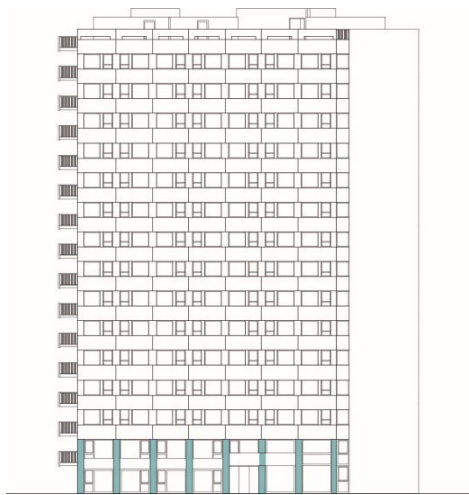


Type 02

Category: Facade elements

Ground- and 1st-floor column coverings

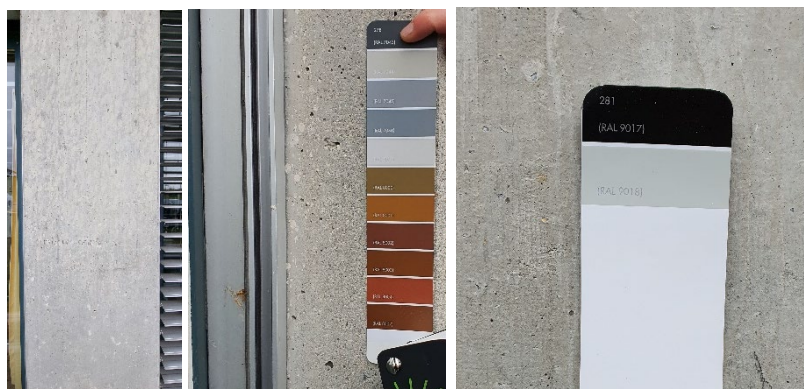
Location



Ground- and 1st-floor column coverings



Color and finishing

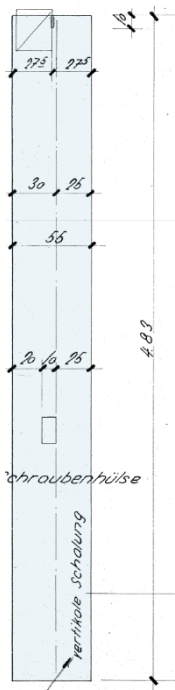


Type 02

Category: Facade elements

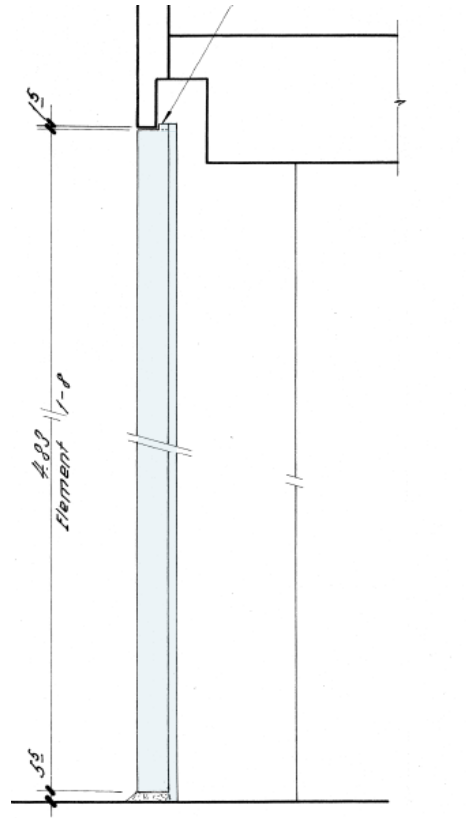
Ground- and 1st-floor column coverings

Subtype n°1, dimensions



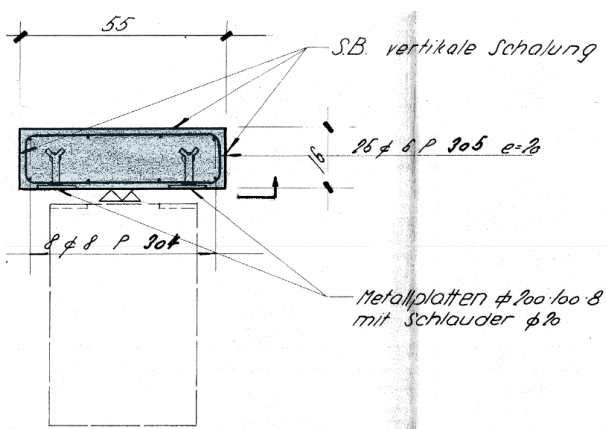
Connexion

1:50



Subtype n°1, cross-section

1:20



Type 02

Category: Facade elements

Ground- and 1st-floor column coverings

Description				Condition and durability	
Exposition	Outdoor, exposed to rain and water flow			Condition assessment	45% good
Color	Grey with a yellowish tint, closest RAL 7044 or 9018				45% acceptable
Finishing	Horizontal wood plank patterns				10% deviant
Actual location	E, W and S facades			Carbonatation depth [mm]	Avg. 2-16 (max 19)
Initial function	Facade self-supporting element			Toxic substance	PCB in joints
Accessibility	Moderate – One/two elements to dismantle before			Mechanical characteristics	
Anchor points	Not available			Density	2500 kg/m ³
Overlays	Type	Fixation	Thickness	Concrete compressive strength	41 N/mm ²
Outside	None	-	-	Concrete young modulus	38'600 N/mm ²
Inside	Window frame	n.a.	-	Reinforcement tensile strength	300 N/mm ²
Connexion type	Connected to other facade elements and foundation			Reinforcement young modulus	205'000 N/mm ²
Deconstruction tool	With facade elements		With foundation		
	Cut joint sealant		Diamond saw		

Element	Geometry			Inventory					Environmental impacts	
	Dimensions (W x L x T) [mm]	Reinforcement [mm]	Cross-section resistance [kNm]	Quantity [u]	Weight [kg/u]	Total area [m ²]	Total volume [m ³]	Significance	Initial production [kgCO ₂ -eq/u]	Conventional demolition [kgCO ₂ -eq/u]
1 to 8	4830 x 550 x 160	2 x 4 x Ø 8	10,2	66	1063	175.3	28,1	0,4%	95	11

Additional information

Additional note	<ul style="list-style-type: none"> > Stirrups of Ø 8 spaced every 250 mm are present. > The carbonatation depth is lower than the 20-mm concrete cover of the rebars. > The depth of carbonatation is less important for the elements of the southern facade.
Attention point	<ul style="list-style-type: none"> > The waterproofing joints sealant placed between the facade elements probably contain polychlorinated biphenyls (PCB). These joints must be completely removed by a specialized company. The removal can be done with a cutter, while avoiding heating the joints or producing dust. > Contamination with PCBs of the concrete neighboring the joints should be checked by further sampling. Most probably, it will be necessary to remove 1cm of the edge that was in contact with the joint.