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[www.skgeotechnical.com](http://www.skgeotechnical.com)

## Compressive Strength of Sandstone Cube ASTM D 2938

**Date:** February 2, 2021

**Project:** 20-3890L Laboratory Testing  
 Sandstone Properties  
 Harlowton Quarry

**To:**

MontanaFrontierSandstone@gmail.com  
 1300 Lockwood Rd, Building B  
 Billings, Montana 59101

Field Data:		Design Data:	
Set number:	HAR 6" Layer	Spec. slump, in.:	NA
Date cast:	NA	Spec. air, %:	NA
Time cast:	NA	Spec. strength:	NA
Measured slump, in.:	NA	Concrete by:	NA
Measured air content, %:	NA	Mix design:	NA
Concrete temp, ° F:	NA		
Air temp, ° F:	NA		
Unit weight, pcf:	NA		
Water added at site, gallons:	NA		
Volume of load, yd <sup>3</sup> :	NA		
Truck:	NA		
Ticket:	NA		
Drilling by:	Saw cut & delivered by client		
Location:	Harlowton 6" Layer		

Laboratory Data:					
Cube #	A	B	C	D	
Date received	01/29/21	01/29/21	01/29/21	01/29/21	
Date tested	02/02/21	02/02/21			
Cut Height, in	3.971	4.071			
Cut Cross-Section Area, in <sup>2</sup>	15.657	15.908			
L/D ratio	1.003	1.021			
L/D Strength Correction	0.872	0.876			
Maximum load, lbs	277,030	276,280			
Compressive strength, psi	<b>15,430</b>	<b>15,220</b>			
Caliper density, air dry pcf *	162.4	163.8			

**Remarks:** \* Caliper volume and density include air voids. Projects may specify a minimum specific gravity (voidless) and maximum absorption. Submersed specific gravity and absorption at nondestructive tests and are available on request. Lab photos available on request.  
 All cube material retained until notified.



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**To:**

MontanaFrontierSandstone@gmail.com  
 1300 Lockwood Rd, Building B  
 Billings, Montana 59101

**Field Data:**

Set number: HAR 10" Layer  
 Date cast: NA  
 Time cast: NA  
 Measured slump, in.: NA  
 Measured air content, %: NA  
 Concrete temp, ° F: NA  
 Air temp, ° F: NA  
 Unit weight, pcf: NA  
 Water added at site, gallons: NA  
 Volume of load, yd<sup>3</sup>: NA  
 Truck: NA  
 Ticket: NA  
 Drilling by: Saw cut & delivered by client  
 Location: Harlowton 10" Layer

**Design Data:**

Spec. slump, in.: NA  
 Spec. air, %: NA  
 Spec. strength: NA  
 Concrete by: NA  
 Mix design: NA

**Laboratory Data:**

Cube #	A	B	C	D	
Date received	01/29/21	01/29/21	01/29/21	01/29/21	
Date tested	02/02/21	02/02/21			
Cut Height, in	4.001	4.003			
Cut Cross-Section Area, in <sup>2</sup>	15.447	15.861			
L/D ratio	1.018	1.005			
L/D Strength Correction	0.876	0.872			
Maximum load, lbs	296,700	332,840			
Compressive strength, psi	<b>16,820</b>	<b>18,310</b>			
Caliper density, air dry pcf *	164.8	163.8			

**Remarks:** \* Caliper volume and density include air voids. Projects may specify a minimum specific gravity (voidless) and maximum absorption. Submersed specific gravity and absorption at nondestructive tests and are available on request. Lab photos available on request.  
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