	Tall Combination Bar Chair 135/140	A	120	PK	100	4,000	1,590	2.29
BC145150	Tall Combination Bar Chair 145/150	A	120	PK	100	2,400	1,470	2.12
BC155160	Tall Combination Bar Chair 155/160	A	120	PK	100	2,000	1,470	2.12
BC165170	Tall Combination Bar Chair 165/170	A	120	PK	50	2,000	1,500	2.16

### Notes:

**Tall Combination Bar Chairs** are used to set the reinforcing bar and mesh to the correct position within the concrete cover for heavy duty, slab-on-ground applications.

The Danley™ range of Tall Plastic Combination Bar Chairs are available in a range of standard sizes.

**Complies with the requirements of AS/NZS 2425:2015.**

**Meet the building code requirements for durability B2 Durability, B2.3.1**



BC125130

### Product Grade:

**"A" Graded Products:** Goods usually kept in stock in historical quantities.

**"B" Graded Products:** Raw materials usually kept in stock and manufactured to customer order.

## SOG Bar Chairs:

Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BSOG100C	SOG Chair 100mm Clip-On	A	300	PK	100	3,200	1,150	1.66
BSOG110C	SOG Chair 110mm Clip-On	A	300	PK	100	3,200	1,150	1.66
BSOG110DC	SOG Chair 110mm Double Clip-On	B	300	PK	100	3,000	1,180	1.66
BSOG120C	SOG Chair 120mm Clip-On	A	300	PK	100	2,800	1,050	1.66
BSOG127DC	SOG Chair 127mm Double Clip-On	B	300	PK	100	2,800	1,180	1.66
BSOG130C	SOG Chair 130mm Clip-On	A	300	PK	100	2,800	1,180	1.70
BSOG140C	SOG Chair 140mm Clip-On	A	300	PK	100	2,400	1,000	1.44
BSOG150C	SOG Chair 150mm Clip-On	A	300	PK	100	2,400	1,100	1.58

### Notes:

The Danley™ SOG (Slab-On-Ground) Bar Chairs are used to set the reinforcing bar and mesh to the correct position in deeper slabs cast for residential, commercial and civil slab-on-ground applications.

Complies with the requirements of AS/NZS 2425:2015.

Meet the building code requirements for durability B2 Durability, B2.3.1



BSOG110C

## Combination SOG Clip-On Bar Chair:

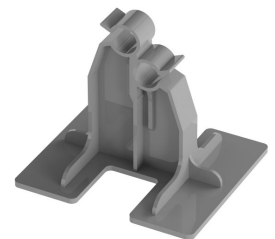
Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BCSOG5065C	Bar Chair SOG Clip-On 50/64	A	120	PK	100	5,400	1,500	2.16

### Notes:

Combination SOG Clip-On Bar Chair (BCSOG5065C) is also suited for use in foundations, swimming pools and vertical spray-crete applications as the chair stays secured to the mesh and wont slip or dislodge.

Complies with the requirements of AS/NZS 2425:2015.

Meet the building code requirements for durability B2 Durability, B2.3.1



BCSOG5065C

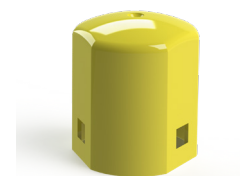
## BarGuard Safety Cap:

Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BARGY100	Bar Guard Safety Cap Yellow (100)	A	NA	PK	100	5,000	1,150	1.66

### Notes:

The Danley™ BarGuard™ reduces the chance of cuts and abrasions from exposed reinforcing bars up to 36mm in diameter. They are also able to fit over star pickets and most stakes on safety barriers.

Meet the building code requirements for durability B2 Durability, B2.3.1



BARGY100

## PodRail:

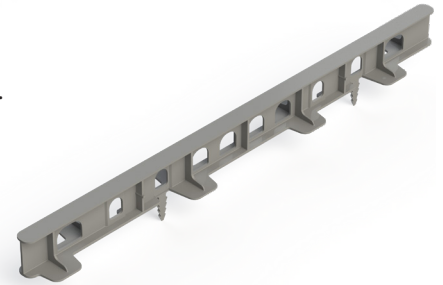
Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BPODR40S	Pod Rail 40mm with spikes	A	60	PK	20	1,600	1,050	1.51

### Notes:

The Danley PodRail™ provides support for mesh in typical residential foam pod slabs. Its unique flatness & rigidity gives it the ability to resist sinking into pods. Using just 2 PodRails per pod, the Podrail is fast and easy to install, saving time and reducing fatigue during set up.

**Complies with the requirements of and AS 2870-2011.**

**Meet the building code requirements for durability B2 Durability, B2.3.1**



BPODS40R

## PodStar Spacer:

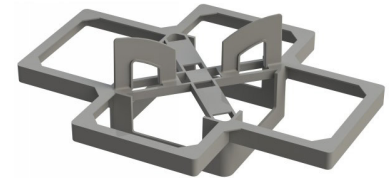
Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BPODS	Pod Star Spacer	A	60	PK	10	720	1,400	2.02
BPODEX105	Pod Star Extension	A	60	PK	100	5,000	-	1.50

### Notes:

The PodStar™ acts as a spacer keeping the foam pods at a designed 110mm spacing forming internal beams of uniformed width.

**Complies with the requirements of AS/NZS 2425:2015.**

**Meet the building code requirements for durability B2 Durability, B2.3.1**



BPODS

## Trench Mesh Supports:

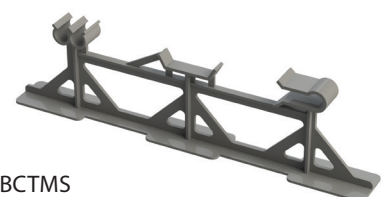
Part	Description	Grade	AS/NZS 2425 Rating	UoM	Pack Qty	Pallet Qty	Pallet Height (mm)	Pallet m <sup>3</sup>
BCTMS	Trench Mesh Supports for 8-12mm Bar	A	60	PK	25	3,000	1,050	1.51
BCTMS016	Trench Mesh Supports for 16mm Bar	A	60	PK	25	3,000	1,050	1.51
BCTMSEB300	Trench Mesh Support Edge Beam Spacer 300mm	A	60	PK	25	3,000	1,050	1.51

### Notes:

Danley™ Trench Mesh Supports are designed to suit typical trench mesh and reinforcement bar sizes used in edge beams.

**Complies with the requirements of AS/NZS 2425:2015.**

**Meet the building code requirements for durability B2 Durability, B2.3.1**



BCTMS



## About Us...

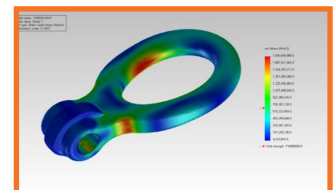
RCS is a division of Illinois Tool Works (ITW) a Fortune 500 diversified manufacturing company that brings together the combined resources of market leading brands including Reid™, Danley™ and Miska™.

Specialising in providing smart engineered concrete solutions for both wet and dry concrete construction, RCS devotes it's resources to research and development, engineering & design services, manufacturing and distribution, whilst retaining a specialist sales and specification structure.

With manufacturing hubs located in Melbourne and Brisbane, and a network of distribution centres in all the major metropolitan locations throughout Australia and New Zealand, RCS services the concrete construction industry across the Commercial, Precast, Tilt-Up, Structural Steel, Industrial and Residential Flooring market segments.



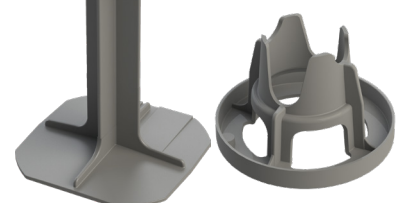
The RCS ISO 9001 accredited facility located at Chirside Park, Victoria



## Product Research, Development, Testing & Compliance

Through our ongoing commitment to product research, development and testing, RCS has established a dedicated team and fully functioning Product Engineering Laboratory dedicated to understanding and improving concrete construction.

The establishment and continued support of this initiative demonstrates our commitment and belief in the growth of the concrete industry and serves as a dynamic platform to provide our customers first hand testing, training and familiarisation. This ultimately augments RCS's commitment to innovative solutions to progress the concrete construction Industry.



**Danley™ Plastic Chairs & Spacers  
comply with the requirements of  
AS/NZS 2425:2015**



## Customer Service

### Danley™ Australia

Tel: 1300 780 250

Email: [sales@itwcsanz.com](mailto:sales@itwcsanz.com)

Web: [www.danley.com.au](http://www.danley.com.au)

### Danley™ New Zealand

Tel: 0800 88 22 12

Email: [sales@ramsetreid.co.nz](mailto:sales@ramsetreid.co.nz)

Web: [www.danley.co.nz](http://www.danley.co.nz)

#### Reid™ Construction Systems (RCS)

AUS: 1 Ramset Drive, Chirnside Park, Victoria, Australia, 3116

NZ: 23-29 Poland Road, Glenfield, Auckland 0632

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