

Port Talbot - December 2022

Combinations of Regen GGBS supplied from Hanson Cement in combination with the CEM I Portland Cements and CEM II Portland Limestone Cements (PLC) listed below conform with the requirements of BS 8500-2:2015 over the indicated range of proportions. The compressive strength results are for tests carried out in accordance with BS EN 197-1 with 50% Regen GGBS in combination with the indicated CEM I Portland Cement and 20% Regen GGBS in combination with the indicated CEM II Portland Limestone Cements (PLC)

Portland Cement Source	Compressive Strength N/mm ²		Regen GGBS Percentage Range					
			42.5L		32.5L		22.5	
	7 day	28 day	Min	Max	Min	Max	Min	Max
CAULDON 52.5N	33.9	56.4	6	71	67	80	80	80
ABERTHAW	32.2	53.4	21	69	55	80	77	80
METAPORQUERA PLC	40.6	58.2	1	30	n/a	n/a	n/a	n/a
ABERTHAW PLC	41.4	59.6	1	30	n/a	n/a	n/a	n/a
KETTON	34.2	56.9	6	66	51	79	74	80
PADESWOOD	32.5	52.8	6	65	49	80	74	80
TUNSTEAD	28.7	53.4	23	67	54	80	75	80
RIBBLESDALE	36.0	58.4	34	70	57	80	78	80
RUGBY	32.3	55.3	6	67	57	80	74	80
LEMONA	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
DUNBAR	21.6	49.5	35	50	47	80	77	80
CHATHAM LAGERDORF	31.4	50.8	6	73	64	80	78	80
PLATIN	26.7	49.4	6	69	49	80	77	80
COOKSTOWN	32.1	54.7	6	62	49	78	71	80
ALHANDRA 52.5R	31.6	54.6	35	66	55	80	75	80
HOPE	31.2	54.8	6	68	56	80	75	80
LIMERICK	29.1	53.0	6	64	52	80	73	80
MONJOS	30.9	53.9	6	72	57	80	78	80
METAPORQUERA	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
ST. EGREVE	18.8	47.5	6	43	41	61	61	80
ALCANAR	28.2	53.3	29	69	57	80	78	80
LAGAN	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
OUTAO	32.5	55.1	6	71	59	80	78	80
KETTON PLC	42.7	59.4	1	30	n/a	n/a	n/a	n/a
PADESWOOD PLC	42.4	59.4	1	30	n/a	n/a	n/a	n/a
CEMENTOS MOLINS	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
HOPE PLC	41.3	57.0	1	30	n/a	n/a	n/a	n/a
OGGAZ	31.8	56.2	33	69	59	80	76	80

Combination Designation (Table 1 BS 8500-2)	Percentage Regen GGBS	
	Not Less Than	Not More Than
CIIA (With CEM I)	6	20
CIIA (With PLC)	Depends on limestone content in cement	
CIIB-M	Depends on limestone content in cement	
CIIB-S	21	35
CIIIA	36	65
CIIBB	66	80

The Regen GGBS contained no additional materials others than those permitted according to BS EN 15167-1.

Hanson Cement has used all reasonable care to ensure the information herein contained is accurate but to the extent permitted in law, no liability can be accepted by Hanson Cement for any loss, damage, cost or expense arising from any inaccuracy, whether due to negligence or otherwise.

Signed:



Dr Nina Cardinal, Dipl.Ing., CEng, MiMMM National Technical Manager



1333-CPR-00134