

BAR BENDING SCHEDULE

FrameAI Civil

PROJECT

Cantilever Retaining Wall — 4m High

DRAWING

DATE

2026-06-14

SPEC

BS 8666:2020

GRADE

B500B

MARK	DIA (mm)	CODE	SHAPE	DIMS (mm)	QTY	CUT L (mm)	kg/m	TOTAL (kg)	LOCATION
V1	20	11	L-bar (single 90°)	A=4350 B=300	60	4629	2.468	685.46	Stem — main tension ba
SUBTOTAL H20: 1079.36 kg (144 bars)									
V2	16	11	L-bar (single 90°)	A=4350 B=300	60	4633	1.580	439.21	Stem — secondary bars
SUBTOTAL H16: 1171.70 kg (224 bars)									
H1	12	00	Straight bar	A=3400	88	3400	0.888	265.69	Stem — horizontal dist
SUBTOTAL H12: 327.45 kg (172 bars)									
S1	10	33	Closed rectangular	A=220 B=220	264	1036	0.617	168.75	Stem horizontal links
SUBTOTAL H10: 168.75 kg (264 bars)									
BA1	20	00	Straight bar	A=2600	42	2600	2.468	269.51	Base — heel bottom bar
SUBTOTAL H20: 1079.36 kg (144 bars)									
BA2	16	00	Straight bar	A=2600	42	2600	1.580	172.54	Base — heel top bars
SUBTOTAL H16: 1171.70 kg (224 bars)									
BA3	20	00	Straight bar	A=1200	42	1200	2.468	124.39	Base — toe bottom bars
SUBTOTAL H20: 1079.36 kg (144 bars)									
BA4	16	00	Straight bar	A=1200	42	1200	1.580	79.63	Base — toe top bars
BA5	16	00	Straight bar	A=3800	80	3800	1.580	480.32	Base — transverse bars
SUBTOTAL H16: 1171.70 kg (224 bars)									
K1	12	33	Closed rectangular	A=200 B=120	84	828	0.888	61.76	Base — kicker links
SUBTOTAL H12: 327.45 kg (172 bars)									

GRAND TOTAL: 2.747 t (2747.26 kg) | 10 bar marks | 804 bars total | Grade B500B

TONNAGE BY DIAMETER

DIA (mm)	GRADE	BAR COUNT	WEIGHT (kg)	WEIGHT (t)	STOCK BARS	WASTE %	kg/m
H10	B500B	264	168.75	0.169	24	5%	0.617
H12	B500B	172	327.45	0.327	32	4%	0.888
H16	B500B	224	1171.70	1.172	64	3.4%	1.580
H20	B500B	144	1079.36	1.079	37	1.5%	2.468

TOTAL: 2747.26 kg = 2.747 t | Grade B500B | Spec: BS 8666:2020

Estimated cost @ €1200/t: €3296 (indicative — confirm with supplier)