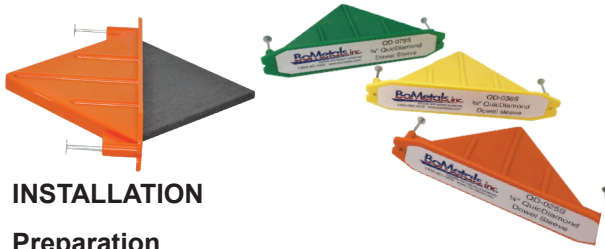


PRODUCT DATA SHEET
QD
QuicDiamond™ Plate Dowel



INSTALLATION

Preparation

During progress of work all QuicDiamonds shall be protected from damage and should be free of oil, dirt and concrete spatter.

Location & Placement of QuicDiamonds

1. Set up formwork.
2. Locate and mark with chalk line at specified location, usually at center of slab but at least 2 1/4" from top of slab.
3. Align QuicDiamond™ Sleeve at specified location.
4. Use preset nails to attach QuicDiamond™ Sleeve to formwork.



QUICDIAMOND™ SYSTEM INFORMATION

QD-025	1/4"	1/4" x 4-1/2" x 4-1/2"
QD-038	3/8"	3/8" x 4-1/2" x 4-1/2"
QD-075	3/4"	3/4" x 4-1/2" x 4-1/2"
Sleeve Material: ABS / Plate Material: A-36 Steel		

5. Install any reinforcement needed.
6. Place and finish concrete per ACI specification. Pour at least 18 inches from QuicDiamond™ System.
7. Consolidate the concrete around the QuicDiamond™ System, vibrate & finish concrete.
8. After concrete cures, remove formwork with base & bend nails away from plate.
9. For subsequent adjoining slabs repeat steps 1-5.



10. Place plate into sleeve.
11. Repeat steps 6-8.

DOWEL SIZE AND SPACING FOR CONSTRUCTION JOINTS

Slab Depth	Dowel Dimensions*			On-Center Dowel Spacing		
	Round	Square	QuicDiamond™**	Round	Square	QuicDiamond™
5" to 6" 130 - 150 mm	3/4" x 14" 19 x 360 mm	3/4" x 14" 19 x 360 mm	1/4" x 4-1/2" x 4-1/2" 6 x 110 x 110 mm	12" 300 mm	14" 360 mm	18" - 24" 460 - 610mm
7" to 9" 180 - 230 mm	1" x 16" 25 x 410 mm	1" x 16" 25 x 410 mm	3/8" x 4-1/2" x 4-1/2" 9 x 110 x 110 mm	12" 300 mm	14" 360 mm	18" - 24" 460 - 610mm
9" to 11" 230 - 280 mm	1-1/4" x 18" 32 x 460 mm	1-1/4" x 18" 32 x 460 mm	3/4" x 4-1/2" x 4-1/2" 19 x 110 x 110 mm	12" 300 mm	12" 300 mm	20" - 24" 510 - 610mm

Source Material: ACI 360R-10, *Design of Slabs-on-Ground*, Table 6.1; ACI 302.IR-04, *Guide for Concrete Floor and Slab Construction*, Table 3.2 PCA 4th Edition, Table 6.2

* Total dowel length includes allowance made for joint opening and minor errors in positioning dowels.

** Construction tolerances required make it impractical to use diamond-shaped load plates in saw-cut contraction joints. Note: Table values based on maximum opening of .2 in. (5 mm). Dowels must be carefully aligned and supported during concrete operations. Misaligned dowels may lead to cracking.

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Founded in 1989, BoMetals has become an industry leader in the design and manufacture of concrete and masonry accessories.