

**Port Talbot - December 2023**

Combinations of Regen GGBS supplied from Heidelberg Materials UK in combination with the CEM I Portland Cements and CEM II Portland Limestone Cements (PLC) listed below conform with the requirements of BS 8500-2:2023 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 cement. The combination of cement sources in bold text have been evaluated for conformity for less than six months.

In order to establish the designation of the combination as per Table 1 of BS 8500-2:2023, the user requires to know the limestone content of the cement. For cements supplied by Heidelberg Materials UK, this is shown in brackets in the table below. For cements of other sources the user should refer to the supplier for this information.

Composite samples for Heidelberg Materials UK cements and GGBS are obtained by blending not less than 8 spot samples of similar mass, taken at regular intervals throughout the relevant period. For information on composite samples of other cement sources, the user should refer to the supplier.

Cement Source		Compressive Strength N/mm <sup>2</sup>		Regen GGBS Percentage Range					
				42.5L		32.5L		22.5	
Company	Source	7 day	28 day	Min	Max	Min	Max	Min	Max
CEMEX (LEITH)	ALCANAR	28.4	53.8	24	63	53	79	72	90
BREEDON	HOPE PLC	31.8	53.7	6	63	47	79	72	89
TARMAC	ABERTHAW	26.3	47.8	6	70	46	82	76	90
DRAGON ALFA	METAPORQUERA PLC	30.6	52.9	6	64	55	77	71	86
TARMAC	ABERTHAW PLC	30.3	49.3	6	57	23	72	66	83
HEIDELBERG MATERIALS	KETTON (3-5%)	32.4	50.9	6	64	51	79	72	89
LAFARGE	CAULDON 52.5N	27.6	53.6	6	68	55	82	78	90
HEIDELBERG MATERIALS	PADESWOOD (3-5%)	33.3	51.9	6	70	50	82	76	90
TARMAC	TUNSTEAD	27.5	52.8	22	67	53	80	74	89
HEIDELBERG MATERIALS	RIBBLESDALE (3-5%)	30.5	50.6	25	60	50	78	69	90
CEMEX	RUGBY	30.3	52.2	6	64	53	78	72	89
SOUTHERN-PREMIER	LEMONA	29.8	52.0	6	66	55	81	75	90
TARMAC	DUNBAR	22.9	52.0	36	49	48	84	78	90
LAFARGE	CHATHAM LAGERDORF	33.8	53.9	6	74	66	84	79	90
SOUTHERN-PREMIER	PLATIN	27.4	51.6	6	70	48	83	78	90
LAFARGE	COOKSTOWN	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
CIMPOR	ALHANDRA 52.5R	31.4	55.4	35	65	54	82	74	90
BREEDON	HOPE	28.3	53.1	6	63	52	79	72	90
SOUTHERN-PREMIER	LIMERICK	29.4	53.9	6	63	51	80	72	90
DRAGON ALFA	MONJOS	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
DRAGON ALFA	METAPORQUERA	29.9	52.7	6	70	55	81	76	89
VICAT	ST. EGREVE	17.1	39.9	6	42	38	58	58	90
TILLCOUNTRY	LAGAN	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
SECIL	OUTAO	30.7	52.8	6	72	61	83	78	90
HEIDELBERG MATERIALS	KETTON PLC (8-12%)	32.6	54.9	6	61	53	73	68	83
HEIDELBERG MATERIALS	PADESWOOD PLC (8-12%)	32.9	54.8	6	63	53	76	70	85
PREMIER CEMENT	CEMENTOS MOLINS	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
ELLESMERE	OGGAZ	32.9	55.5	37	70	61	84	78	90

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

Heidelberg Materials UK 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 Heidelberg Materials UK for any loss, damage, cost or expense arising from any inaccuracy, whether due to negligence or otherwise.

Signed:



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