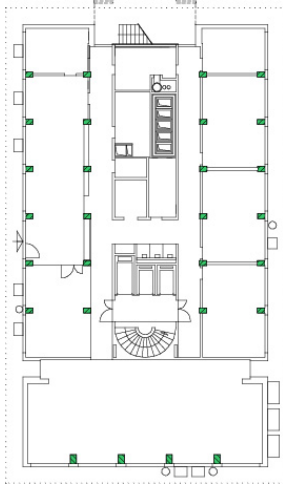


Type 12

Category: Columns

Cast-in-place columns

Location



Cast-in-place columns



Color and finishing



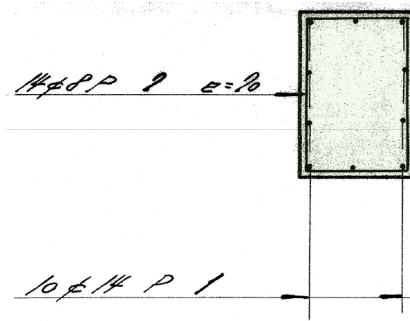
Type 12

Category: Columns

Cast-in-place columns

East and west near-facade columns, cross-section

1:20



Type 12

Category: Columns

Cast-in-place columns

Description				Condition and durability	
Exposition	Inside, not exposed			Condition assessment	100% good
Color	Shade of grey, closest RAL 7044			Carbonatation depth [mm]	Avg. 8 (max 20)
Finishing	Horizontal wood plank patterns			Toxic substance	None
Actual location	Ground- and 1st-floor			Mechanical characteristics	
Initial function	Column load-bearing element			Density	2500 kg/m ³
Accessibility	Difficult – three & more elements to dismantle before			Concrete compressive strength	69 N/mm ²
Anchor points	Not available			Concrete young modulus	41'500 N/mm ²
Overlays	Type	Fixation	Thickness	Reinforcement tensile strength	450 N/mm ²
	None	-	-	Reinforcement young modulus	205'000 N/mm ²
Connexion type	Connected with slabs				
Deconstruction tool	Diamond saw or hydro-blasting				

Element	Geometry			Inventory				Environmental impacts		
	Subtype	Dimensions (W x L x T) [mm]	Reinforcement [mm]	Cross-section resistance [kNm]	Quantity [u]	Weight [kg/u]	Total volume [m ³]	Significance	Initial production [kgCO ₂ -eq/u]	Conventional demolition [kgCO ₂ -eq/u]
East and west near-facade		450 x 300 x 2540	6 x Ø 14	43,8	72	857	24,7	0,4%	76	9
East and west interior		500 x 300 x 2540	6 x Ø 14 / 8 x Ø 12	43,8 / 42,9	72	953	27,4	0,4%	85	10
South		600 x 400 x 4830	10 x Ø 14	97,3	12	2898	13,9	0,2%	258	29

Additional information

Additional note	<ul style="list-style-type: none"> > Stirrups of Ø 8 spaced every 200 mm are present in all columns. > No core was tested from the columns. The carbonatation depth and the concrete resistance are supposed equal to the results of cast-in-place interior walls.
Attention point	-