

**Purfleet - August 2024**

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
TARMAC	ABERTHAW	27.4	47.3	6	55	41	74	67	85
OGGAZ	CHATHAM	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
CEMEX	RUGBY PLC	29.0	51.9	6	61	27	73	67	82
CEMEX	TILBURY PLC	28.4	49.8	6	58	27	73	67	82
MEDCEM	SILIFKE	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
CEMEX	NEWPORT-PLATIN	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
HEIDELBERG MATERIALS	KETTON (3-5%)	29.9	50.2	6	57	45	71	65	82
SECIL	MACEIRA-LIZ	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
LAFARGE	CAULDON 52.5N	26.0	46.9	6	55	42	71	64	83
HEIDELBERG MATERIALS	PADESWOOD (3-5%)	31.0	51.3	6	63	41	78	72	87
TARMAC	TUNSTEAD	24.5	48.2	7	57	47	71	64	83
HEIDELBERG MATERIALS	RIBBLESDALE (3-5%)	30.8	50.4	6	58	43	76	70	85
CEMEX	RUGBY	28.6	49.1	6	59	45	75	69	85
SOUTHERN-PREMIER	LEMONA	71.7	51.2	7	57	46	72	65	83
LAFARGE	CHATHAM LAGERDORF	32.4	57.1	7	62	53	75	69	85
SOUTHERN-PREMIER	PLATIN	29.7	51.0	n/a	n/a	n/a	n/a	n/a	n/a
CEMEX	TILBURY	27.4	49.0	6	56	43	75	69	86
CIMPOR	ALHANDRA 52.5R	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
MANNOK	MANNOK	31.8	55.4	6	61	51	75	68	86
BREEDON	HOPE	29.0	52.5	6	59	48	75	68	86
SOUTHERN-PREMIER	LIMERICK	30.3	51.5	6	59	25	73	67	83
DRAGON ALFA	METAPORQUERA	29.7	51.9	6	65	47	78	72	86
HEIDELBERG MATERIALS	KETTON PLC (9-13%)	30.3	53.1	6	58	46	71	65	81
HEIDELBERG MATERIALS	PADESWOOD PLC (8-12%)	34.8	56.3	6	70	49	80	75	87
TUDELA	ABONO	29.6	54.3	6	62	53	79	71	80
CEMMINERAL	GHENT	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
BREEDON	HOPE PLC	30.0	51.8	9	58	46	75	68	86
CEMENTOS PORTLAND VALDERRIVAS	SEVILLE	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a

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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