



**EUCLID CHEMICAL**

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**Customer:** Capitol Products  
**Submitted By:** John Morkovsky  
**Location:** Jarrell, TX  
**Request:** Masonry Testing, (Water Repellency)  
Eucon Blocktite

**TSR# 18-08-27-01**  
**Dates:** 9/6//2018

**RELATED DOCUMENTS:**

**Water Repellency Test Methods (NCMA TEK 19-7)**

**CMU – WR1** Standard Test Method for Water Droplet and Water Bottle Tests of Concrete Masonry Units

**CMU – WR2** Standard Test Method for Spray bar Test of Concrete Masonry Units

**PRODUCTS TESTED:** 1 sets of eight inch, hollow core normal weight block were submitted as follows:

**Sample Set #1 – Admixture, Eucon Blocktite @ 37.5 oz/c wt**

**Summary of Test Results:**

<b>Physical Properties</b>	<b>Results</b>
<b>Water Bead Test</b>	Comply
<b>Spray Bar Test</b>	Comply

**Capital Products**

37.5 oz/c wt, Eucon Blocktie

**Water Bead Test Report**

**NCMA CMU-WR1-09**

**Test Method:** Water Bead Test  
(per NCMA Method CMU-WR1-09)

**Unit Specification:** NCMA TEK 19-7

**Unit Description:** 8x8x16 inch Concrete Masonry Units

**Summary of Test Results**

<u>Physical Properties</u>	<u>Specified Values</u>	<u>Test Results</u>
Average Water Drops Remaining at 5 Minutes	min. 9	15
Average Water Drops Remaining at Conclusion of Testing	****	15

Unit ID	<u>Drops Remaining</u>				
	1 Minute	5 Minutes	15 Minutes	30 Minutes	60 Minutes
A	5	5	5	5	5
B	5	5	5	5	5
C	5	5	5	5	5
Total	15	15	15	15	15



Water Bead @ 1 Hour

**Note: These Units Comply With NCMA TEK 19-7 Water Bead Criteria**

**Spray Bar Test Report**  
**NCMA CMU-WR2-09**  
**Capital Products**

**Test Method:** Spray Bar Test  
(per NCMA Method CMU-WR2-09)  
**Unit Specification:** NCMA TEK 19-7  
**Unit Description:** 8x8x16 inch Concrete Masonry Units

**Summary of Test Results**

Physical Properties

	<u>Specified Values</u>	<u>Test Results</u>
Average Total Face Shell Area	****	90.9 in. <sup>2</sup>
Average Total Web Area	****	150.7 in. <sup>2</sup>
Average Dampness Inside Face Shell at Conclusion of Testing	20% max.	1.0%
Maximum Pinholes per Unit at Conclusion of Testing	5 max.	0 count
Average Dampness on Webs at Conclusion of Testing	****	0.0%
Average Water Absorbed During Testing	****	0.06 lb.

**Individual Unit Results** - Note: Measurements and weights below are obtained from cut specimens.

*Measured Dimensions*

Unit ID	Unit Length in.	Unit Height in.	Length Inside Face Shell		Total Inside Face Shell Surface Area in. <sup>2</sup>
			Left (L <sub>FS (left)</sub> ) in.	Right (L <sub>FS (right)</sub> ) in.	
A	15.63	7.60	5.97	6.00	91.0
B	15.69	7.56	6.00	5.97	90.5
C	15.63	7.60	6.00	6.00	91.2
Average	15.65	7.59	5.99	5.99	90.9

Unit ID	Total Inside Web Surface Area				
	Web 1 (L <sub>web1</sub> ) in.	Web 2 (L <sub>web2</sub> ) in.	Web 3 (L <sub>web3</sub> ) in.	Web 4 (L <sub>web4</sub> ) in.	Area in. <sup>2</sup>
A	5.03	5.00	5.03	5.03	152.7
B	5.03	5.00	5.03	5.00	151.7
C	5.00	5.03	5.03	5.00	152.5
Average	5.02	5.01	5.03	5.01	152.3

*Measured Weights, Absorbed Water, Dampness, and Pinhole Measurements at Conclusion of Spray Bar Testing (4 hours)*

Unit ID	Weight at Start of Test lb.	Weight at End of Test lb.	Water Absorbed in Test lb.	Dampness Inside Face Shell in. <sup>2</sup>	Dampness Inside Face Shell %	Pinholes Inside Face Shell #	Dampness Total Webs in. <sup>2</sup>	Dampness Total Webs %
A	30.04	30.10	0.06	0.0	0.0	0	0.0	0.0
B	30.04	30.10	0.06	0.0	0.0	0	0.0	0.0
C	29.86	29.92	0.06	1.8	2.0	0	0.0	0.0
Average	29.98	30.04	0.06	0.6	1.0	0	0.0	0.0



**Unit A @ 4 Hours**



**Unit B @ 4 Hours**



**Unit C @ 4 Hours**

**Note: These Units Comply With NCMA TEK 19-7 Spray Bar Criteria**