
















































































		Code Number	101 4980	102 4981	103 4982	104 4983	105 4984	106 5005	107 5006	108 5028	111 4999	112 5000									
		Grade	40/20	40/20	40/20	40/20	40/20	40/20	40/20	40/20	60/20 SCC	60/20 SCC									
		PC	100% PC	60% PC	75% PC	75% PC	75% PC	90% PC	90% PC	90% PC	60% PC	60% PC									
		SCM		40% GGBS	25% Pozz	25% Pozz	25% Pozz	10% Pozz	10% Pozz	10% Pozz	40% GGBS	25% Pozz									
		MS									5% MS	5% MS									
		ADD			Raw	Sieved	Ground	Raw	Sieved	Ground		Ground									
Components	Date	10/02/22	10/02/22	10/02/22	14/02/22	14/02/22	28/02/22	28/02/22	28/02/22	12/03/22	26/02/22	26/02/22									
Mix contents		400	400	400	400	400	400	400	400	400	440	440									
CEM I	kg	400	240	300	300	300	360	360	360	360	250	313									
GGBS	kg	-	160	-	-	-	-	-	-	-	168	-									
Silica Fume	kg	-	-	-	-	-	-	-	-	-	22	22									
Pozzolana	kg	-	0	100	100	100	40	40	40	40	-	105									
20mm	kg	650	650	650	650	650	650	650	650	650	380	380									
10mm	kg	380	380	380	380	380	380	380	380	380	420	420									
05mm	kg	530	500	500	500	500	500	500	500	500	610	590									
Dune	kg	340	320	320	320	320	320	320	320	320	440	440									
Free Water	kg	152	152	152	152	152	152	152	152	152	145	145									
MasterPozzolith 10	kg	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00									
MasterGlenium 120AE	kg	6.33		7.00		8.50		10.83		7.17		8.50		8.50	-	-					
Δ 120AE	kg	N/A		0.67		2.17		6.5		4.5		0.84		2.17	2.17	-	-				
MasterGlenium 502AD	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.33		10.50			
Δ 502AD	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A		4.17			
Fresh Concrete																					
A/Cm	ratio	4.75	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.20	4.16									
Free W/Cm	ratio	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.330	0.330									
Plastic Density (kg/m³)	30 min	2470	2456	2445	2429	2426	2427	2421	2421	2437	2457	2420									
Air content (%)	30 min	1.80%	1.60%	2.00%	2.10%	2.30%	2.90%	3.00%	3.00%	1.90%	1.20%	1.90%									
Bleeding (%)	30 min	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil									
Setting Time	hrs	10.0	16.5	21.0	72.0	48.0	17.5	11.1	11.1	18.5	-	-									
	Initial	220	230	220	210	220	230	230	230	230	720	700									
	30 min	200	220	130	170	200	220	215	220	220	730	680									
Slump or Flow (mm)	60 min	180	210	110	140	180	210	200	200	210	720	650									
	90 min	160	200	90	110	140	200	175	200	200	720	640									
	120 min	140	180	80	90	120	170	150	180	180	710	600									
Hardened concrete																					
Compressive Strength 100mm Cubes (N/mm²)	1 day	24.5	10.0	3.5	0.0	0.0	17.5	11.0	10.0	10.0	18.5	18.5									
	3 days	51.5	46.0	46.0	12.5	31.5	48.0	47.0	48.0	48.0	39.5	41.5									
	7 days	63.5	55.0	52.5	34.5	47.0	46.5	44.0	54.0	64.0	64.0	62.5									
	28 days	74.5		67.0		64.5		57.5		62.5		61.5		64.5	79.5		71.5				
	56 days	80.5		74.0		70.0		50.0		62.0		68.0		69.5		73.0	89.0		78.5		
	90 days	84.0		80.0		74.5		56.0		65.0		65.0		71.0		74.0		77.5	93.5		83.0
RCP (coulombs)	28 days	3 935		1 903		3 138		1 740		3 908		6 096		5 306		3 966		720		903	
	56 days	3 428		1 325		2 200		1 536		3 560		3 757		2 460		1 764		415		569	
	90 days	2 072		849		1 265		962		1 829		3 033		2 114		560		244		293	
Water Absorption (%)	28 days	2.1		1.8		1.9		1.7		1.9		1.8		1.9		1.7		1.1		1.3	
	56 days	1.6		1.3		1.5		1.4		1.5		1.6		1.5		1.3		0.8		0.9	
	90 days	1.4		1.1		1.3		1.2		1.3		1.4		1.3		1.1		0.6		0.8	
Notes		Control									Control										