

# StructBOQ — Structural Estimation Report

2009-01

**DISCLAIMER:** Quantities extracted from IFC file. Reinforcement steel weight calculated from modeled IFCReinforcingBar geometry (CrossSectionArea x BarLength x 7850 kg/m3) — exact rebar schedule used. Verify all quantities against approved design drawings before use in contracts or procurement.

Project:	2009-01	Client:	—
Prepared by:	—	Revision:	R0
Generated:	29 May 2026 19:45	Currency:	EUR (€)
Concrete rate:	€120.0/m3	Steel rate:	€1.2/kg
Wall Filter:	Load-bearing only (partitions excluded)		

## PROJECT SUMMARY

<b>904</b>	<b>2290.912 m3</b>	<b>176 kg</b>	<b>€454,201.50</b>
Total Elements	Concrete Volume	Total Steel	Total Cost

## FILE DATA CONFIDENCE

Data Source	Elements	Share	Reliability
BaseQuantities (IFC certified)	641	100%	PRIMARY
Pset Properties (authored)	0	0%	—
Partial Pset + Defaults	0	0%	—
Geometry Extraction (3D solid)	0	0%	—
Hardcoded Defaults	0	0%	—
<b>Overall Data Reliability</b>			<b>HIGH</b>

## ELEMENT DATA CONFIDENCE

Element Type	Total	BaseQty	Pset	Geo	IFC%	Flagged
Columns	203	196	0	0	100%	0
Beams	371	357	0	0	100%	0
Slabs	4	4	0	0	100%	0
Footings	294	78	0	0	100%	78
Walls	6	6	0	0	100%	0
<b>TOTAL</b>	<b>878</b>	<b>641</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>78</b>

## COST BREAKDOWN

Cost Component	Amount (€)	% of Total
Material — Concrete	€275,062.32	60.6%
Material — Steel	€211.32	0.0%
Waste / Contingency	€27,527.36	6.1%
Labor	€151,400.50	33.3%
<b>TOTAL</b>	<b>€454,201.50</b>	<b>100%</b>

## STRUCTURAL QUANTITY SUMMARY

Type	Subtype	Count	Volume (m3)	Rate	Cost (€)	Pricing	Src
Columns	Column	196	111.93	€120/m3	€22,160	USE	BQ
Beams	Beam	357	358.48	€120/m3	€70,980	USE	BQ
Slabs	RC Floor Slab	4	1467.65	€120/m3	€290,848	USE	BQ
Footings	Footing	78	225.81	€120/m3	€44,710	USE	BQ
Walls	Wall	6	127.04	€120/m3	€25,155	USE	BQ

Src codes: BQ = BaseQuantities (IFC certified) | P = Pset properties | PD = Partial Pset + defaults | G = Geometry extraction | D = Defaults only | NC = Non-concrete

## REINFORCEMENT STEEL SCHEDULE

Source: 11 individual IfcReinforcingBar elements modeled in IFC file.

Extraction method: CrossSectionArea x BarLength x 7850 kg/m3 — exact bar schedule, no estimation used.

Bar Type	Dia (mm)	Count	Total Length (m)	Unit Weight (kg/m)	Weight (kg)	Cost (€)
T13	13	3	67.7	1.042	68.6	€82
T16	16	7	52.0	1.578	81.2	€97
T20	20	1	11.2	2.466	26.3	€32
<b>TOTAL</b>	<b>—</b>	<b>—</b>	<b>130.9</b>	<b>—</b>	<b>176.1</b>	<b>€211</b>

## MODEL DATA QUALITY FINDINGS

78 elements flagged for review | 0 High severity | 0 Medium | 78 Low | Overall model quality: **ACCEPTABLE FOR ESTIMATION**

### Low Severity — 78 Elements (Minor Concern)

#### Finding 1 (78 elements)

**Elements:** M\_Pile Cap-2 Pile:800 x 1800 x 900mm:142647; M\_Pile Cap-2 Pile:800 x 1800 x 900mm:142808; and 76 further elements of the same type

**Issue:** Exported as Slab but detected as Footing via PredefinedType=BASESLAB. Auto-reclassified. Verify type against structural drawings.

Data confidence: 75%

High severity items affect quantity accuracy and should be resolved before use in cost estimation. Low severity items are informational — verify against drawings during detailed design stage.

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