



Martin  
Concrete  
Construction

# LESSONS LEARNED

<b>COMPLETED BY:</b>	<b>DATE PREPARED:</b>
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<b>PROJECT NAME:</b>	<b>SUBJECT:</b>
Project Rebound	Ductilcrete

## SITUATION:

There is a new Ductilcrete Specification for dowel baskets. The dowel baskets were ordered for a conventional 6" slab. The baskets we ordered were too high for the screed due to the 3" layer of conventional concrete and the 3" of Ductilcrete concrete. We were able to get Ductilcrete to approve Martin to 'wet set' the baskets in lieu of ordering new baskets for a 1 million SF project.

## LESSON LEARNED AND/OR CORRECTIVE ACTION & PICTURES:

**12 DOWEL BASKETS AT SPEED BAYS**

1. ROUND SMOOTH BASKET
1.1. SAW CUT (DO NOT SHEAR) TO LENGTH FROM COLD-ROLLED SMOOTH STEEL ROD.
1.2. SUPPORT IN PRE-FABRICATED FULLY WELDED WIRE-WIRE FORM "DOWEL BASKETS".
1.3. FABRICATE BASKETS FROM 1/2" DIAMETER COLD DRAWN STEEL WIRE.
1.3.1. WELD GAUGE WIRES ACROSS THE BASKET SIDE FRAMES AT NOT MORE THAN 36" CENTERS TO STABILIZE THE ASSEMBLY DURING SHIPPING AND INSTALLATION.
1.3.2. THOROUGHLY SPRAY COAT DOWELS AND SUPPORTING BASKETS WITH BOND BREAKER NOT EARLIER THAN 48 HOURS PRIOR TO INSTALLATION.
2. PLATE BASKETS
2.1. REFER TO MANUFACTURERS RECOMMENDATION FOR PLATE DOWEL THICKNESS.
2.2. LOAD PLATE BASKET ASSEMBLIES SHALL BE DELIVERED TO THE JOBSITE THOROUGHLY COATED WITH A DE-BONDING AGENT NOT EXCEEDING .0002 INCH IN THICKNESS.
3. FABRICATE BASKETS TO POSITION TOPS OF DOWELS NOT LESS THAN 1/2" BELOW NOMINAL HEIGHT OF BASE (i.e. SUPPLIER CONCRETE) LAYER.
4. MARK ALL FUTURE SAW CUT CONTROL JOINT LINES ON SLIP SHEET USING STRING LINES AND FLUORESCENT SPRAY PAINT.
5. CENTER DOWEL BASKETS ON SPRAY PAINTED LINES AND SECURE TO BASE USING LARGE METAL STAPLES DRIVEN OVER BASKET RUNNERS.

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