

SPEED DOWEL®

MASTER SPECIFICATION

SUGGESTED MASTER SPECIFICATION

SECTION 03 21 00 SLIP DOWEL SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES:

- A. Provision for assuring proper field positioning and alignment of slip dowels at concrete flatwork construction joints and expansion joints.
- B. Provision for allowing free shrinkage and expansion of concrete surfaces adjacent to construction or expansion joints while providing proper load transfer and preventing differential settlement.

1.02 RELATED SECTIONS:

- A. Section 03 10 00 - Concrete Forming and Accessories
- B. Section 03 20 00 - Concrete Reinforcing
- C. Section 03 30 00 - Cast-In-Place Concrete

1.03 REFERENCES:

- A. American Concrete Institute (ACI):
 1. ACI 117: Specifications for Tolerances for Concrete Construction and Materials and Commentary
 2. ACI 302.1R: Guide for Concrete Floor and Slab Construction
 3. ACI 315 – SP-66: ACI Detailing Manual
 4. ACI 223: Standard Practice for the Use of Shrinkage Compensating Concrete
 5. ACI 224.3R: Joints in Concrete Construction
 6. ACI 330R: Guide for the Design and Construction of Concrete Parking Lots
 7. ACI 360R: Guide to Design of Slabs-on-Ground

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Sika (St. Louis Sales Office). Phone: 800-325-9504 Fax: 800-551-5145, USA.Sika.com

2.02 MATERIALS

- A. Provide two component SPEED DOWEL system, to accept ___ " diameter x ___ " long slip dowel (fill in appropriate slip dowel dimensions).
- B. SPEED DOWEL System is comprised of a reusable base and a plastic sleeve. Both pieces shall be manufactured from polypropylene plastic.



PART 3 EXECUTION

3.01 INSTALLATION

- A. Attach bases to the face of concrete forms at the specified on center spacing using a double-headed nail or self-tapping screw.
- B. Center of base shall be centered on form (or positioned as directed by engineer).
- C. Prior to pouring concrete, SPEED DOWEL sleeve shall be slipped over base.
- D. Pour concrete minimum 18" from SPEED DOWEL System and work concrete around the SPEED DOWEL System.
- E. Concrete forms shall be removed with bases still attached. Bases may be reused.
- F. Install slip dowels to the full depth of the embedded SPEED DOWEL Sleeve and proceed with next concrete pour.

3.02 FIELD QUALITY CONTROL

- A. Greasing of dowels is not required. Embedded SPEED DOWEL sleeve accommodates expansion and shrinkage movements that may occur.
- B. Bent or badly sheared slip dowels shall not be used. Saw cut dowels recommended.
- C. Concrete shall not be poured directly over the SPEED DOWEL System.
- D. Place edge forms plumb. Out of plumb forms may result in misaligned dowels.

END OF SECTION

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