



**Certificate of  
CONFORMITY SUMMARY**

**Scunthorpe**

**Sample Period**

**June 2019**

**Summary of All Cements**

1. Combinations of GGBS supplied from LKAB Minerals in combination with the CEM I Portland cements listed below conform with the requirements of BS 8500-2:2015 over the indicated range of proportions.

The compressive strength results are for tests following the procedure given in EN 197-1 with 50% GGBS in combination with the indicated CEM I Portland cement.

Portland Cement Source	Compressive Strength N/mm <sup>2</sup>		GGBS Percentage Range					
			52.5 L		42.5 L		32.5 L	
	7 day	28 day	Min	Max	Min	Max	Min	Max
Platin 52.5N	30.3	53.7	6	30	7	60	48	76
Limerick 52.5N	29.4	52.4	6	33	6	59	49	74
Aalborg White 52.5R	35.1	50.3	6	29	6	56	45	72
Titan 52.5N	27.2	54.1	6	34	7	57	51	76
Tunstead 52.5N	27.8	53.6	6	34	6	63	50	79
Monjos 52.5R	30.2	50.7	6	25	6	60	44	78
Lemona Bilboa 52.5R	29.5	52.6	6	33	21	63	46	80
South Ferriby 52.5N	20.9	48.5	6	24	6	52	40	75
Padeswood 52.5N	31.7	49.5	6	19	6	56	42	73
Ribblesdale 52.5N	31.6	51.1	6	14	6	59	42	76
Ketton 52.5N	30.7	49.9	6	22	6	55	41	73
Rugby 52.5N	31.0	53.3	6	26	6	57	45	74
Dunbar 52.5N	24.0	52.5	6	27	6	49	46	78
Cauldon 52.5N	31.2	55.0	6	31	6	62	50	77
Lagan 52.5R	32.2	52.5	6	31	6	62	49	78
Hope 52.5N	32.8	52.9	6	34	6	63	51	78
Cookstown 52.5N	27.5	50.7	6	28	6	57	45	74
Cimpor 52.5R	32.2	54.3	6	38	6	61	51	77
Secil 52.5R	31.2	52.1	6	35	6	59	49	76
Aalborg Grey 52.5N	32.5	53.5	6	36	6	60	49	76

These combinations count fully towards the cement content in concrete to BS 8500.

2. Combination Designation ( Table 1 BS 8500-2:2015 )

	Percentage GGBS	
	Not Less Than	Not More Than
<b>CIIA-S</b>	6	20
<b>CIIB-S</b>	21	35
<b>CIIIA</b>	36	65
<b>CIIBB</b>	66	80

The GGBS contained no additional materials other than those permitted. The above results and other tests demonstrate the conformity of the material sold during the month to the requirements of EN 15167-1:2006

Signed:   
L Bontoft -Technical Manager GGBS