

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

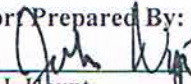
DATE: May 31, 2011

Product Type:	4" x 8" x 16"					
Producer:	Marshall Concrete Prod., Hutchinson, MN					
Date:	Manufactured: Unknown	Tested: 05/25/2011		ASTM Spec C90		
<b>Sample:</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>Avg</b>	<b>1 Unit</b>	<b>3 Unit Avg</b>
<u>Dimensions</u>						
Length, in:	15.56	15.53	15.54			
Width, in:	3.60	3.60	3.61			
Height, in:	7.44	7.43	7.54			
Face Shell, in:	1.02	1.04	1.03	1.03	0.75	min.
Web, in:	1.24	1.21	1.20	1.22	0.75	min.
Equivalent Web, in:	2.87	2.80	2.79	2.82	1.675	min.
Equivalent Thickness, in:	2.70	2.74	2.72	2.72		
<u>Physical Properties</u>						
Weight as Received, lbs:	24.3	24.5	24.7			
Moisture Content, %:	47.1	50.0	50.0	49.0		
Absorption, %:	7.2	7.6	7.6	7.5		
Absorption, lbs / cu ft:	9.4	9.9	9.8	9.7	15 Max	13 Max
Density, lbs / cu ft:	129.8	129.2	129.1	129.4		125 Min
Solid, %:	75.1	76.0	75.3	75.5		
<u>Strength</u>						
Total Load, lbs:	113,850	131,030	115,010			
Gross Area, sq in:	56	56	56			
Gross Strength, psi:	2,030	2,340	2,050			
Net Area, sq in:	42	42	42			
Net Strength, psi:	2,710	3,120	2,740	2,860	1,700 Min	1,900 Min

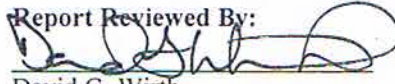
Remarks:

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

