



**Mi Universidad**

## **Ensayo**

*Nombre del Alumno: Aguilar López Jorge Alberto*

*Nombre del tema: Cuantificación de barda*

*Parcial: 3*

*Nombre de la Materia: Taller de materiales básicos de construcción*

*Nombre del profesor: Pedro Alberto García López*

*Nombre de la Licenciatura: Arquitectura*

*Cuatrimestre: 5*

#	Concepto	Unidad	Eje	Tramo	Base	Longitud	Altura	PZAS	Total	OBS.
1-	Excavación	m <sup>3</sup>	A	1-2	1.0m	12.4m	1.18m	1	14.63m <sup>3</sup> + 13/ = 19.02m <sup>3</sup>	ZC-1
1-	Concreto FC=100 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	1.0m	12.4m	0.05m	1	0.62m <sup>3</sup> +5% = 0.65m <sup>3</sup>	ZC-1
1-	Acero #2	kg	A	1-2	0	1.19m	0	50	60	ZC-1
2-	Acero #2	kg	A	1-2	0	1.19m	0	50	36	ZC-1
									96 + 3/ = 98.88	
1-	Acero #3	PZA	A	1-2	0	11.87m	0	4	47.44	ZC-1
2-	Acero #3	PZA	A	1-2	0	12.005m	0	2	24.01	ZC-1
3-	Acero #3	PZA	A	1-2	0	1.03	0	78	80.31	ZC-1
									171.54 + 3/1 = 156.34/12 = 13 PZAS	
1-	Acero #5	PZA	A	1-2	0	12.305m		4	49.22 + 7/1 = 52.76/12 = 12.02	ZC-1
1-	Armex 15x20-4	PZA	A	1-2	0	7.27m	0	1	7.27	D-1
2-	Armex 15x20-4	PZA	A	1-2	0	7.27m	0	1	7.27	CR-1
3-	Armex 15x20-4	PZA	A	A-B	0	4.275m	0	1	4.275m	D-1
4-	Armex 15x20-4	PZA	1	A-B	0	4.275m	0	1	4.275m	CR-1
5-	Armex 15x20-4	PZA	A	1-2		3.93m		6	23.58m 46.67 + 7/6 = 8 PZAS	K-1

#	Concepto	Unidad	Eje	Tramo	Base	Longitud	Altura	PZAS	Total	OBS.
1		PZA	A	1-2	0	7.27m	0.43m	13 P/m <sup>2</sup>	40.62 pzas	Enrase
2		PZA	1	A-B	0	4.275m	0.43m	13 P/m <sup>2</sup>	23.90 pzas	Enrase
3		PZA	A	1-2	0	7.27m	2.10m	13 p/m <sup>2</sup>	198.47 pzas	Muro
4		PZA	1	A-B	0	4.275m	2.10m	13 p/m <sup>2</sup>	116.70 pzas	Muro
									379.69 pzas - 380 pzas x + 15.00 = + 600.00	
1	Concreto F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	0.90m	4.275m	0.15m	1	0.577m <sup>3</sup>	ZC-1
2	Concreto F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	1	A-B	0.15	4.275m	0.55m	1	0.209m <sup>3</sup>	CT-1
3	Concreto F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	0.15	4.275m	0.20	1	0.128m <sup>3</sup>	D-1
4	Concreto F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	1	A-B	0.15	4.275m	0.20	1	0.128m <sup>3</sup> 1.042 + 5% = 1.018m <sup>3</sup>	CR-1
1	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	0.90m	8.00m	0.15m	1	1.08m <sup>3</sup>	Base
2	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	1	A-B	0.90m	4.10m	0.15m	1	0.553m <sup>3</sup>	Base
3	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	0.14m	7.27m	0.35m	1	0.35m <sup>3</sup>	CT-1
4	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	1	A-B	0.14m	4.275m	0.35m	1	0.35m <sup>3</sup>	CT-1
5	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	0.14m	7.27m	0.20m	1	0.20m <sup>3</sup>	D-1
6	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	1	A-B	0.14m	4.275m	0.20m	1	0.119m <sup>3</sup>	D-1
7	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	0.14m	7.27m	0.20m	1	0.203m <sup>3</sup>	CR-1
8	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	1	A-B	0.14m	4.275m	0.20m	1	0.119m <sup>3</sup>	CR-1
9	Con.F'c=200 kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	0.14m	0.20m	2.53m	6	0.425m <sup>3</sup> = 3.262m <sup>3</sup> + 5% = 3.425m <sup>3</sup>	K-1