CITTA' METROPOLITANA DI MESSINA

IV DIREZIONE - Servizi Tecnici Generali
Servizio Edilizia Scolastica

AMPLIAMENTO DELL'ISTITUTO SUPERIORE "I.C.E. VAINICHER" DI LIPARI (ME)

C.U.P. B66B14000020002

- P R O G E T T O E S E C U T I V O -

ELABORATI	1
Riepilogo contabilità elementi strutturali	R.13

PROGETTISTI:	Arch. Domenico CALARCO Arch. Caterina MARINO Arch. Matteo VENUTO Geom. Fortunato CHIESINI
STRUTTURISTA:	Ing. Giovanni LENTINI
IMPIANTISTA:	Ing. Giovanni PARISI
RESPONSABILE DEL PROCEDIMENTO	Ing. Carmelo BATTAGLIA

Messina, 31/08/2021 Revisione 01 - 21/01/2022	Visti ed approvazioni
APPROVAZIONE IN LINEA TECNICA (ai sensi dell'art. 26 comma 8 D.Lgs. 50/2016) PROVVEDIMENTO n° 24 del 14.10.2022 Il Responsabile del Procedimento (Ing. Carmelo BATTAGLIA)	VALIDATO (ai sensi dell'art. 26 comma 8 D.Lgs. 50/2016) PROVVEDIMENTO n° == del 12.10.2022

CONTABILITÀ FERRI

NUOVO PLESSO SCOLASTICO

Contabilità Ferri

Piano 4

Travi	Tipo Mat	Diametro [mm]	Sviluppo [ml]	Peso [daN]
	Barre1	10	771.3	475.5
		16	383.2	604.8
		18	34.2	68.3
		TOTALE	**1188.6**	**1148.6**
Pilastri	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	513.0	316.3
		20	271.8	670.3
		24	337.3	1197.9
		TOTALE	**1122.2**	**2184.5**
Totali	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	1284.3	791.8
		16	383.2	604.8
		18	34.2	68.3
		20	271.8	670.3
		24	337.3	1197.9
		TOTALE	**2310.8**	**3333.1**

Piano 3

Travi	Tipo Mat	Diametro [mm]	Sviluppo [ml]	Peso [daN]
	Barre1	10	4023.2	2480.4
		16	2634.8	4158.6
		TOTALE	**6658.0**	**6639.0**
Pilastri	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	3379.9	2083.8
		20	1962.5	4839.9
		24	440.3	1563.8
		TOTALE	**5782.7**	**8487.4**
Pareti	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	16	147.0	232.0
		TOTALE	**147.0**	**232.0**
Totali	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	7403.0	4564.2
		16	2781.8	4390.6
		20	1962.5	4839.9
		24	440.3	1563.8
		TOTALE	**12587.6**	**15358.4**

Piano 2

Travi	Tipo Mat	Diametro [mm]	Sviluppo [ml]	Peso [daN]
	Barre1	10	4205.1	2592.6
		16	2727.6	4305.1
		18	182.7	364.9
		TOTALE	**7115.5**	**7262.7**
Pilastri	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	3693.8	2277.4
		20	2785.9	6870.5
		24	499.3	1773.1
		TOTALE	**6979.1**	**10921.0**
Pareti	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	16	180.0	284.2
		TOTALE	**180.0**	**284.2**
Totali	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	7899.0	4870.0
		16	2907.7	4589.3
		18	182.7	364.9
		20	2785.9	6870.5
		24	499.3	1773.1

		TOTALE	**14274.5**	**18467.9**

Piano 1

Travi	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	3684.4	2271.6
		16	2339.4	3692.3
		18	133.7	267.1
		TOTALE	**6157.5**	**6231.0**
Pilastri	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	3816.1	2352.8
		20	4117.1	10153.3
		24	666.4	2366.7
		TOTALE	**8599.6**	**14872.8**
Pareti	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	16	846.6	1336.2
		18	216.9	433.3
		TOTALE	**1063.5**	**1769.5**
Totali	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	7500.5	4624.3
		16	3186.0	5028.5
		18	350.6	700.4
		20	4117.1	10153.3
		24	666.4	2366.7
		TOTALE	**15820.6**	**22873.3**

Fondazione

Travi	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	11339.0	6990.9
		16	7471.5	11792.6
		18	64.1	127.9
		TOTALE	**18874.5**	**18911.4**
Platee	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	18	9802.1	19580.5
		TOTALE	**9802.1**	**19580.5**
Totali	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	11339.0	6990.9
		16	7471.5	11792.6
		18	9866.1	19708.4
		TOTALE	**28676.6**	**38491.9**

Totale Struttura

	Tipo Mat	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	10	35425.8	21841.3
		16	16730.1	26405.7
		18	10433.6	20842.0
		20	9137.3	22534.0
		24	1943.4	6901.5
		TOTALE	**73670.2**	**98524.6**

CONTABILITÀ CLS

NUOVO PLESSO SCOLASTICO

Contabilità Cls

Piano 4

Travi	Tipo Mat	Fili	Luce [ml]	TIPO	Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1	20-21	3.15	13	0.472	4.095	
		47-20	2.90	10	0.348	3.187	
		48-21	2.90	10	0.348	2.384	
		27-29	2.75	5	0.495	4.125	
		27-41	6.00	5	1.080	7.488	
		27-47	2.90	10	0.349	2.462	
		29-30	1.50	5	0.270	2.250	
		29-33	1.80	5	0.324	1.692	
		29-48	2.90	10	0.349	1.657	
		30-43	6.00	5	1.080	7.488	
		32-33	1.80	5	0.324	2.700	
		32-37	1.80	5	0.324	1.692	
		33-38	1.80	5	0.324	1.692	
		37-38	1.80	5	0.324	2.700	
		38-42	1.80	5	0.324	1.692	
		41-42	2.75	5	0.495	4.125	
		42-43	1.50	5	0.270	2.250	
		47-48	3.80	8	0.399	3.496	
				TOTALE	**7.898**	**57.174**	
Pilastri	**Tipo Mat**	**Fili**	**Altezza [ml]**	**TIPO**	**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	20	3.00	1	0.450	4.800	
		21	3.00	1	0.450	4.800	
		27	3.00	3	0.540	5.400	
		29	3.00	3	0.540	5.400	
		30	3.00	3	0.540	5.400	
		32	3.00	4	0.270	3.600	
		33	3.00	4	0.270	3.600	
		37	3.00	4	0.270	3.600	
		38	3.00	4	0.270	3.600	
		41	3.00	3	0.540	5.400	
		42	3.00	3	0.540	5.400	
		43	3.00	3	0.540	5.400	
				TOTALE	**5.220**	**56.400**	
Totali	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				13.118	113.574	
				TOTALE	**13.118**	**113.574**	

Piano 3

Travi	Tipo Mat	Fili	Luce [ml]	TIPO	Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1	1-2	4.55	5	0.819	5.553	
		1-7	2.75	13	0.412	3.575	
		2-3	3.45	5	0.621	4.203	
		2-8	2.75	14	0.330	2.695	
		3-4	3.20	5	0.576	4.800	
		3-9	2.75	14	0.330	1.963	
		4-5	2.95	5	0.531	4.425	
		4-13	5.80	9	1.218	6.932	
		5-6	4.00	5	0.720	6.000	
		5-14	5.80	9	1.218	6.932	
		6-15	5.80	9	1.218	8.396	
		7-8	4.55	5	0.819	4.281	
		7-10	2.75	13	0.412	3.575	

		8-9	3.45	5	0.621	3.231	
		8-11	2.75	5	0.495	4.125	
		9-12	2.75	13	0.413	2.843	
		10-11	4.55	5	0.819	4.281	
		10-16	2.75	13	0.412	3.575	
		11-12	3.40	5	0.612	3.180	
		12-13	3.25	14	0.390	3.185	
		12-17	2.75	13	0.413	2.846	
		13-14	2.95	5	0.531	4.425	
		13-20	5.80	9	1.218	6.932	
		14-15	4.00	5	0.720	6.000	
		14-21	5.80	9	1.218	6.932	
		15-22	5.80	9	1.218	8.396	
		16-17	8.60	9	1.806	10.060	
		16-18	2.75	13	0.412	3.575	
		17-19	2.75	13	0.412	2.843	
		18-19	8.60	9	1.806	10.060	
		18-23	2.75	13	0.412	3.575	
		19-20	2.90	14	0.348	2.842	
		19-24	2.75	13	0.412	2.843	
		20-21	2.95	5	0.531	4.425	
		20-27	5.80	9	1.218	6.932	
		21-29	5.80	9	1.218	6.932	
		21-50	0.90	5	0.162	1.350	
		22-31	5.80	9	1.218	8.396	
		50-22	2.45	5	0.441	3.675	
		23-24	8.60	9	1.806	10.060	
		23-25	2.75	13	0.412	3.575	
		24-26	2.75	13	0.412	2.843	
		25-26	8.60	9	1.806	10.060	
		25-34	2.85	13	0.428	3.705	
		26-27	3.00	14	0.360	2.940	
		26-35	2.85	13	0.428	2.949	
		28-27	0.90	13	0.135	0.834	
		27-36	3.90	5	0.702	3.834	
		29-28	1.45	13	0.218	1.345	
		32-28	1.80	5	0.324	2.196	
		29-30	1.50	5	0.270	2.250	
		29-33	1.80	5	0.324	2.196	
		30-31	2.20	5	0.396	3.300	
		43-30	6.00	9	1.260	8.688	
		31-44	6.00	9	1.260	8.688	
		32-33	1.80	5	0.324	2.700	
		32-37	1.80	5	0.324	2.700	
		33-38	1.80	5	0.324	2.700	
		34-35	8.60	9	1.806	10.060	
		34-39	2.85	13	0.428	3.705	
		35-40	3.00	13	0.450	3.141	
		37-36	1.15	13	0.172	1.135	
		36-41	1.80	5	0.324	2.196	
		37-38	1.80	5	0.324	2.700	
		39-49	7.05	9	1.480	10.185	
		40-41	3.25	9	0.683	5.525	
		41-42	2.75	5	0.495	4.125	
		42-43	1.50	5	0.270	2.250	
		43-44	2.20	5	0.396	3.300	
				TOTALE	**47.043**	**316.674**	
Pilastri	**Tipo Mat**	**Fili**	**Altezza [ml]**	**TIPO**	**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	1	3.50	2	0.945	8.400	
		2	3.50	3	0.630	6.300	
		3	3.50	3	0.630	6.300	

		4	3.50	1	0.525	5.600	
		5	3.50	2	0.945	8.400	
		6	3.50	2	0.945	8.400	
		7	3.50	2	0.945	8.400	
		8	3.50	3	0.630	6.300	
		9	3.50	3	0.630	6.300	
		10	3.50	2	0.945	8.400	
		11	3.50	3	0.630	6.300	
		12	3.50	3	0.630	6.300	
		13	3.50	1	0.525	5.600	
		14	3.50	2	0.945	8.400	
		15	3.50	2	0.945	8.400	
		16	3.50	7	0.945	8.400	
		17	3.50	7	0.945	8.400	
		18	3.50	7	0.945	8.400	
		19	3.50	7	0.945	8.400	
		20	3.50	1	0.525	5.600	
		21	3.50	2	0.945	8.400	
		22	3.50	15	1.050	9.100	
		23	3.50	7	0.945	8.400	
		24	3.50	7	0.945	8.400	
		25	3.50	7	0.945	8.400	
		26	3.50	7	0.945	8.400	
		27	3.50	3	0.630	6.300	
		28	3.50	12	0.420	4.900	
		29	3.50	3	0.630	6.300	
		30	3.50	3	0.630	6.300	
		31	3.50	2	0.945	8.400	
		32	3.50	4	0.315	4.200	
		33	3.50	4	0.315	4.200	
		34	3.50	7	0.945	8.400	
		35	3.50	7	0.945	8.400	
		36	3.50	12	0.420	4.900	
		37	3.50	4	0.315	4.200	
		38	3.50	4	0.315	4.200	
		39	3.50	2	0.945	8.400	
		41	3.50	3	0.630	6.300	
		42	3.50	3	0.630	6.300	
		43	3.50	3	0.630	6.300	
		44	3.50	2	0.945	8.400	
		50	3.50	3	0.630	6.300	
				TOTALE	**32.760**	**310.800**	
Pareti	**Tipo Mat**	**Fili**	**Luce [ml]**		**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	40-49	2.20		2.310	17.500	
				TOTALE	**2.310**	**17.500**	
Totali	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				82.113	644.974	
				TOTALE	**82.113**	**644.974**	

Piano 2

Travi	**Tipo Mat**	**Fili**	**Luce [ml]**	**TIPO**	**Volume [m³]**	**Sup.Carp. [m²]**	**Magro [m³]**
	Cls1	1-2	4.55	5	0.819	5.553	
		1-7	2.75	13	0.412	3.575	
		2-3	3.45	5	0.621	4.203	
		2-8	2.75	14	0.330	2.695	
		3-4	3.20	5	0.576	4.800	
		3-9	2.75	14	0.330	1.963	
		4-5	2.95	5	0.531	4.425	
		4-13	5.80	9	1.218	6.932	

		5-6	4.00	5	0.720	6.000	
		5-14	5.80	9	1.218	6.932	
		6-15	5.80	9	1.218	8.396	
		7-8	4.55	5	0.819	5.553	
		7-10	2.75	13	0.412	3.575	
		8-9	3.45	5	0.621	3.231	
		8-11	2.75	5	0.495	4.125	
		9-12	2.75	13	0.413	2.843	
		10-11	4.55	5	0.819	5.553	
		10-16	2.75	13	0.412	3.575	
		11-12	3.40	5	0.612	3.180	
		12-13	3.25	14	0.390	3.185	
		12-17	2.75	13	0.413	2.846	
		13-14	2.95	5	0.531	4.425	
		13-20	5.80	9	1.218	6.932	
		14-15	4.00	5	0.720	6.000	
		14-21	5.80	9	1.218	6.932	
		15-22	5.80	9	1.218	8.396	
		16-17	8.60	9	1.806	10.060	
		16-18	2.75	13	0.412	3.575	
		17-19	2.75	13	0.412	2.843	
		18-19	8.60	9	1.806	10.060	
		18-23	2.75	13	0.412	3.575	
		19-20	2.90	14	0.348	2.842	
		19-24	2.75	13	0.412	2.843	
		20-21	2.95	5	0.531	4.425	
		20-27	5.80	9	1.218	6.932	
		21-29	5.80	9	1.218	6.932	
		21-50	0.90	5	0.162	1.350	
		22-31	5.80	9	1.218	8.396	
		50-22	2.45	5	0.441	3.675	
		23-24	8.60	9	1.806	10.060	
		23-25	2.75	13	0.412	3.575	
		24-26	2.75	13	0.412	2.843	
		25-26	8.60	9	1.806	10.060	
		25-34	2.85	13	0.428	3.705	
		26-27	3.00	14	0.360	2.940	
		26-35	2.85	13	0.428	2.949	
		28-27	0.90	13	0.135	0.834	
		27-36	3.90	5	0.702	4.842	
		29-28	1.45	13	0.218	1.345	
		32-28	1.80	5	0.324	2.196	
		29-30	1.50	5	0.270	2.250	
		29-33	1.80	5	0.324	2.196	
		30-31	2.20	5	0.396	3.300	
		30-43	6.00	9	1.260	8.688	
		31-44	6.00	9	1.260	8.688	
		32-33	1.80	5	0.324	2.700	
		32-37	1.80	5	0.324	2.700	
		33-38	1.80	5	0.324	2.700	
		34-35	8.60	9	1.806	10.060	
		34-39	2.85	13	0.428	3.705	
		35-40	3.00	13	0.450	3.141	
		37-36	1.15	13	0.172	1.135	
		36-41	1.80	5	0.324	2.196	
		37-38	1.80	5	0.324	2.700	
		45-39	3.30	13	0.495	4.290	
		39-49	7.05	9	1.480	8.385	
		40-41	3.25	9	0.683	5.525	
		46-40	3.51	5	0.632	5.268	
		41-42	2.75	5	0.495	4.125	
		42-43	1.50	5	0.270	2.250	
		43-44	2.20	5	0.396	3.300	

		45-46	7.53	5	1.355	9.344	
				TOTALE	**49.526**	**337.328**	
Pilastri	**Tipo Mat**	**Fili**	**Altezza [ml]**	**TIPO**	**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	1	3.85	2	1.039	9.240	
		2	3.85	3	0.693	6.930	
		3	3.85	3	0.693	6.930	
		4	3.85	1	0.577	6.160	
		5	3.85	2	1.039	9.240	
		6	3.85	2	1.039	9.240	
		7	3.85	2	1.039	9.240	
		8	3.85	3	0.693	6.930	
		9	3.85	3	0.693	6.930	
		10	3.85	2	1.039	9.240	
		11	3.85	3	0.693	6.930	
		12	3.85	3	0.693	6.930	
		13	3.85	1	0.577	6.160	
		14	3.85	2	1.039	9.240	
		15	3.85	2	1.039	9.240	
		16	3.85	7	1.039	9.240	
		17	3.85	7	1.039	9.240	
		18	3.85	7	1.039	9.240	
		19	3.85	7	1.039	9.240	
		20	3.85	1	0.577	6.160	
		21	3.85	2	1.039	9.240	
		22	3.85	15	1.155	10.010	
		23	3.85	7	1.039	9.240	
		24	3.85	7	1.039	9.240	
		25	3.85	7	1.039	9.240	
		26	3.85	7	1.039	9.240	
		27	3.85	3	0.693	6.930	
		28	3.85	12	0.462	5.390	
		29	3.85	3	0.693	6.930	
		30	3.85	3	0.693	6.930	
		31	3.85	2	1.039	9.240	
		32	3.85	4	0.347	4.620	
		33	3.85	4	0.347	4.620	
		34	3.85	7	1.039	9.240	
		35	3.85	7	1.039	9.240	
		36	3.85	12	0.462	5.390	
		37	3.85	4	0.347	4.620	
		38	3.85	4	0.347	4.620	
		39	3.85	7	1.039	9.240	
		41	3.85	3	0.693	6.930	
		42	3.85	3	0.693	6.930	
		43	3.85	3	0.693	6.930	
		44	3.85	2	1.039	9.240	
		45	3.85	3	0.693	6.930	
		46	3.85	3	0.693	6.930	
		50	3.85	3	0.693	6.930	
				TOTALE	**37.422**	**355.740**	
Pareti	**Tipo Mat**	**Fili**	**Luce [ml]**		**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	40-49	2.20		2.541	19.250	
				TOTALE	**2.541**	**19.250**	
Totali	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				89.489	712.318	
				TOTALE	**89.489**	**712.318**	

Piano 1

Travi	Tipo Mat	Fili	Luce [ml]	TIPO	Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1	1-2	4.55	5	0.819	5.553	
		1-7	2.75	5	0.495	4.125	
		2-3	3.45	5	0.621	4.203	
		2-8	2.75	14	0.330	2.695	
		3-4	3.20	5	0.576	4.800	
		3-9	2.75	14	0.330	1.963	
		4-5	2.95	5	0.531	4.425	
		4-13	5.80	9	1.218	6.932	
		5-6	4.00	5	0.720	6.000	
		5-14	5.80	9	1.218	6.932	
		6-15	5.80	9	1.218	8.396	
		7-8	4.55	5	0.819	5.553	
		7-10	2.75	5	0.495	3.393	
		8-9	3.45	5	0.621	3.231	
		8-11	2.75	5	0.495	4.125	
		9-12	2.75	5	0.495	3.393	
		10-11	4.55	5	0.819	6.825	
		10-16	2.75	5	0.495	3.321	
		11-12	3.40	5	0.612	4.104	
		12-13	2.95	14	0.354	2.891	
		12-17	2.75	5	0.495	3.393	
		13-14	2.95	5	0.531	4.425	
		13-20	5.80	9	1.218	6.932	
		14-15	4.00	5	0.720	6.000	
		14-21	5.80	9	1.218	6.932	
		15-22	5.80	9	1.218	8.396	
		16-18	2.75	5	0.495	3.321	
		17-19	2.75	5	0.495	3.393	
		18-23	2.75	5	0.495	3.321	
		19-20	2.85	14	0.342	2.793	
		19-24	2.75	5	0.495	3.393	
		20-21	2.90	5	0.522	4.350	
		20-27	5.80	9	1.218	6.932	
		21-29	5.80	9	1.218	6.932	
		21-50	0.90	5	0.162	1.350	
		22-31	5.80	9	1.218	8.396	
		50-22	2.45	5	0.441	3.675	
		23-25	2.75	5	0.495	3.321	
		24-26	2.75	5	0.495	3.393	
		25-34	2.85	5	0.513	3.447	
		26-27	3.00	14	0.360	2.940	
		26-35	2.85	5	0.513	3.519	
		28-27	0.90	13	0.135	0.834	
		27-36	3.90	5	0.702	4.842	
		29-28	1.45	13	0.218	1.345	
		32-28	1.80	5	0.324	2.196	
		29-30	1.50	5	0.270	2.250	
		29-33	1.80	5	0.324	2.196	
		30-31	2.20	5	0.396	3.300	
		43-30	6.00	9	1.260	8.688	
		31-44	6.00	9	1.260	8.688	
		32-33	1.80	5	0.324	2.700	
		32-37	1.80	5	0.324	2.700	
		33-38	1.80	5	0.324	2.700	
		34-39	2.85	5	0.513	4.275	
		35-40	3.00	5	0.540	3.747	
		37-36	1.15	13	0.172	1.135	
		36-41	1.80	5	0.324	2.196	
		37-38	1.80	5	0.324	2.700	
		45-39	3.30	13	0.495	4.290	
		39-49	7.05	5	1.269	8.775	

		41-40	3.25	9	0.683	5.525	
		46-40	3.51	13	0.527	4.565	
		41-42	2.65	5	0.477	3.975	
		42-43	1.50	5	0.270	2.250	
		43-44	2.20	5	0.396	3.300	
		45-46	7.53	13	1.130	7.838	
				TOTALE	**41.138**	**290.425**	
Pilastri	**Tipo Mat**	**Fili**	**Altezza [ml]**	**TIPO**	**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	1	3.85	2	1.039	9.240	
		2	3.85	3	0.693	6.930	
		3	3.85	3	0.693	6.930	
		4	3.85	1	0.577	6.160	
		5	3.85	17	1.039	9.240	
		6	3.85	2	1.039	9.240	
		7	3.85	2	1.039	9.240	
		8	3.85	3	0.693	6.930	
		9	3.85	3	0.693	6.930	
		10	3.85	2	1.039	9.240	
		11	3.85	3	0.693	6.930	
		12	3.85	2	1.039	9.240	
		13	3.85	1	0.577	6.160	
		14	3.85	2	1.039	9.240	
		15	3.85	2	1.039	9.240	
		16	3.85	7	1.039	9.240	
		17	3.85	7	1.039	9.240	
		18	3.85	7	1.039	9.240	
		19	3.85	7	1.039	9.240	
		20	3.85	3	0.693	6.930	
		21	3.85	2	1.039	9.240	
		22	3.85	15	1.155	10.010	
		23	3.85	7	1.039	9.240	
		24	3.85	7	1.039	9.240	
		25	3.85	7	1.039	9.240	
		26	3.85	7	1.039	9.240	
		27	3.85	3	0.693	6.930	
		28	3.85	12	0.462	5.390	
		29	3.85	3	0.693	6.930	
		30	3.85	3	0.693	6.930	
		31	3.85	2	1.039	9.240	
		32	3.85	4	0.347	4.620	
		33	3.85	4	0.347	4.620	
		34	3.85	7	1.039	9.240	
		35	3.85	7	1.039	9.240	
		36	3.85	12	0.462	5.390	
		37	3.85	4	0.347	4.620	
		38	3.85	4	0.347	4.620	
		39	3.85	2	1.039	9.240	
		41	3.85	16	0.808	7.700	
		42	3.85	3	0.693	6.930	
		43	3.85	3	0.693	6.930	
		44	3.85	2	1.039	9.240	
		45	3.85	3	0.693	6.930	
		46	3.85	3	0.693	6.930	
		50	3.85	3	0.693	6.930	
				TOTALE	**38.000**	**359.590**	
Pareti	**Tipo Mat**	**Fili**	**Luce [ml]**		**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	4-5	2.95		2.876	19.175	
		5-6	4.00		3.900	26.000	
		40-49	2.20		2.541	19.250	

				TOTALE	**9.317**	**64.425**	
Totali	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				88.455	714.439	
				TOTALE	**88.455**	**714.439**	

Fondazione

Travi	Tipo Mat	Fili	Luce [ml]	TIPO	Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls2	1-2	5.30	6	3.816	12.720	
		1-7	3.05	6	2.196	7.320	
		2-3	4.05	6	2.916	9.720	
		2-8	3.05	6	2.196	7.320	
		3-4	3.75	6	2.700	9.000	
		3-9	3.05	6	2.196	7.320	
		4-5	3.65	6	2.628	8.760	
		4-13	6.10	6	4.392	14.640	
		5-6	4.90	6	3.528	11.760	
		5-14	6.10	6	4.392	14.640	
		6-15	6.10	6	4.392	14.640	
		7-8	5.30	6	3.816	12.720	
		7-10	3.05	6	2.196	7.320	
		8-9	4.05	6	2.916	9.720	
		8-11	3.05	6	2.196	7.320	
		12-9	3.05	6	2.195	7.315	
		10-11	5.30	6	3.816	12.720	
		10-16	3.05	6	2.196	7.320	
		11-12	4.15	6	2.988	9.960	
		12-13	3.65	6	2.628	8.760	
		12-17	3.05	6	2.196	7.320	
		13-14	3.65	6	2.628	8.760	
		13-20	6.10	6	4.392	14.640	
		14-15	4.90	6	3.528	11.760	
		14-21	6.10	6	4.392	14.640	
		15-22	6.10	6	4.392	14.640	
		16-17	9.50	6	6.840	22.800	
		16-18	3.05	6	2.196	7.320	
		17-19	3.05	6	2.196	7.320	
		18-19	9.50	6	6.840	22.800	
		18-23	3.05	6	2.196	7.320	
		19-20	3.60	6	2.592	8.640	
		19-24	3.05	6	2.196	7.320	
		20-21	3.65	6	2.628	8.760	
		20-47	3.05	6	2.197	7.322	
		21-22	4.90	6	3.528	11.760	
		21-48	3.05	6	2.197	7.322	
		22-31	6.10	6	4.392	14.640	
		23-24	9.50	6	6.840	22.800	
		23-25	3.05	6	2.196	7.320	
		24-26	3.05	6	2.196	7.320	
		24-47	3.53	6	2.538	8.460	
		25-26	9.50	6	6.840	22.800	
		25-34	3.15	6	2.268	7.560	
		26-27	3.75	6	2.700	9.000	
		26-35	3.15	6	2.268	7.560	
		27-28	1.40	6	1.008	3.360	
		27-36	4.20	6	3.024	10.080	
		47-27	3.05	6	2.196	7.320	
		28-29	1.95	6	1.404	4.680	
		29-30	2.10	6	1.512	5.040	
		29-33	2.10	6	1.512	5.040	
		48-29	3.05	6	2.196	7.320	

		30-31	2.95	6	2.124	7.080	
		30-43	6.30	6	4.536	15.120	
		31-44	6.30	6	4.536	15.120	
		32-33	2.10	6	1.512	5.040	
		32-37	2.10	6	1.512	5.040	
		33-38	2.10	6	1.512	5.040	
		34-35	9.50	6	6.840	22.800	
		34-39	3.15	6	2.268	7.560	
		35-40	3.00	6	2.160	7.200	
		36-37	1.50	6	1.080	3.600	
		36-41	2.10	6	1.512	5.040	
		37-38	2.10	6	1.512	5.040	
		38-42	2.10	6	1.512	5.040	
		39-45	3.60	6	2.592	8.640	
		39-49	7.50	6	5.400	18.000	
		40-41	3.60	6	2.592	8.640	
		49-40	2.20	6	1.584	5.280	
		41-42	3.30	6	2.376	7.920	
		42-43	2.10	6	1.512	5.040	
		43-44	2.95	6	2.124	7.080	
		45-46	8.13	6	5.854	14.634	
		46-49	3.80	6	2.734	6.834	
		47-48	3.80	6	2.736	9.120	
				TOTALE	**224.641**	**741.648**	
Platee	**Tipo Mat**	**Fili**	**Spessore [ml]**		**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls2	45-46-49-44-6-1	0.60		338.108		
				TOTALE	**338.108**		
Totali	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls2				562.749	741.648	
				TOTALE	**562.749**	**741.648**	

Totale Struttura

	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				273.175	2185.307	
	Cls2				562.749	741.648	
				TOTALE	**835.923**	**2926.955**	**0.000**

CONTABILITÀ SOLAI E BALCONI

NUOVO PLESSO SCOLASTICO

Contabilità Solai e Balconi

Piano 4

latero cemento	Tipo Sol	Fili	Area [m²]
	1	38-37-32-33-29-27-41-42	15.1
		33-32-37-38	3.2
		42-43-30-29-33-38	10.8
		29-48-47-27	8.3
		48-21	6.5
		29-48	6.5
		TOTALE	**50.4**
Totali			Area [m²]
		latero cemento	50.4
		TOTALE	**50.4**

Piano 3

latero cemento	Tipo Sol	Fili	Area [m²]
	1	21-22-15-14	27.4
		30-31-22-21-29	27.4
		6-5-14-15	26.7
		13-14-5-4	19.4
		20-21-14-13	19.4
		27-29-21-20	19.9
		26-27-20-19-24	18.5
		19-20-13-12-17	18.5
		12-13-4-3-9	18.9
		9-8-11-12	11.1
		3-2-8-9	9.9
		2-1-7-8	13.5
		36-27-26-35-40-41	19.2
		26-25-34-35	26.2
		24-23-25-26	25.3
		19-18-23-24	25.3
		17-16-18-19	25.3
		12-11-10-16-17	25.2
		8-7-10-11	13.3
		43-44-31-30	15.0
		37-32-28-27-36	4.9
		29-28-32-33	3.2
		40-35-34-39-49	26.5
		27-36	4.7
		29-28	2.6
		TOTALE	**447.4**
Totali			Area [m²]
		latero cemento	447.4
		TOTALE	**447.4**

Piano 2

latero cemento	Tipo Sol	Fili	Area [m²]
	1	21-22-15-14	27.4
		30-31-22-21-29	27.4
		6-5-14-15	26.7
		13-14-5-4	19.4
		20-21-14-13	19.4
		27-29-21-20	19.9
		26-27-20-19-24	18.5
		19-20-13-12-17	18.5
		12-13-4-3-9	18.9
		9-8-11-12	11.1
		3-2-8-9	9.9
		2-1-7-8	13.5

		36-27-26-35-40-41	19.2
		26-25-34-35	26.2
		24-23-25-26	25.3
		19-18-23-24	25.3
		17-16-18-19	25.3
		12-11-10-16-17	25.2
		43-44-31-30	15.0
		28-27-36-37-32	4.9
		29-28-32-33	3.2
		40-35-34-39-49	26.5
		40-49-39-45-46	26.6
		29-28	2.6
		TOTALE	**456.0**
Totali			Area [m²]
		latero cemento	456.0
		TOTALE	**456.0**

Piano 1

latero cemento	Tipo Sol	Fili	Area [m²]
	1	21-22-15-14	27.4
		30-31-22-21-29	27.4
		6-5-14-15	26.7
		13-14-5-4	19.4
		20-21-14-13	19.4
		27-29-21-20	19.9
		26-27-20-19-24	18.5
		19-20-13-12-17	18.5
		12-13-4-3-9	18.9
		9-8-11-12	11.1
		3-2-8-9	9.9
		2-1-7-8	13.5
		36-27-26-35-40-41	19.4
		43-44-31-30	15.0
		37-32-28-27-36	4.9
		29-28-32-33	3.2
		46-40-49-39-45	26.6
		7-10	4.3
		10-16	4.7
		16-18	4.7
		18-23	4.7
		23-25	4.7
		25-34	4.9
		29-28	2.6
		TOTALE	**330.4**
Totali			Area [m²]
		latero cemento	330.4
		TOTALE	**330.4**

Totale Struttura

	Tipo Sol		Area [m²]
latero cemento	1		1284.1
		TOTALE	**1284.1**

CONTABILITÀ CLS

LOCALE TECNICO

Contabilità Cls

Piano 1

Pareti	Tipo Mat	Fili	Luce [ml]		Volume [m³]	Sup.Carp. [m²]	
	Cls1	2-1	1.80		1.620	12.600	
		1-8	6.40		5.760	40.200	
		3-2	2.95		2.655	19.500	
		2-5	3.50		2.570	20.760	
		4-3	3.45		3.105	22.500	
		6-3	3.50		3.150	22.800	
		7-4	3.50		3.150	22.800	
		5-6	2.95		2.655	19.500	
		5-9	2.90		2.030	17.160	
		6-7	3.45		3.105	22.500	
		10-6	2.90		2.610	19.200	
		11-7	2.90		2.610	19.200	
		9-10	2.95		2.655	19.500	
		10-11	3.45		3.105	22.500	
				TOTALE	**40.779**	**300.720**	
Platee	**Tipo Mat**	**Fili**	**Spessore [ml]**		**Volume [m³]**	**Sup.Carp. [m²]**	
	Cls1	9-11-7-4-3-2-5	0.30		10.614	35.380	
				TOTALE	**10.614**	**35.380**	
Totali	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				51.393	336.100	
				TOTALE	**51.393**	**336.100**	

Fondazione

Platee	Tipo Mat	Fili	Spessore [ml]		Volume [m³]	Sup.Carp. [m²]	
	Cls1	8-11-4-1	0.30		15.744		
				TOTALE	**15.744**		
Totali	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				15.744	0.000	
				TOTALE	**15.744**	**0.000**	

Totale Struttura

	Tipo Mat				Volume [m³]	Sup.Carp. [m²]	Magro [m³]
	Cls1				67.137	336.100	
	Cls2				0.000	0.000	
				TOTALE	**67.137**	**336.100**	**0.000**

CONTABILITÀ FERRI

LOCALE TECNICO

Contabilità Ferri

Piano 1

Pareti	Tipo Mat	Diametro [mm]	Sviluppo [ml]	Peso [daN]
	Barre1	16	2653.3	4187.9
		TOTALE	**2653.3**	**4187.9**
Platee	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	16	760.2	1199.9
		TOTALE	**760.2**	**1199.9**
Totali	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	16	3413.6	5387.8
		TOTALE	**3413.6**	**5387.8**

Fondazione

Platee	Tipo Mat	Diametro [mm]	Sviluppo [ml]	Peso [daN]
	Barre1	16	1021.9	1612.9
		TOTALE	**1021.9**	**1612.9**
Totali	**Tipo Mat**	**Diametro [mm]**	**Sviluppo [ml]**	**Peso [daN]**
	Barre1	16	1021.9	1612.9
		TOTALE	**1021.9**	**1612.9**

Totale Struttura

	Tipo Mat	Diametro [mm]	Sviluppo [ml]	Peso [daN]
	Barre1	16	4435.5	7000.6
		TOTALE	**4435.5**	**7000.6**