





Fly ash according ETA-05/0095 and EN 450-1+A1 for use as type II addition in concrete, mortars and grout				
Producer: Vliegasunie B.V. P.O.Box 265 4100 AG Culemborg tel: +31345 - 509988 fax: +31345 - 509980 www.vliegasunie.nl		Production plant Essent Energie Productie B.V. Amercentrale Amerweg 4931 NC Geertruidenberg		
		 08 0956-CPD-1302	 	
Relevant clause in EN 450-1	Characteristics	Requirements	Category	
5.2.2	Loss on Ignition	$\geq 2\%$ and $\leq 7\%$	Category B	
5.2.3	Chloride (Cl)	$\leq 0.1\%$		
5.2.4	Sulphuric anhydride (SO ₃)	$\leq 3\%$		
5.2.5	Free CaO	$\leq 1.0\%$		
5.2.6	Reactive CaO (as total CaO)	$\leq 10\%$		
5.2.7	ReactiveSiO ₂	$\geq 25\%$		
5.2.8	Sum of the content of SiO ₂ , Al ₂ O ₃ and Fe ₂ O ₃	$\geq 70\%$		
5.2.9	Total content of alkalis (Na ₂ O-eq)	$\leq 4.5\%$		
5.2.10	MgO	$\leq 4\%$		
5.2.11	Total P ₂ O ₅ Soluble phosphate	$\leq 5\%$ ≤ 100 mg/kg		
5.3.1	Fineness > 45 micron	< 40 % and variation ± 10 percentage points		Category N
5.3.2	Activity index	After 28 days: $\geq 75\%$ After 90 days: $\geq 85\%$		
5.3.3	Soundness	≤ 10 mm		
5.3.4	Particle density	2200 kg /m ³		
5.3.5	Initial setting time, difference between cement paste and cement/fly ash paste	Twice as long as the initial setting time of a 100 % (by mass) test cement paste		
5.4.2	Dangerous substances	according Dutch regulations (NL)		
EG declaration of conformity				
We declare, in accordance with article 14 of the Construction Products Directive (89/106/EEC), that the product according to this Product specification delivered of the location Essent Energie Productie B.V., Amercentrale te Geertruidenberg conforms to CUAP (ETA request No 03.01/34) and EN 450-1+A1 with conformity established according to EN 450-2 as given in Annex ZA van of EN 450-1+A1				
The FPC system is controlled by the approved body BMC and certificate of conformity number: 0956-CPD-1302 is January 1, 2008 issued				
Culemborg, February 17, 2010		 A.Korthout, director		