

Installation of Waterproofing and Protection Geomembranes Executed by CARPI in Tunnels

Updated: JANUARY 2006

Name of tunnel <i>Name of owner</i>	Tunnel			Geomembrane		
	<i>Country</i>	<i>Type</i>	<i>Installation</i>	<i>Type</i>	<i>Thickness mm</i>	<i>Quantity m2</i>
Hnevkov 1 Subterra a.s.	Czech Republic	Railway tunnel	2005	PVC	2.2	4'260
Mala Huba Subterra a.s.	Czech Republic	Railway tunnel	2005	PE	2.2	8'000
Hnevkov 2 Metrostav a.s.	Czech Republic	Railway tunnel	2005	PE	2.2	11'000
Hnevkovsky II Railways National Authority (Metrostav a.s.)	Czech Republic	Railway tunnel	2005	Modified PE	2.0	11'400
Hnevkovsky I Railways National Authority (Subterra a.s.)	Czech Republic	Railway tunnel	2005	PVC	2.0	4'100
Mala Huba Railways National Authority (Subterra a.s.)	Czech Republic	Railway tunnel	2005	Modified PE	2.0	7'800
Krasikov 1 Railways National Authority (Subterra a.s., Metrostav a.s.)	Czech Republic	Railway tunnel	2003/04	Modified PE	2.5	28'556
Krasikov 2 Railways National Authority (Subterra a.s.)	Czech Republic	Railway tunnel	2003/4	Modified PE	2.5	3'444

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Estação da Ameixoeira Metropolitano de Lisboa, EP - Lisbon	Portugal	Subway station	2002	PVC	2,0	6,000
Tuneis da Via Rápida Direção Regional das Estradas de Madeira	Portugal (Madeira)	Road Tunnel	1999-2000	PVC	1.5	33.000
Firenzuola (stretch B) CAVET - Consorzio Alta Velocità - Vaglia (Florence)	Italy	High-speed railway tunnel	1998-2000	PVC	2,0	300,000
Tùnel do Norte Direção Regional das Estradas de Madeira	Portugal (Madeira)	Road Tunnel	1998-2000	PVC	1.5	46.000
Tabua/Tabua Direção Regional das Estradas de Madeira	Portugal (Madeira)	Road Tunnel	1998-1999	PVC	1.5	10.000
Tabua/Ponta do Sol Direção Regional das Estradas de Madeira	Portugal (Madeira)	Road Tunnel	1998-1999	PVC	1.5	12.000
Jardins do Mar Direção Regional das Estradas de Madeira	Portugal (Madeira)	Road Tunnel	1998-1999	PVC	1.5	12.000
Firenzuola (stretch A) CAVET - Consorzio Alta Velocità - Firenzuola (Florence)	Italy	High-speed railway tunnel	1997-2000	PVC	2.0	76.000
Vaglia CAVET - Consorzio Alta Velocità - Vaglia (Florence)	Italy	High-speed railway tunnel	1997-2000	PVC	2,0	187,000

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Gare Oriente Metropolitano de Lisboa, EP - Lisbon	Portugal	Subway tunnel	1997	PVC	2.0	16.500
Alameda Metropolitano de Lisboa, EP - Lisbon	Portugal	Subway tunnel	1997	PVC	2.0	2.000
Cais do Sodré Metropolitano de Lisboa, EP - Lisbon	Portugal	Subway station	1997	PVC	2.0	3.000
Baixa/Chiado Metropolitano de Lisboa, EP - Lisbon	Portugal	Subway station	1995-96	PVC	2.0	12.500
Montjovet Cooperativa Produttori Fontina - Aosta	Italy	Natural tunnels for the Fontina cheese seasoning	1993	PVC	1.5	320
Valpelline Cooperativa Produttori Fontina - Aosta	Italy	Natural tunnels for the Fontina cheese seasoning	1993	PVC	1.5	180
Salerno - Reggio Calabria Cooperativa Gran Sasso - Roma	Italy	Highway tunnel	1989	PVC	2.0	12,900
Champorcher Giordano Freydoz - Aosta	Italy	Road tunnel	1988	PVC	2.0	1.200
Champorcher Giordano Freydoz - Aosta	Italy	Road tunnel (artificial)	1988	PVC	2.0	200

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Variney Geoval S.p.A. - Saint Vincent	Italy	Road tunnel (artificial)	1988	PVC	2.0	600
Variney Geoval S.p.A. - Saint Vincent	Italy	Road tunnel	1988	PVC	2.0	300
S. Mango (Av) Del Favero-Italimpianti-Interal	Italy	Road tunnel (artificial)	1987	PVC	1,5	8,000
S. Mango (Av) Del Favero-Italimpianti-Interal	Italy	Road tunnel	1987	PVC	2,0	7,000
Carnia-Pontebba (lot n. 7) Antonio Della Morte - Napoli	Italy	Highway tunnel	1981	PVC	2,0	70,000
Capo Calavà (highway Messina-Palermo) Geom. Leone Collini - Trento	Italy	Highway tunnel	1977	PVC PE	2.0	22.000
				Polyvinylchloride Polyethylene		