

# Pocket Handbook-DUCTILCRETE®

Sales

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More Information - <https://ductilcrete.com>

## System Information

### CS100

- Dual layer, wet-on-wet system
- Topping slab must be a minimum 3", although there are tolerances for overall slab thickness
- Separate specification for CS100
- Saw cuts at column lines only

### HB100

- Minimum 3" topping slab over pre-poured working slab of no less than 3"
- Separate specification for HB100
- Saw cuts at column lines only

### CP100

- Paving system
- Saw cuts range from 10' to 18', maximum spacing depending on project location
- Separate specification for CP100

## Temperature Requirements

Air Temperature	Minimum concrete temperature as placed and maintained
	55°F (13°C)
	Minimum concrete temperature as mixed for indicated air temperature
Above 30°F	60° (16°C)
0 to 30°F (-18 to -1°C)	65°F (18°C)
Below 0°F (-18°C)	70°F (21°C)
	Maximum allowable gradual temperature drop in first 24 hours after end of protection

50°F (28°C)	
Air Temperature	Maximum placement temperature
	75°F (24°C)
	Maximum concrete temperature as mixed for indicated air temperature
Above 30°F	75°F (25°C)
0 to 30°F (-18 to -1°C)	80°F (27°C)
Below 0°F (-18°C)	85°F (30°C)

## Saw Cuts

- Should be a minimum of  $T / 3$  minus  $\frac{1}{4}$ " deep, maximum of 3" deep
  - T is the nominal slab thickness in inches
- Plunge cuts should be made in the last 18" at both ends of each saw cut
  - Immediately after initial sawing
  - Minimum depth of 5"

## Joint Maintenance

- Essential to maintain Ductilcrete five year warranty for joint spalling
  - Refer to product specs
  - Must be maintained in accordance with joint filler manufacturer’s instructions
  - Typically not the responsibility of Ductilcrete or the Licensee

## Pour Strip Information

- Typically poured full depth with fibers and RSC admixture
  - Project costing is always done with full depth as assumption
  - This choice is at Licensee discretion
- May be poured as dual coarse with fibers in top pour

## Plumbing Trenches / Other Infills

- Do not have to re-poured with Ductilcrete
  - Does not have to be placed by Ductilcrete Licensee if Ductilcrete isn’t used

## Warranty Information

- Properly installed Ductilcrete offers a five year warranty
  - Includes spalling at properly filled and maintained joints
  - Spalling is not warranted on improperly maintained or improperly filled joints
  - Cracking
  - Curling
  - Ff/FI
  - 90% of overall specified values

## Batching Doses

DC05 Fibers				RSC 50 /51 Additive	
Batch size per yd <sup>3</sup>	Ductilcrete DC05 Fiber (bags)	Pounds of fiber per yd <sup>3</sup>		Batch size per yd <sup>3</sup>	Ductilcrete RSC - 50/51 (ounces)
1	1	4.00	Balance only	1	21
2	2	4.00		2	42
3	3	4.00		3	63
3.5	4	4.57		3.5	74
4	4	4.00		4	84
4.5	5	4.44		4.5	95
5	5	4.00		5	105
5.5	6	4.36		5.5	116
6	6	4.00		6	126
6.5	7	4.31		6.5	137
7	7	4.00		7	147
7.5	8	4.27		7.5	158
8	8	4.00		8	168
8.5	9	4.24		8.5	179
9	9	4.00		9	189
9.5	10	4.21		9.5	200
10	10	4.00		10	210
10.5	11	4.19		10.5	221
11	11	4.00		11	231

## Heidebed (HB 100)

### Anchor Bolt Installation

- Rack leg anchor bolts should not be installed on any Heidebed® (HB100) slab system that is less than seven (7) days old
- For slabs placed between seven (7) and sixty (60) days, rack leg anchors and bolts should not exceed 2.5" in length
- After sixty (60) days, the rack leg anchors and bolts can be those normally employed by the rack supplier
- Please reference Technical Letter TL-1001 regarding anchor bolt installation in slabs with Heidebed® Technology for further details