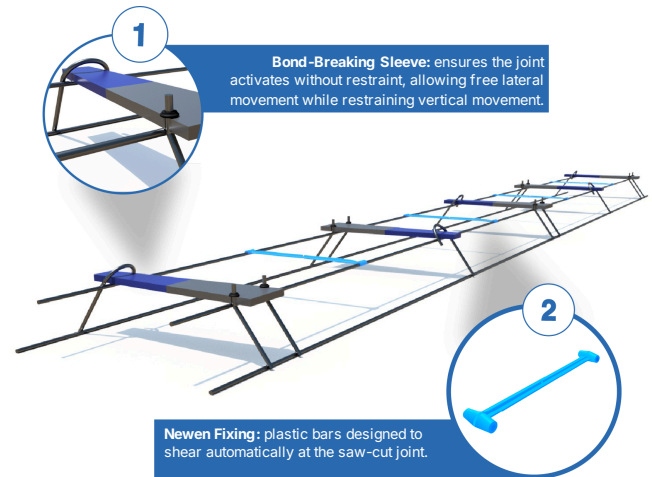


Description

The DCS Basket dowel support provides the highest deflection-control tolerance in line with ACI recommendations to **limit joint spalling, facilitate load transfer** and give the lowest risk of restraint, ensuring the best serviceability outcome for the slab design.

Using the DCS Basket system **extends the life cycle of the floor**, giving users the highest level of surface efficiency and the asset owner the greatest return on investment.



DCS Basket with Bond-Breaking Sleeve and Newen Fixing

- The DCS Basket trapezoidal plate is fitted with a **bond-breaking sleeve** that allows the joint to open and move laterally while restraining vertical movement.
- The support basket ensures precise placement and alignment of the dowels at the correct centers and height within the slab.
- Direct contact between concrete and steel provides superior control of load deflection.
- Designed to meet the super flat floor (SFF) requirements of ACI 360R-10.
- The DCS Basket trapezoidal plate creates a void for lateral and longitudinal movement.
- Reduces the risk of restraint.
- Provides fast, accurate horizontal and vertical placement.
- **Newen Fixing** is a plastic spacer that replaces traditional steel bars and is designed with specific break points that shear during early-age cracking of the concrete.
- **Improved safety:** eliminates the sharp edges of traditional steel bars.
- **Faster setup and installation:** saves time, effort and money on the project, with no more cutting of traditional steel bars.
- The full range of DCS Basket Newen Fixing units is supplied fitted with plastic bars.

DCS Basket is part of:

✓ Design Nominal Joint

Where the use and/or appearance of the facility calls for fewer joints, nominal joint design is a reliable, cost-effective option for reducing saw-cut contraction joints while delivering a dependable, high-performance floor. This design allows wider joint spacing by using trapezoidal plates for joint stability.

✓ Design Strategic Reinforcement

"Strategic reinforcement" is a cost-effective, performance-based design for interior and exterior concrete slabs exposed to wheeled traffic. Applicable to a wide range of facility types, it is used by owners around the world. By removing steel from the middle of the panel and placing trapezoidal plates where steel is really needed, at the joints, it optimizes materials and minimizes spalling and random cracking at the joints.

Benefits of the DCS Basket System

Engineering benefits

- Provides the highest performance for controlling joint deflection.
- Compliance with ACI 360R-10 limits differential deflection under load to less than 0.010 in (0.25 mm).
- Galvanized finish to AS/NZS 4680.
- Accurate plate placement ensures the most effective load-transfer performance.

Operational benefits

- Reduces spalling damage at the joint.
- Reduces maintenance costs and downtime.
- Provides smoother surfaces at the joints, increasing operational efficiency.

Concrete placement benefits

- Greater speed and accuracy in the concrete placement process.
- Greater stakeholder satisfaction.
- A wider optimal window for cutting the joint, giving greater tolerance for accuracy.