

Anexos



7.3 Anexos del Capítulo 4

Tabla A. 1 Longitudes entre los puntos de ensayo del muro 2 (mm)

Material N°	Concreto				Ladrillo				Piedra				Cantería				Adobe			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	652	650	648	647	645	645	645	645	620	615	610	610	614	615	615	617	611	612	612	613
2	650	649	648	647	644	645	645	646	611	615	612	616	618	618	618	618	613	613	613	615
3	648	648	647	646	643	644	644	642	617	610	618	611	617	616	616	615	614	612	612	610
4	647	647	646	646	643	644	644	646	613	619	616	615	618	615	615	618	613	612	612	612
5	646	646	645	645	643	642	642	644	617	616	616	619	614	616	616	613	618	616	616	614
6	645	645	645	645	646	645	645	646	609	631	621	615	611	613	613	611	616	614	614	615
7	645	645	645	645	645	645	645	645	616	650	615	607	615	617	617	617	615	614	614	612
8	645	645	645	645	647	645	645	645	607	623	608	623	618	614	614	615	614	615	615	617
9	645	645	645	645	645	645	645	644	622	605	621	615	619	617	617	614	616	616	616	617
10	645	645	645	645	648	647	647	646	613	611	619	613	617	620	620	618	616	615	615	617
11	645	645	645	645	644	643	643	642	618	613	616	618	618	616	616	615	615	618	618	614

Tabla A. 2 Velocidades de los puntos evaluados en el muro 1 aplicando ensayos sónicos (m/s)

Punto	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	5233	4679	4791	4114	4510	4983	5074	4789	4000	4618	4250	4094	4881	4472	4118
2	5858	4196	4304	3445	3227	2941	3781	2488	3102	3639	2671	2486	3316	3301	3906
3	3898	4474	3918	2819	1942	2169	2153	2554	2411	2423	2544	2589	2335	3018	3968
4	5063	3924	4539	3318	3384	3028	3805	3190	3570	3408	3526	3388	3557	3807	4304
5	4521	5177	4368	3291	3439	2887	3819	3721	3315	2989	2847	2623	3270	3708	3344
6	4161	4285	3795	2792	2231	2247	2220	2428	2328	2326	2451	2312	2274	2643	4185
7	5548	4526	3378	3217	3136	3012	2826	3054	3241	2360	2775	2421	2658	2852	3578
8	4433	4283	3548	3295	3352	3748	3439	3512	3880	3427	3465	3547	3980	3556	4101
9	4471	4007	4108	4095	3986	3594	4555	3813	4440	4340	4230	3959	4095	4047	3888
10	4474	4130	3729	4283	3961	3876	3998	3501	3712	3916	3986	3959	3812	3955	3596
11	4573	4510	3712	4279	4316	3605	3853	3215	3426	2632	2673	3173	3295	3388	3463
12	5430	4866	4481	5760	4757	4731	4462	3997	3979	4337	3974	4659	4832	4312	4753
13	5145	4746	4519	4459	4286	4005	3954	4305	4592	3837	3975	4074	4263	3578	3916
14	4907	4444	4634	3286	3522	2928	3620	3330	3403	3626	3313	3148	3618	2992	3690
15	5714	5008	4356	4019	4167	4363	4117	4350	4575	4110	4909	4135	4353	4790	4452

Tabla A. 3 Velocidades de los puntos evaluados en el muro 1 aplicando ensayos de ultrasonido (m/s)

Punto	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	4971	4942	4877	4849	4791	4748	4766	4791	4755	4746	4748	4818	4809	4681	4782
2	4739	4804	4819	4765	4748	4755	4666	4653	4707	4716	4526	4661	4656	4590	4737
3	4390	4469	4560	4826	4773	4693	4658	4551	4427	4393	4437	4495	4460	4416	4696
4	4360	3994	4574	4877	4753	4649	4599	4582	4322	3913	4207	4268	3946	4311	4701
5	4536	4191	4660	4829	4755	4588	4579	4599	4321	4018	4276	4182	3883	4286	4660
6	4620	4205	4785	4828	4649	4719	4582	4589	4309	3919	4117	4214	4057	4221	4632
7	4673	4106	4765	4913	4549	4693	4728	4590	4247	3906	4206	4237	4002	4168	4570
8	4699	4093	4694	4830	4546	4641	4615	4508	4319	3720	4207	4238	4107	4207	4680
9	4742	4226	4551	4729	4452	4632	4634	4590	4334	3919	4207	4258	3979	4096	4590
10	4775	4323	4550	4720	4402	4712	4764	4589	4319	3924	4303	4395	4104	4124	4474
11	4619	4262	4691	4776	4503	4649	4728	4668	4378	4080	4319	4443	4131	4028	4614
12	4667	4194	4646	4794	4407	4598	4684	4600	4407	4006	4220	4267	4057	4126	4615
13	4587	4127	4576	4756	4438	4604	4725	4680	4435	3971	4199	4387	4098	4145	4631
14	4565	3967	4602	4713	4476	4741	4700	4685	4487	4224	4318	4448	4445	4308	4661
15	4424	4272	4453	4481	4381	4625	4592	4649	4498	4412	4511	4538	4615	4508	4658

Tabla A. 4 Velocidades en el área de concreto (m/s) – muro 2

N°	1	2	3	4
1	4765 (3%)	4405 (3%)	4360 (3%)	4535 (3%)
2	4798 (4%)	4379 (3%)	4541 (3%)	4661 (2%)
3	5017 (3%)	4426 (7%)	4646 (1%)	4696 (1%)
4	4962 (5%)	4408 (1%)	4500 (1%)	4845 (2%)
5	4466 (2%)	4592 (1%)	4691 (1%)	4873 (3%)
6	4683 (3%)	4580 (2%)	4725 (1%)	4870 (2%)
7	4565 (2%)	4674 (1%)	4807 (1%)	5668 (1%)
8	4637 (2%)	4783 (1%)	4841 (2%)	4890 (1%)
9	5130 (6%)	4622 (1%)	4574 (1%)	4882 (2%)
10	4646 (2%)	4612 (1%)	4678 (1%)	4940 (1%)
11	4731 (4%)	4521 (5%)	4879 (1%)	4990 (1%)

Tabla A. 5 Velocidades en el área de albañilería (m/s) – muro 2

N°	1	2	3	4
1	2381 (2%)	2381 (4%)	2323 (2%)	2355 (3%)
2	2241 (5%)	2440 (4%)	2132 (1%)	2027 (5%)
3	2606 (3%)	2484 (3%)	2366 (2%)	2489 (4%)
4	2620 (2%)	2812 (3%)	2736 (1%)	2651 (4%)
5	2868 (4%)	2583 (3%)	2668 (2%)	2610 (3%)
6	2896 (4%)	2712 (3%)	2818 (1%)	2736 (3%)
7	3607 (7%)	3037 (2%)	3218 (2%)	3677 (2%)
8	3078 (6%)	2882 (4%)	3116 (2%)	2630 (3%)
9	2573 (2%)	2772 (4%)	2834 (5%)	2779 (4%)
10	2497 (3%)	2766 (2%)	2828 (3%)	2614 (3%)
11	2979 (4%)	2965 (4%)	2769 (4%)	2509 (3%)

Tabla A. 6 Velocidades en el área de piedra (m/s) – muro 2

N°	1	2	3	4
1	5274 (2%)	4420 (2%)	3933 (3%)	3623 (2%)
2	4409 (5%)	3711 (9%)	4096 (6%)	4129 (3%)
3	3914 (2%)	3471 (5%)	3521 (3%)	4735 (5%)
4	4632 (4%)	4574 (2%)	4510 (2%)	4391 (2%)
5	5199 (6%)	4608 (7%)	3512 (5%)	3797 (4%)
6	4421 (5%)	4352 (2%)	3374 (2%)	3533 (1%)
7	5304 (2%)	4644 (3%)	4038 (5%)	3586 (3%)
8	4249 (4%)	5186 (7%)	4513 (4%)	4484 (4%)
9	5308 (2%)	4547 (1%)	3638 (5%)	4443 (4%)
10	3883 (1%)	4544 (6%)	5235 (4%)	4935 (4%)
11	4406 (4%)	4609 (1%)	5062 (2%)	5179 (5%)

Tabla A. 7 Velocidades en el área de cantería (m/s) – muro 2

N°	1	2	3	4
1	1515 (4%)	1628 (3%)	1654 (2%)	1255 (1%)
2	1730 (2%)	1324 (2%)	1343 (3%)	1591 (3%)
3	1530 (3%)	1762 (2%)	1612 (3%)	1642 (2%)
4	1649 (2%)	1801 (3%)	1792 (2%)	1623 (2%)
5	1708 (3%)	1475 (3%)	1456 (3%)	1692 (2%)
6	1694 (2%)	1557 (2%)	1648 (2%)	1777 (3%)
7	1712 (3%)	1896 (3%)	1905 (3%)	1585 (4%)
8	1947 (3%)	1710 (5%)	1739 (3%)	1673 (3%)
9	1751 (2%)	1853 (3%)	1952 (4%)	1646 (2%)
10	1957 (6%)	1750 (2%)	1772 (4%)	1632 (2%)
11	1855 (2%)	1609 (3%)	1670 (1%)	1790 (2%)

Tabla A. 8 Velocidades en el área de adobe (m/s) – muro 2

N°	1	2	3	4
1	929 (2%)	913 (2%)	950 (1%)	1110 (2%)
2	954 (3%)	991 (1%)	1038 (2%)	1175 (2%)
3	890 (2%)	926 (2%)	994 (1%)	1082 (2%)
4	866 (1%)	829 (3%)	861 (4%)	1145 (3%)
5	899 (2%)	911 (3%)	954 (2%)	1181 (3%)
6	862 (1%)	829 (3%)	852 (2%)	1091 (2%)
7	905 (2%)	1126 (3%)	1151 (2%)	1088 (2%)
8	957 (3%)	1104 (5%)	1158 (5%)	1081 (1%)
9	828 (1%)	1083 (3%)	1106 (4%)	1059 (2%)
10	828 (4%)	759 (5%)	826 (3%)	987 (3%)
11	868 (2%)	786 (2%)	773 (3%)	1058 (2%)

Tabla A. 9 Velocidades ultrasónicas en el área de concreto (m/s) – muro2

N°	1	2	3	4
1	4382 (0.2%)	4391 (0.5%)	4395 (0.1%)	4466 (0.4%)
2	4347 (0.1%)	4369 (0.2%)	4343 (0.5%)	4428 (0.3%)
3	4331 (0.2%)	4349 (0.1%)	4376 (0.1%)	4550 (0.1%)
4	4266 (0.2%)	4224 (0.4%)	4301 (0.2%)	4558 (0.2%)
5	4329 (0.3%)	4189 (0.3%)	4364 (0.6%)	4656 (0.1%)
6	4350 (0.2%)	4337 (0.6%)	4436 (0.5%)	4667 (0.5%)
7	4443 (0.2%)	4329 (0.9%)	4483 (0.1%)	4616 (0.2%)
8	4411 (0.1%)	4421 (0.3%)	4453 (0.2%)	4585 (0.4%)
9	4401 (0.1%)	4345 (0.4%)	4308 (0.3%)	4565 (0.1%)
10	4398 (0.3%)	4402 (0.1%)	4405 (0.2%)	4616 (0.2%)
11	4467 (0.1%)	4393 (0.3%)	4573 (0.2%)	4675 (0.3%)

Tabla A. 10 Velocidades ultrasónicas en el área de ladrillo (m/s) – muro2

N°	1	2	3	4
1	1306 (0.1%)	1443 (2.7%)	1701 (3.5%)	1419 (3.7%)
2	1495 (7.6%)	1245 (1.8%)	1193 (1.4%)	1539 (0.2%)
3	1359 (1.0%)	1671 (0.6%)	1290 (2.5%)	1730 (4.4%)
4	2028 (0.9%)	1519 (0.5%)	1601 (0.8%)	1713 (6.9%)
5	1612 (5.3%)	1140 (0.6%)	1389 (1.7%)	1677 (2.5%)
6	1392 (6.3%)	1242 (0.9%)	1377 (1.2%)	1493 (3.8%)
7	1839 (3.0%)	1612 (0.7%)	2075 (1.1%)	1472 (1.2%)
8	1763 (7.3%)	1746 (1.0%)	1493 (6.4%)	1754 (1.9%)
9	1453 (1.6%)	1477 (0.4%)	1840 (7.7%)	1393 (2.2%)
10	1874 (5.7%)	1299 (0.7%)	1311 (2.2%)	1599 (7.0%)
11	1691 (4.9%)	1875 (1.7%)	1440 (0.2%)	924 (1.0%)

7.4 Anexos del Capítulo 5

Tabla A. 11. Velocidades columna C-1 (m/s)

N°	Lado 1				Lado 2			
	A	B	C	D	A	B	C	D
1	982 (4%)	1261 (1%)	1217 (2%)	1155 (2%)	860 (1%)	1204 (4%)	1104 (5%)	1134 (7%)
2	756 (5%)	831 (1%)	892 (3%)	1362 (4%)	1088 (3%)	1724 (5%)	1324 (5%)	1541 (4%)
3	1165 (5%)	847 (5%)	2155 (6%)	1108 (2%)	1274 (5%)	1680 (6%)	1362 (3%)	1361 (6%)
4	998 (4%)	1241 (1%)	1157 (1%)	1091 (1%)	1220 (7%)	1861 (6%)	1528 (4%)	1365 (8%)
5	1040 (4%)	1283 (3%)	1360 (4%)	1100 (2%)	1397 (4%)	1579 (1%)	1972 (2%)	1284 (4%)
6	1456 (2%)	1842 (3%)	1219 (4%)	1482 (5%)	2172 (4%)	2082 (6%)	2162 (6%)	1815 (1%)

Tabla A. 12 Velocidades columna C-2 (m/s)

N°	Lado 2			
	A	B	C	D
1	1023 (3%)	907 (6%)	964 (8%)	980 (15%)
2	780 (7%)	1079 (8%)	1514 (7%)	1362 (8%)
3	787 (4%)	1162 (3%)	2001 (6%)	965 (6%)
4	705 (5%)	1728 (9%)	1145 (6%)	1439 (5%)
5	1217 (3%)	1017 (2%)	1429 (7%)	2433 (3%)
6	1307 (2%)	2086 (6%)	1359 (5%)	1667 (3%)

Tabla A. 13 Velocidades columna C-3 (m/s)

N°	Lado 1			
	A	B	C	D
1	988 (5%)	1219 (4%)	2243 (5%)	1474 (5%)
2	1154 (1%)	1495 (4%)	2761 (5%)	769 (2%)
3	923 (1%)	1814 (3%)	1297 (4%)	948 (5%)
4	1282 (5%)	850 (4%)	1322 (4%)	567 (4%)
5	977 (6%)	1139 (4%)	1449 (6%)	600 (2%)
6	942 (4%)	1397 (5%)	1249 (4%)	1283 (6%)

Tabla A. 14 Velocidades columna C-4 (m/s)

N°	Lado 1				Lado 2			
	A	B	C	D	A	B	C	D
1	1337 (1%)	2104 (7%)	1798 (4%)	1247 (6%)	1791 (6%)	2420 (3%)	2336 (4%)	1593 (3%)
2	960 (5%)	1169 (5%)	1402 (2%)	679 (9%)	1477 (6%)	1838 (2%)	2155 (5%)	1457 (2%)
3	1083 (6%)	1377 (3%)	1534 (5%)	1963 (7%)	1340 (4%)	1828 (2%)	2018 (1%)	1379 (8%)
4	1272 (4%)	1089 (2%)	1071 (4%)	1070 (7%)	1716 (4%)	2087 (8%)	1730 (2%)	1574 (2%)
5	1057 (5%)	1764 (1%)	1353 (7%)	1076 (7%)	1495 (6%)	2239 (4%)	2298 (7%)	1153 (6%)
6	1092 (2%)	1274 (3%)	1665 (1%)	990 (1%)	1454 (3%)	1928 (4%)	1915 (4%)	1197 (3%)

Tabla A. 15 Velocidades columna C-5 (m/s)

N°	Lado 1				Lado 2			
	A	B	C	D	A	B	C	D
1	1228 (4%)	1271 (3%)	1835 (1%)	1093 (3%)	2666 (5%)	1684 (6%)	2079 (1%)	1966 (5%)
2	1651 (3%)	1590 (1%)	1409 (6%)	1499 (7%)	1570 (3%)	2253 (4%)	1989 (4%)	1809 (5%)
3	1122 (5%)	2377 (2%)	1205 (5%)	1174 (4%)	1230 (2%)	1131 (4%)	1788 (3%)	1071 (5%)
4	930 (2%)	1849 (6%)	1034 (4%)	744 (1%)	1195 (4%)	1595 (6%)	1664 (4%)	1221 (6%)
5	1200 (5%)	1719 (5%)	1468 (4%)	1829 (4%)	1495 (3%)	2354 (6%)	3102 (4%)	1631 (4%)
6	1178 (3%)	1915 (6%)	1392 (3%)	1025 (5%)	617 (4%)	1066 (4%)	1903 (3%)	1170 (5%)

