

Port Talbot - June 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/mm2		Regen GGBS Percentage Range					
				42.5L		32.5L		22.5	
Company	Source	7 day	28 day	Min	Max	Min	Max	Min	Max
TARMAC	TUNSTEAD	24.5	52.0	15	70	53	81	76	89
HEIDELBERG MATERIALS	PADESWOOD PLC (8-12%)	32.0	53.4	6	63	54	76	70	86
TARMAC	ABERTHAW	26.2	47.9	6	67	43	81	75	89
DRAGON ALFA	METAPORQUERA PLC	30.6	51.8	6	68	56	79	74	87
TARMAC	ABERTHAW PLC	30.2	48.5	6	56	40	73	65	85
CEMEX	RUGBY PLC	30.1	54.8	6	66	54	78	73	87
CEMEX	TILBURY PLC	29.5	52.3	6	60	41	76	70	86
CEMEX	NEWPORT-PLATIN	27.3	48.9	6	64	47	79	73	90
HEIDELBERG MATERIALS	KETTON (3-5%)	32.1	50.3	6	63	50	78	72	88
LAFARGE	CAULDON 52.5N	28.8	48.8	6	66	49	82	77	89
HEIDELBERG MATERIALS	PADESWOOD (3-5%)	32.3	52.1	6	69	49	82	76	80
HEIDELBERG MATERIALS	RIBBLESDALE (3-5%)	30.7	51.4	6	58	47	74	67	87
CEMEX	RUGBY	29.0	48.6	6	63	50	78	71	88
SOUTHERN-PREMIER	LEMONA	27.3	49.2	18	66	52	81	75	80
TARMAC	DUNBAR	22.2	50.0	37	50	50	80	80	80
LAFARGE	CHATHAM LAGERDORF	31.3	54.8	23	71	61	80	77	80
SOUTHERN-PREMIER	PLATIN	27.2	49.7	6	70	47	83	77	80
CEMEX	TILBURY	29.5	49.9	6	59	44	76	69	86
LAFARGE	COOKSTOWN	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
CIMPOR	ALHANDRA 52.5R	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
BREEDON	HOPE	29.5	52.0	6	62	51	78	71	90
SOUTHERN-PREMIER	LIMERICK	26.7	54.4	6	61	52	75	68	87
DRAGON ALFA	METAPORQUERA	30.5	51.7	6	70	54	80	76	89
VICAT	ST. EGREVE	17.5	44.0	6	36	6	58	49	80
CEMEX (LEITH)	ALCANAR	24.1	49.8	22	62	52	79	71	80
TILICOUNTRY	LAGAN	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
HEIDELBERG MATERIALS	KETTON PLC (9-13%)	31.6	52.6	6	60	51	72	66	82
PREMIER CEMENT	CEMENTOS MOLINS	No	Sample	n/a	n/a	n/a	n/a	n/a	n/a
BREEDON	HOPE PLC	29.7	50.7	6	62	50	77	71	88
ELLESMERE	OGGAZ	27.1	52.3	39	71	63	83	78	80

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:



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