

What Specifications cover Portland-Limestone cements?

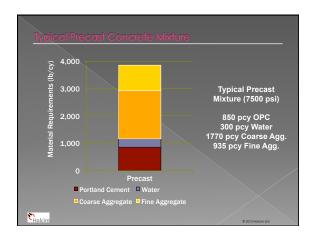
• In 2011, ASTM developed a provision for having a portland cement that contained 5% to 15% limestone which would adhere to ASTM C595 [Standard Specification for Blended Hydraulic Cements]. AASHTO recognition of PLC was also aligned with ASTM in the August 2012 print in AASHTO M240.

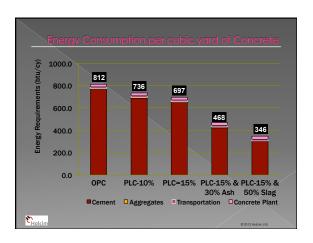
Currently the most commonly used cement in Europe
 Decades of use
 Up to 20 percent limestone allowed in EN197-1 CEM II/A and 35 percent in CEM II/B

 Allowed in Canada since 2008
 Up to 15 percent limestone

 ASTM C595 and AASHTO M 240 adopted Portland Limestone Cement classification 2012

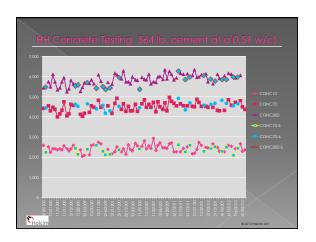
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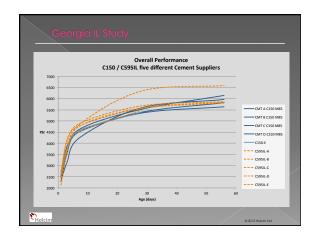












Lab Data Summary								
	Cement Company "A"							
	1	2	3	4	5	6	7	8
Mix Date	08/13/12	08/13/12	08/13/12	08/13/12	08/13/12	08/13/12	08/13/12	08/13/12
mix Date	00110112	50(13/12	00.10.12	00110112	00/10/12	00.10.12	00/10/12	00.00.2
Mix Code		C595IL						
MIX Code	C150 M85	M240	C150 M85	C595IL M240	C150 M85	C595IL M240		C595IL M240
			Fash	Fash	Cash	Cash	GGBFS	GGBFS
Cement	611	611	458	458	458	458	367	367
GGBFS							244	244
Boral Bowen F Ash			153	153				
Miller C Ash					153	153		
Total Cementitious	611	611	611	611	611	611	611	611
Aggregate Hanson Tyrone Coarse	1851	1851	1851	1851	1851	1851	1851	1851
Brown Brothers Sand	1098	1098	1176	1176	1112	1112	1118	1118
Design Air (%)	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Design Water (lbs)	306	306	290	290	290	290	290	290
Total wt	3866	3866	3928	3928	3864	3864	3870	3870
	0.501	0.501	0.475	0.475	0.475	0.475	0.475	0.475
Admixture								
	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Holcim uclid AEA 92S (ozlyard)	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50

