StructBOQ — Structural Estimation Report

001-00

DISCLAIMER: Quantities extracted from IFC file. Accuracy depends on IFC data quality. Reinforcement steel quantities are estimated from concrete volume using industry ratios (BS EN 1992 / ACI 318) — not rebar schedule quantities, do not use for procurement. Verify all quantities against project drawings before use in contracts or procurement.

Project:	**001-00**	Client:	**—**
Prepared by:	**—**	Revision:	**R0**
Generated:	**29 May 2026 19:41**	Currency:	**EUR (€)**
Concrete rate:	**€120.0/m3**	Steel rate:	**€1.2/kg**
Wall Filter:	**Load-bearing only (partitions excluded)**		

PROJECT SUMMARY

452	164.203 m3	12,425 kg	€57,373.92
Total Elements	Concrete Volume	Total Steel	Total Cost

FILE DATA CONFIDENCE

Data Source	Elements	Share	Reliability
BaseQuantities (IFC certified)	32	100%	PRIMARY
Pset Properties (authored)	0	0%	—
Partial Pset + Defaults	0	0%	—
Geometry Extraction (3D solid)	0	0%	—
Hardcoded Defaults	0	0%	—
Overall Data Reliability			**HIGH**

ELEMENT DATA CONFIDENCE

Element Type	Total	BaseQty	Pset	Geo	IFC%	Flagged
Columns	30	1	0	0	100%	0
Beams	268	0	0	0	—	0
Slabs	5	3	0	0	100%	0
Footings	36	19	0	0	100%	15
Walls	9	9	0	0	100%	0
TOTAL	**348**	**32**	**0**	**0**	**100%**	**15**

COST BREAKDOWN

Cost Component	Amount (€)	% of Total
Material — Concrete	€19,861.68	34.6%
Material — Steel	€14,910.39	26.0%
Waste / Contingency	€3,477.21	6.1%
Labor	€19,124.64	33.3%
TOTAL	**€57,373.92**	**100%**

STRUCTURAL QUANTITY SUMMARY

Type	Subtype	Count	Volume (m3)	Rate	Cost (€)	Pricing	Src
Columns	Column	1	0.61	€120/m3	€313	USE	BQ
Slabs	RC Floor Slab	3	42.77	€120/m3	€16,090	USE	BQ
Footings	Footing	19	30.73	€120/m3	€12,429	USE	BQ
Walls	Wall	9	90.09	€120/m3	€28,542	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

WARNING Rebar Data Partial — 346 IfcReinforcingBar elements found. 12 bar(s) had diameter encoded in type name (exact weight computed from geometry). 334 bar(s) had no diameter data — steel weight for all 346 bars estimated from concrete volume x industry ratios (BS EN 1992 / ACI 318). Ask BIM author to populate NominalDiameter and CrossSectionArea on all IfcReinforcingBar elements before re-exporting.

MODEL DATA QUALITY FINDINGS

15 elements flagged for review | 0 High severity | 0 Medium | 15 Low | Overall model quality: **ACCEPTABLE FOR ESTIMATION**

Low Severity — 15 Elements (Minor Concern)

Finding 1 (15 elements)

Elements: M_Pile Cap-600 Pile:600 x 600 x 900mm:512319; M_Pile Cap-600 Pile:600 x 600 x 900mm:512394; and 13 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.