

**Bar bending list for foundations of example building**

Member	Bar mark	Type & size	No. of members	No. of bars in each member	Total no. of bars	Shape Code	Length A (mm)	Length B (mm)	Length C (mm)	Length D (mm)	Length E (mm)	Total Length (mm)	Total weight (Kg)
F1	Short	Φ 12	4	6	24	SH-5	320	820	320			1400	29.84
	Long	Φ 12	4	5	20	SH-5	308	920	308			1476	26.21
F2	Short	Φ 12	4	8	32	SH-5	320	1120	320			1700	48.31
	Long	Φ 12	4	7	28	SH-5	308	1220	308			1776	44.16
Ties axes 1 & 4	Long Bar	Φ 16	2	6	12	SH-1	5200					5200	98.59
	Stirrups	φ 8	2	20	40	SH-8	320	220				1160	18.28
Ties axes 2 & 3	Long Bar	Φ 16	2	6	12	SH-1	5200					5200	98.59
	Stirrups	φ 8	2	18	36	SH-8	320	220				1160	16.45
Ties on A&B between 1&2, 3&4	Long Bar	Φ 16	4	6	24	SH-1	4300					4300	163.06
	Stirrups	φ 8	4	16	64	SH-8	320	220				1160	29.25
Ties on A & B between 2 & 3	Long Bar	Φ 16	2	6	12	SH-1	4200					4200	79.63
	Stirrups	φ 8	2	14	28	SH-8	320	220				1160	12.80
Tie between axes A, B, 1 & 2	Long Bar	Φ 16	1	6	6	SH-5	310	4220	310			4760	45.12
	Stirrups	φ 8	1	18	18	SH-8	320	220				1160	8.23
Columns	dowels	Φ 16	8	6	48	SH-4	344	976				1280	97.08
<b>Total weight</b>												<b>815.60</b>	

**Bar bending list for slabs of example building**

Member	Bar mark	Type & size	No. of members	No. of bars in each member	Total no. of bars	Shape Code	Length A (mm)	Length B (mm)	Length C (mm)	Length D (mm)	Length E (mm)	Total Length (mm)	Total weight (Kg)
Edge slabs	1	Φ 10	2	34	68	SH-1	3625					3625	151.84
	3	Φ 10	2	20	40	SH-1	4480					4480	110.39
	4	Φ 10	2	34	68	SH-1	2130					2130	89.22
	5	Φ 10	2	24	48	SH-4	60	790				825	24.39
	6	Φ 10	2	20	40	SH-4	60	935				970	23.90
	7	Φ 10	2	10	20	SH-1	3745					3745	46.14
	8	Φ 10	2	10	20	SH-1	2750					2750	33.88
Middle slab	2	Φ 10	1	34	34	SH-1	3210					3210	67.23
	3	Φ 10	1	19	19	SH-1	4480					4480	52.43
	6	Φ 10	1	19	19	SH-4	60	935				970	11.35
	7	Φ 10	1	12	12	SH-1	3745					3745	27.68
	9	Φ 10	1	10	10	SH-1	2320					2320	14.29
Canteliver	10	Φ 10	1	62	62	SH-5	1480	60	730			2220	84.79
	11	Φ 10	1	6	6	SH-1	12410					12410	45.87
<b>Total weight</b>												<b>783.41</b>	

**Bar bending list for Beams and Columns of example building (Option 1)**

Member	Bar mark	Type & size	No. of members	No. of bars in each member	Total no. of bars	Shape Code	Length A (mm)	Length B (mm)	Length C (mm)	Length D (mm)	Length E (mm)	Total Length (mm)	Total weight (Kg)
Beam B1	B-A	Φ 16	2	2	4	SH-1	3520					3520	22.25
	B-B	Φ 16	2	1	2	SH-5	300	5150	300			5670	17.92
	T-A	Φ 12	2	2	4	SH-5	540	5150	540			6170	21.92
	Stirrups	φ 8	2	23	46	SH-8	550	200				1580	28.64
Beam B2	B-A	Φ 16	2	2	4	SH-1	3520					3520	22.25
	B-B	Φ 16	2	2	4	SH-5	300	5150	300			5670	35.83
	T-A	Φ 16	2	4	8	SH-4	540	1035				1535	19.40
	T-B	Φ 12	2	2	4	SH-1	3580					3580	12.72
	Stirrups	φ 8	2	23	46	SH-8	550	200				1580	28.64
Beam B3	B-A	Φ 16	2	2	4	SH-4	300	4275				4535	28.66
	B-B	Φ 16	2	2	4	SH-1	2870					2870	18.14
	B-C	Φ 16	2	2	4	SH-1	3450					3450	21.80
	T-A	Φ 16	2	4	8	SH-1	2740					2740	34.63
	T-B	Φ 12	2	4	8	SH-4	540	3005				3515	24.97
	T-C	Φ 12	2	2	4	SH-1	1660					1660	5.90
	Stirrups	φ 8	2	57	114	SH-8	550	200				1580	70.97
Columns	Main	Φ 16	8	6	48	SH-4	640	4100				4700	356.45
	Stirrups	φ 8	8	21	168	SH-21	350	250	36			1788	118.35
<b>Total weight</b>												<b>889.42</b>	

**Bar bending list for Beams and Columns of example building (Option 2)**

Member	Bar mark	Type & size		No. of members	No. of bars in each member	Total no. of bars	Shape Code	Length A (mm)	Length B (mm)	Length C (mm)	Length D (mm)	Length E (mm)	Total Length (mm)	Total weight (Kg)
		Φ	mm											
Beam B1	B-A	Φ	16	2	3	6	SH-4	300	4335				4595	43.56
	T-A	Φ	12	2	2	4	SH-5	540	5150	540			6170	21.92
	Stirrups	φ	8	2	23	46	SH-8	550	200				1580	28.64
Beam B2	B-A	Φ	16	2	4	8	SH-4	300	4335				4595	58.08
	T-A	Φ	16	2	4	8	SH-4	540	1035				1535	19.40
	T-B	Φ	12	2	2	4	SH-1	3580					3580	12.72
	Stirrups	φ	8	2	23	46	SH-8	550	200				1580	28.64
Beam B3	B-A	Φ	16	2	2	4	SH-4	300	4275				4535	28.66
	B-B	Φ	16	2	2	4	SH-1	2870					2870	18.14
	B-C	Φ	16	2	2	4	SH-1	3450					3450	21.80
	T-A	Φ	16	2	4	8	SH-1	2740					2740	34.63
	T-B	Φ	12	2	4	8	SH-4	540	3005				3515	24.97
	T-C	Φ	12	2	2	4	SH-1	1660					1660	5.90
	Stirrups	φ	8	2	57	114	SH-8	550	200				1580	70.97
Columns	Main	Φ	16	8	6	48	SH-4	640	4100				4700	356.45
	Stirrups	φ	8	8	42	336	SH-8	250	195				970	128.41
												<b>Total weight</b>	<b>859.32</b>	