



**CEL CORE<sup>®</sup> INCORPORATED  
QUALITY CONTROL  
FIELD CAST DENSITY LOG**

Date of Placement:	Project Name:
Project Number:	
Contractor:	Location:

Cast density shall be determined by taking samples obtained at the end of the pump hose at the point of placement. The samples are obtained by filling a [5] gallon pail with material flowing from the pump hose into the placement as outlined in ASTM C495.

**Net Weight Conversion Chart**  
(values shown exclude the weight of the pail)

Sample Weight (lbs)	Cast Density (lbs/ft <sup>3</sup> )	Sample Weight (lbs)	Cast Density (lbs/ft <sup>3</sup> )	Sample Weight (lbs)	Cast Density (lbs/ft <sup>3</sup> )	Sample Weight (lbs)	Cast Density (lbs/ft <sup>3</sup> )
23	32.9	26	37.1	29	41.4	32	45.7
23.5	33.6	26.5	37.9	29.5	42.1	32.5	46.4
24	34.3	27	38.6	30	42.9	33	47.1
24.5	35	27.5	39.3	30.5	43.6	33.5	47.9
25	35.7	28	40	31	44.3	34	48.6
25.5	36.4	28.5	40.7	31.5	45	34.5	49.3

Footnote: The shaded values indicate densities below or above those typically used in roof deck construction.

**Density Records**  
(S = Slurry Coat & T = Topping)

Time	S	Density	Time	S	Density	Time	S/T	Density	Time	S/T	Density
AM	T	(lbs/ft <sup>3</sup> )	AM	T	(lbs/ft <sup>3</sup> )	PM		(lbs/ft <sup>3</sup> )	PM		(lbs/ft <sup>3</sup> )
6:30			9:30			12:30			3:30		
7:00			10:00			1:00			4:00		
7:30			10:30			1:30			4:30		
8:00			11:00			2:00			5:00		
8:30			11:30			2:30			5:30		
9:00			12:00			3:00			6:00		

Weather Conditions: Sunny  Partly Cloudy  Overcast  Rain Showers  Rain

Other Remarks: