

### REPORT OF CONCRETE BLOCK TESTING

**PROJECT:**  
 PRODUCTION CHECK  
 MARSHALL CONCRETE PRODUCTS  
 HUTCHINSON, MINNESOTA

**REPORTED TO:**  
 MARSHALL CONCRETE PRODUCTS  
 2610 MARSHALL ST NE  
 MINNEAPOLIS, MINNESOTA 55418

**ATTN:** JOHN FISHER

**AET PROJECT NO:** 20-10780

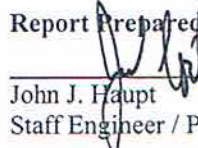
**DATE:** May 31, 2011

Product Type:	8" x 8" x 16"					
Producer:	Marshall Concrete Prod., Hutchinson, MN					
Date:	Manufactured: Unknown	Tested: 05/25/2011		<b>ASTM Spec C90</b>		
<b>Sample:</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>Avg</b>	<b>1 Unit</b>	<b>3 Unit Avg</b>
<b><u>Dimensions</u></b>						
Length, in:	15.57	15.53	15.55			
Width, in:	7.63	7.63	7.60			
Height, in:	7.62	7.50	7.59			
Face Shell, in:	1.32	1.31	1.33	1.32	1.25	min.
Web, in:	1.07	1.07	1.17	1.10	1.0	min.
Equivalent Web, in:	2.47	2.48	2.71	2.55	2.25	min.
Equivalent Thickness, in:	3.78	3.97	4.34	4.03		
<b><u>Physical Properties</u></b>						
Weight as Received, lbs:	36.8	36.0	39.6			
Moisture Content, %:	46.4	50.0	51.6	49.3		
Absorption, %:	7.9	7.5	8.2	7.8		
Absorption, lbs / cu ft:	10.8	9.7	10.5	10.3	15 Max	13 Max
Density, lbs / cu ft:	136.7	129.7	128.2	131.5		125 Min
Solid, %:	49.6	52.0	57.1	52.9		
<b><u>Strength</u></b>						
Total Load, lbs:	204,470	194,900	202,320			
Gross Area, sq in:	118	118	118			
Gross Strength, psi:	1,730	1,650	1,710			
Net Area, sq in:	63	63	63			
Net Strength, psi:	3,250	3,090	3,210	3,180	1,700 Min	1,900 Min

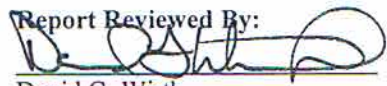
**Remarks:**

The samples meet ASTM:C90-09 specifications for concrete masonry units.

**Report Prepared By:**

  
 John J. Haupt  
 Staff Engineer / Project Manager

**Report Reviewed By:**

  
 David G. Wirth  
 Manager, Construction Services

