



Report No. : HB-20-04244A

C-20-17379

Report Date : Jun. 10, 2020

## TEST REPORT

We have tested the submitted samples as required and the following results were obtained :

Test Item.	Test Method	Item NO	# Curing Way	Sample Size			Test Result		
				Length (cm)	Width (cm)	Height (cm)	Compressive Strength (kgf/cm <sup>2</sup> )	Average of Compressive Strength (kgf/cm <sup>2</sup> )	Standard deviation
Compressive Strength	ASTM C170/C170M-17 Modified	1	Dry Condition 73hr	2.980	3.205	2.876	1584	1598	34
		2		2.981	3.188	2.880	1549		
		3		2.924	3.223	2.878	1641		
		4		2.951	3.216	2.875	1612		
		5		2.966	3.191	2.877	1603		

Note: #Because the customer didn't provide rift of stone, it can't issue the report that has perpendicular and parallel to the bed of the compressive strength.

Test Item.	Test Method	Item NO.	#Curing Way	Sample Size			Test Result		
				Length (cm)	Width (cm)	Height (cm)	Flexural Strength (kgf/cm <sup>2</sup> )	Average of Flexural Strength (kgf/cm <sup>2</sup> )	Standard deviation
Flexural Strength	ASTM C880/C880M-18 Modified	1	Dry Condition	38.005	10.004	2.913	278	270	11
		2		38.010	10.066	2.897	258		
		3		38.020	10.008	2.949	259		
		4		38.025	10.004	2.905	282		
		5		38.005	10.007	2.910	271		

Note: #Because the customer didn't provide rift of stone, it can't issue the report that has perpendicular and parallel to the bed of the flexural strength.



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Test Item.	Test Method	Item NO.	#Curing Way	Sample Size			Test Result		
				Length (cm)	Width (cm)	Height (cm)	Modulus of Rupture (kgf/cm <sup>2</sup> )	Average of Modulus of Rupture (kgf/cm <sup>2</sup> )	Standard deviation
Modulus of Rupture	ASTM C99/C99M-18 Modified	1	Dry Condition	19.966	10.032	2.897	359	346	14
		2		19.912	10.058	2.888	346		
		3		19.985	9.938	2.875	352		
		4		19.974	9.992	2.891	322		
		5		19.966	10.176	2.876	353		

Note: Because the customer didn't provide rift of stone, it can't issue the report that has perpendicular and parallel to the bed of the modulus of rupture.

Test Item.	Test Method	Item NO.	Sample Size			Weight of the dried specimen (g)	Weight of the saturated surface dry (g)	Weight of the soaked specimen in water (g)	Test Result				
			Length (cm)	Width (cm)	Thickness (cm)				Absorption (%)	Max. (%)	Min. (%)	Avg. (%)	Standard deviation
Water Adsorption	ASTM C97/C97M-18 Modified	1	2.892	2.981	2.952	60.17	60.20	35.11	0.05	0.05	0.03	0.04	0.01
		2	2.893	2.976	2.984	60.56	60.58	35.40	0.03				
		3	2.893	2.974	2.978	60.45	60.47	35.37	0.03				
		4	2.890	2.962	2.983	60.59	60.61	35.61	0.03				
		5	2.892	2.994	2.977	60.43	60.46	35.45	0.05				

Test Item.	Test Method	Item NO.	Sample Size			Weight of the dried specimen (g)	Weight of the saturated surface dry (g)	Weight of the soaked specimen in water (g)	Test Result				
			Length (cm)	Width (cm)	Thickness (cm)				Bulk Specific Gravity	Max.	Min.	Avg.	Standard deviation
Bulk Specific Gravity	ASTM C97/C97M-18 Modified	1	2.892	2.981	2.952	60.17	60.20	35.11	2.40	2.42	2.40	2.41	0.01
		2	2.893	2.976	2.984	60.56	60.58	35.40	2.41				
		3	2.893	2.974	2.978	60.45	60.47	35.37	2.41				
		4	2.890	2.962	2.983	60.59	60.61	35.61	2.42				
		5	2.892	2.994	2.977	60.43	60.46	35.45	2.42				



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Test Item.	Test Method	Item NO.	Length (cm)	Width (cm)	Height (cm)	Before the test weight (g)	Weight after test (g)	Test Result	
								Abrasion Resistance	Abrasion Resistance
Abrasion Resistance	ASTM C241/C241M -15 Modified	1	4.950	5.001	2.530	148.23	147.81	66	67
		2	4.962	4.984	2.528	147.71	147.27	64	
		3	4.979	4.998	2.522	147.77	147.37	70	

- Note: 1.All of the Sampling 、cutting 、drilling 、grind are handled by subcontractor  
 2.The laboratory uses 2A # 60 brown alundum abrasive.  
 3. The environment condition for Abrasion Resistance test: temperature is at 27.8°C with related humidity of 59%.  
 4. The test sample(s)size and quantity is/are not included in the TAF accredited scope, the TAF accredited report cannot be issued.  
 5. This Test Report is an additional original report of HB-20-04244 C-20-17379.Issued date :Jun. 10, 2020.  
 6. Test location : 55, Wu Chyuan Road, ( New Taipei Industrial Park ) Wu Ku District, New Taipei City, Taiwan.