CSG Sand Lab Dry Screened Test: (a) Grading

Supplier : Cardigan Sand & Gravel Co. Ltd. Cnwc-y-Saeson Production Plant Penparc, Cardigan, Ceredigion SA43 1RB Material Description: 0/4 Brown Lime Mortar Sand for General Building works using Natural Hydraulic Lime NHLS (BLM Brown)

0/4 Plastering and Rendering Mortar Sand MP Cat 1

Material Tested: Fines Content: BSI Published Document: European Standard:

Material Source: TGG ESG NHLS 0/4

Aggregate Type: Glacial Sampling Point: Cnwc-y-Saeson Age: Pleistocene

Category 1

PD 6682-3 : 2003 Tb1 B1 BS EN 13139 : 2013(E)

Sampled by: DGK

For your information

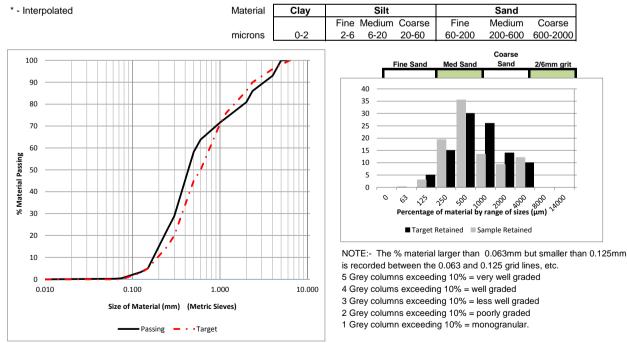
Cardigan Sand & Gravel Co. quarries a deposit that was laid down by an ancient lake fed by rivers flowing off the tip of the Teifi glacier. Our sands and aggregates are the result of disintegration of rock during transportation by the glacier. Our products, therefore, contain negligible amounts of shell and salt.

Our extracted materials pass through a rigourous system of scrubbers, screens, over-spill weirs, cyclones (prewash and dewatering) and classifiers. This allows us to carefully select particle sizes for optimum performance and also removes organic materials, clay, silt and mineral salts from the product.

NHLS is the name we give to our Sand for General Building using Natural Hydraulic Lime.

The maximum particle size should be approximately one third of the height of the smallest joint. Depending on the size of the joint, sand from 6.3mm down to 0.063mm can be used with the proportion passing 250 microns comprising about 15% and no more than 3% passing the 125 micron sieve, and 0% passing the 63 micron sieve.

Adapted from St Astier Natural Hydraulic Lime "Practical Guide to choosing Sands". E. & O.E.



This information is a guide only and does not constitute a specification. There are a vast number of sands differing in grading and qualities. To be sure that a well graded sand is being used it is necessary that at least four grades form a substantial part of over 10% of the proposed sand. This sand has 4 grey columns in the size range above 10% indiciating a well graded sand.

Ref: Dry Screening Test Result - 0-4 BROWN BLM NHLS TGG

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The results of the sieve analysis are as shown on those of the following sieves which have the retained weight recorded against them

Sieve Size	Weight	%	%		
	Retained			Target	Tolerance
(mm)	(g)	Retained	Passing	Grading	
14.000		0.0	100.0	100.0	
10.000	0.0	0.0	100.0	100.0	
8.000		0.0	100.0	100.0	100/100
6.300	0.0	0.0	100.0	100.0	98/100
5.000		0.0	100.0	98.0	
4.000	11.6	7.0	93.0	96.0	89/99
3.350 *	0.0	0.0	93.0	92.0	
2.360	11.6	7.0	86.0	90.0	
2.000	8.5	5.1	80.9	86.0	
1.180	11.8	7.1	73.8	76.0	
1.000	3.6	2.2	71.6	71.0	±20 45/85
0.600	12.9	7.8	63.8	50.0	
0.500	9.4	5.7	58.2	45.0	MP 30/70
0.425					
0.300	48.6	29.3	28.9	20.0	
0.250	10.3	6.2	22.7	15.0	±20 10/50
0.212	12.6	7.6	15.1		
0.150	16.7	10.1	5.0	5.0	
0.125	2.8	1.7	3.3	3.0	0/3
0.075	4.7	2.8	0.5	0.0	
0.063	0.4	0.2	0.2	0.0	0/3
0.000	0.4	0.2	0.0	0.0	
Total	165.9	100.0			