EPFL-ENAC MATERIALS AND STRUCTURES COURSE Section CE - Master semesters 1 and 3

EXERCISE 10-C ED UHPFRC SPECIFICATION (Properties)

Case	Type of structure or element	Exposure class	Mechanical performances	Protective function/constructive details	Workability	Special requirements	Characterization tests
3	Ribbed slab, city fire station						
	40 mm reinforcing layer in reinforced UHPFRC (with rebar)						
	cast in place on existing slab, hydrojetting of 10 mm thickness.						
	Total volume of UHPFRC to be produced in a concrete plant 15 km away: 40 m ³						
4	Protective plates for overpass piers on a highway						
	Swiss Alps						
	Prefabricated UHPFRC						
	Thickness 40 mm, height 3 m, width 2 m						