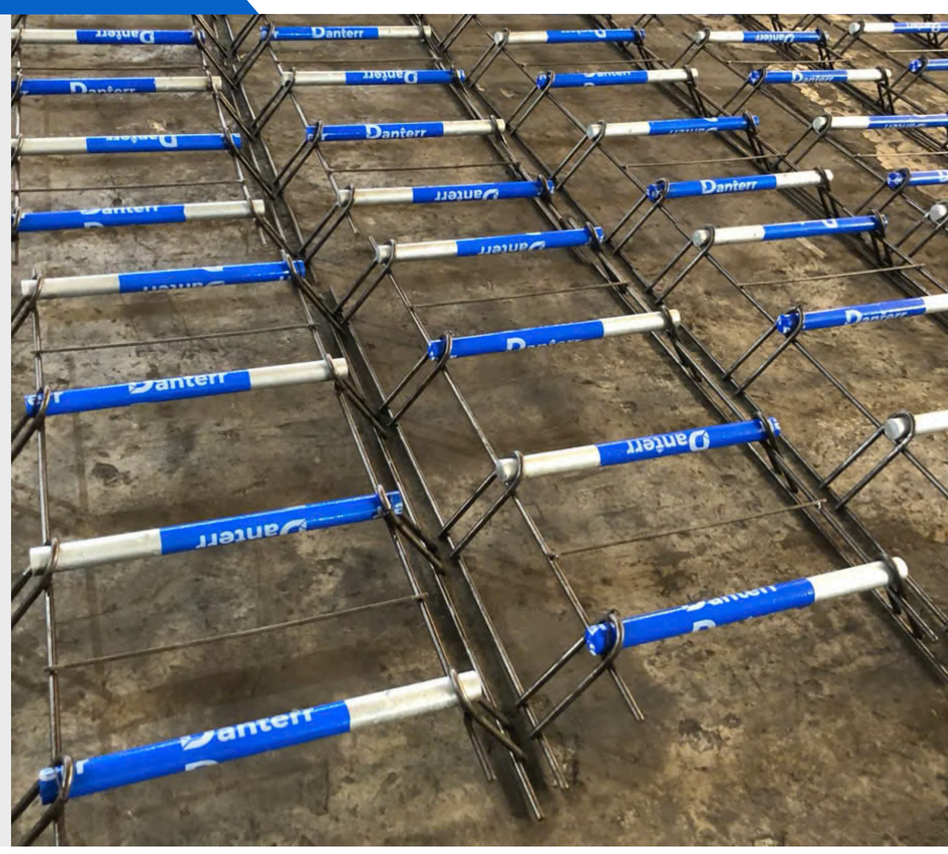
TECHNICAL DATA SHEET

# Custom Round Dowel Cradle

## PRODUCT DESCRIPTION

Danterr's Custom Round Dowel Cradle is a prefabricated, leave-in-place load transfer system specifically designed for sawn or induced contraction joints in concrete slabs. It consists of a steel wire cradle and round dowel bars housed within sleeves to ensure precise alignment, optimal load transfer, and effective slab movement control. Ideal for both internal and external applications, the system allows for easy installation while reducing the risk of slab cracking and joint failure due to misalignment or restraint.



## FEATURES & BENEFITS

- Prefabricated and ready to install – reduces setup time and labour.
- Ensures precise dowel positioning at slab centre for optimal load transfer.
- Permits longitudinal slab movement to accommodate shrinkage and thermal changes.
- Available in Black or Hot Dip Galvanised (HDG) finishes for durability in varied environments.
- Suitable for slab depths from 125 mm to 250 mm.
- Sleeve system included for accurate contraction joint formation.
- Lightweight and robust design for efficient handling and transport.
- Fully customisable – contact us for project-specific requirements.

## APPLICATIONS

- Civil and industrial infrastructure projects
- Slabs on grade for warehouses, factories, and transport facilities
- Pavements and external slab installations
- Projects requiring controlled movement and high-performance joints

## TECHNICAL SPECIFICATIONS

### TYPICAL PHYSICAL PROPERTIES

| Property | Typical Values |
|---|---|
| Dowel Type | Smooth Round Steel Bar |
| Diameter Range | Typically D16–D32 (other sizes available upon request) |
| Length Range | Commonly 300 mm – 600 mm (custom lengths available) |
| Centre Spacing | Typically 450 mm (adjustable based on slab design) |
| Cradle Length | 1000 mm standard (can vary based on number of dowels per cradle) |
| Recommended Slab Depth | 125 mm – 250 mm depending on dowel and design requirements |

### INSTALLATION GUIDANCE

1. Mark the contraction joint location with a chalk or string line.
2. Position the cradle directly over the marked line.
3. Secure in place using wire pins if necessary.
4. Cut connecting cross wires to allow movement before concrete placement.
5. Pour and vibrate concrete to ensure full encapsulation.
6. Perform saw cut to 25–30% of slab depth within 24 hours.

### STORAGE & HANDLING

- Store in a dry, covered area away from corrosive elements.
- Handle with gloves to avoid injury from sharp steel edges.
- Maintain stack integrity during transport and storage.

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