

# StructBOQ — Structural Estimation Report

7765328-33-S

**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:	7765328-33-S	Client:	—
Prepared by:	—	Revision:	R0
Generated:	29 May 2026 23:21	Currency:	EUR (€)
Concrete rate:	€120.0/m3	Steel rate:	€1.2/kg
Wall Filter:	Load-bearing only (partitions excluded)		

## PROJECT SUMMARY

<b>1221</b>	<b>2760.584 m3</b>	<b>220,848 kg</b>	<b>€983,873.94</b>
Total Elements	Concrete Volume	Total Steel	Total Cost

## FILE DATA CONFIDENCE

Data Source	Elements	Share	Reliability
BaseQuantities (IFC certified)	218	81%	PRIMARY
Pset Properties (authored)	0	0%	—
Partial Pset + Defaults	0	0%	—
Geometry Extraction (3D solid)	0	0%	—
Hardcoded Defaults	0	0%	—
Proxy Elements (unclassified)	50	—	MANUAL REVIEW
<b>Overall Data Reliability</b>			<b>HIGH</b>

## ELEMENT DATA CONFIDENCE

Element Type	Total	BaseQty	Pset	Geo	IFC%	Flagged
Columns	54	13	0	0	100%	0
Beams	942	35	0	0	100%	0
Slabs	27	22	0	0	100%	0
Footings	90	90	0	0	100%	81
Walls	58	58	0	0	100%	0
<b>TOTAL</b>	<b>1171</b>	<b>218</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>81</b>

## COST BREAKDOWN

Cost Component	Amount (€)	% of Total
Material — Concrete	€331,269.87	33.7%
Material — Steel	€265,017.37	26.9%
Waste / Contingency	€59,628.72	6.1%
Labor	€327,957.98	33.3%
<b>TOTAL</b>	<b>€983,873.94</b>	<b>100%</b>

## STRUCTURAL QUANTITY SUMMARY

Type	Subtype	Count	Volume (m3)	Rate	Cost (€)	Pricing	Src
Columns	24x24	13	19.48	€120/m3	€10,029	USE	BQ
Beams	18x24	1	1.02	€120/m3	€464	USE	BQ
	24x24	16	18.88	€120/m3	€8,596	USE	BQ
	24x30	14	26.12	€120/m3	€11,896	USE	BQ
	24x39	2	6.05	€120/m3	€2,755	USE	BQ
	Beam	2	7.03	€120/m3	€3,200	USE	BQ
Slabs	RC Floor Slab	22	1155.45	€120/m3	€434,680	USE	BQ
Footings	24x24	42	81.79	€120/m3	€32,388	USE	BQ
	30x30	22	76.34	€120/m3	€30,232	USE	BQ
	36x36	13	6.63	€120/m3	€2,624	USE	BQ
	Footing	13	196.86	€120/m3	€77,955	USE	BQ
Walls	Wall	58	1164.94	€120/m3	€369,054	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

Steel weight estimated: 220,847.9 kg — derived from concrete volume x industry ratios (BS EN 1992 / ACI 318). No modeled IfcReinforcingBar elements found in IFC file. Do not use for rebar procurement.

## MODEL DATA QUALITY FINDINGS

131 elements flagged for review | 50 High severity | 65 Medium | 16 Low | Overall model quality: **ACCEPTABLE FOR ESTIMATION**

### High Severity — 50 Elements (Quantity Accuracy Affected)

#### Finding 1 (50 elements)

**Elements:** SCN\_Embed:\_Size:642543; SCN\_HAS:3/8:642548; and 48 further elements of the same type

**Issue:** Exported as IfcBuildingElementProxy — BIM software could not map this family to a standard IFC class. Classify manually and assign correct type.

Data confidence: 0%

## Medium Severity — 65 Elements (Classification Requires Confirmation)

---

### Finding 2 (65 elements)

**Elements:** SFD\_Round:30x30x25':671837; SFD\_Round:30x30x25':673054; and 63 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: 50%

## Low Severity — 16 Elements (Minor Concern)

---

### Finding 3 (16 elements)

**Elements:** Foundation Slab:FNDN-36:680685; SFD\_Pile\_Cap\_Rectangle:36x36x24 Pile\_30:68250; and 14 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.

---

**DISCLAIMER:** This report is for early-stage structural estimation only. All quantities should be verified against approved structural drawings and engineer's calculations before use in contracts, tenders, or procurement. This report does not constitute a structural engineer's assessment. [shabirbim.com](http://shabirbim.com)