













CALCULS DES CUBES - POUTRES (Béton : C25/30)























Désignation	Nombre	Détails calculs			Volume (m ³)
		b (m)	h (m)	Longueur (m)	
P.B.A. P1.1a	1	0,20	0,20	12,02 m	0,481 m ³
P.B.A. P1.1b	1	0,20	0,20	12,19 m	0,482 m ³
P.B.A. P1.1c	1	0,20	0,19	12,14 m	0,469 m ³
P.B.A. P1.1d	1	0,20	0,20	12,19 m	0,482 m ³
P.B.A. P1.1e	1	0,20	0,20	1,00 m	0,04 m ³
P.B.A. P1.1f	1	0,20	0,20	1,00 m	0,04 m ³
P.B.A. P1.1g	1	0,20	0,20	1,00 m	0,04 m ³
P.B.A. P1.1h	1	0,20	0,20	1,00 m	0,04 m ³

 Total poutres (m³) :

 2,074 m³
NOMENCLATURE DES ARMATURES A BETON - POUTRES B.A.(BE500S)

Pos.	Diam.	Nombre			Hôte	Esp (cm)	Schéma	A (cm)	B (cm)	C (cm)	D (cm)	E (cm)	Long. (m)	Long totale (m)	Masse (kg)
		dans un élément	d'éléments	Total											
1	8	82	1	82	P1.1a	15,0		16	15	15	15	15	0,71	58,24	23,00 kg
1	8	82	1	82	P1.1c	15,0		16	15	15	15	15	0,71	58,24	23,00 kg
1	8	81	1	81	P1.1d	15,0		16	15	15	15	15	0,71	57,53	22,72 kg
1	8	8	1	8	P1.1e	15,0		16	15	15	15	15	0,71	5,68	2,24 kg
1	8	8	1	8	P1.1f	15,0		16	15	15	15	15	0,71	5,68	2,24 kg
1	8	7	1	7	P1.1g	15,0		16	15	15	15	15	0,71	4,97	1,96 kg
1	8	8	1	8	P1.1h	15,0		16	15	15	15	15	0,71	5,68	2,24 kg
1	8	81	1	81	P1.1b	15,0		16	15	15	15	15	0,71	57,53	22,72 kg
2	12	2	1	2	P1.1a			0	1.209	0	0	0	12,09	24,17	21,75 kg
2	12	2	1	2	P1.1c			0	1.209	0	0	0	12,09	24,17	21,75 kg
2	12	2	1	2	P1.1a			0	1.209	0	0	0	12,09	24,17	21,75 kg
2	12	2	1	2	P1.1c			0	1.209	0	0	0	12,09	24,17	21,75 kg

NOMENCLATURE DES ARMATURES A BETON - POUTRES B.A.(BE500S)

Pos.	Diam.	Nombre			Hôte	Esp (cm)	Schéma	A (cm)	B (cm)	C (cm)	D (cm)	E (cm)	Long. (m)	Long totale (m)	Masse (kg)
		dans un élément	d'éléments	Total											
2	12	2	2	2	P1.1d		0	1.214	0	0	0	12,14	24,28	43,70 kg	
2	12	2	2	2	P1.1e		0	115	0	0	0	1,15	2,30	4,14 kg	
2	12	2	2	2	P1.1f		0	115	0	0	0	1,15	2,30	4,14 kg	
2	12	2	2	2	P1.1g		0	109	0	0	0	1,09	2,18	3,92 kg	
2	12	2	2	2	P1.1h		0	115	0	0	0	1,15	2,30	4,14 kg	
2	12	2	2	2	P1.1b		0	1.214	0	0	0	12,14	24,28	43,70 kg	
8	12	2	1	2	P1.1a		0	60	60	0	0	1,18	2,35	2,12 kg	
8	12	2	1	2	P1.1d		0	60	60	0	0	1,18	2,35	2,12 kg	
8	12	2	2	2	P1.1a		0	60	60	0	0	1,18	2,35	4,23 kg	
8	12	2	2	2	P1.1e		0	60	60	0	0	1,18	2,35	4,23 kg	
9	12	2	1	2	P1.1a		0	40	60	0	0	0,98	1,95	1,76 kg	
9	12	2	1	2	P1.1b		0	60	60	0	0	1,18	2,35	2,12 kg	
9	12	2	2	2	P1.1d		0	<variable>	60	0	0	<varie>	<varie>	3,87 kg	
9	12	2	4	2	P1.1c		0	60	60	0	0	1,18	2,35	8,46 kg	
10	12	2	1	2	P1.1a		0	60	40	0	0	0,98	1,95	1,76 kg	
10	12	2	1	2	P1.1b		0	60	40	0	0	0,98	1,95	1,76 kg	
10	12	2	2	2	P1.1d		0	60	40	0	0	0,98	1,95	3,51 kg	
10	12	2	2	2	P1.1a		0	60	40	0	0	0,98	1,95	3,51 kg	
10	12	2	4	2	P1.1c		0	60	40	0	0	0,98	1,95	7,02 kg	
10	12	2	2	2	P1.1e		0	60	40	0	0	0,98	1,95	3,51 kg	
11	12	2	1	2	P1.1b		0	40	60	0	0	0,98	1,95	1,76 kg	
11	12	2	1	2	P1.1d		0	40	60	0	0	0,98	1,95	1,76 kg	
Total armatures poutres (kg)															344,34 kg