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HALFEN USA Inc. eliminates pour strips from post tensioned concrete construction with HSD-LD Lockable Dowels and new HSD-LD calculation software

With over 80 years of innovative experience, HALFEN introduces the HSD-LD Lockable Dowel system which offers a new approach to designing and realizing post tensioning construction—without the need for pour strips and complicated formworks. Together with the new HSD-LD calculation software, the HSD-LD system offers the complete package: from designing and calculating the tension joints in the concrete slabs to eliminating the need for pour strips altogether.

Knowing the advantages of post tension construction, but also the difficulties that come with this construction method, HALFEN has engineered the HSD-LD Lockable Dowels system to help the designers, engineers, and contractors work closer together on their projects, while eliminating the time management issues that arise from having to deal with pour strips on site.

HALFEN HSD-LD Lockable Dowels are designed to be used at temporary movement joints that are most commonly found in post-tensioned concrete frames. HSD-LD Lockable Dowels allow initial shrinkage of the concrete to take place, and are then locked in position with a mechanical plate and a controlled amount of epoxy resin. The locked dowels continue to transfer shear, but prevent further movement from taking place.

The result: HALFEN HSD-LD's accelerate the rate of construction, improve site access, and minimize formwork requirements.

The HSD-LD Lockable Dowels Calculation Software is intuitive to use and offers straightforward ways to dimension joints using HSD-LD Lockable Dowels. The software allows calculations of slab-to-slab (HSD-LD), as well as slab-to-wall (HSD-LD-W) connections. The program is designed to offer quality printouts of the calculations and an easy to follow, detailed parts list of the required HSD-LD system. In addition, the Software enables the designer to combine multiple conditions in one file, and offers 2D and 3D illustrations of the calculated situations.

[Click to view](#) the HSD-LD Lockable Dowels Catalog; for the HSD-LD Software, please click [here](#).

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