

# Tunnel Projects - Reference List

# **Dätwyler Rubber**



| Country - City         | Project                            | Type / Utilization | Construction | Profile              | Profile width | Quantity of Gasket (m) |
|------------------------|------------------------------------|--------------------|--------------|----------------------|---------------|------------------------|
| Singapore              | Circle Line 902                    | Metro              | 2009-2010    | 1'000'771            | 33 mm         | 44856                  |
| China - Hong Kong      | Tsuen Wan                          | Sewage             | 2009-2010    | 1'001'951/ 1'001'988 | 33 mm         | 195855                 |
| China - Hong Kong      | DSD West Drainage Tunnel           | Sewage             | 2009         | 1003184              | 26 mm         | 33345                  |
| Greece - Thessaloniki  | Metro Thessaloniki                 | Metro              | 2008-2010    | 1000771 CoexSwell    | 33 mm         | 544'400                |
| Switzerland - Biel     | Tunnel Längholz                    | Road               | 2009         | 86-259               | 26 mm         | 125'136                |
| New Zealand - Auckland | Rosedale Ocean Outfall             | Sewage             | 2008-2009    | 86-259               | 26 mm         | 94'440                 |
| India - New Delhi      | AMEL - Airport Metro Express Link  | Metro              | 2008-2009    | 1000771 CoexSwell    | 33 mm         | 179'208                |
| India - New Delhi      | Metro Delhi BC24                   | Metro              | 2008-2009    | 1000771 CoexSwell    | 33 mm         | 317'280                |
| Singapore              | Downtown Extension C905            | Metro              | 2008-2009    | 1000771 CoexSwell    | 33 mm         | 105'225                |
| Turkey - Ankara        | Metro Ankara - Keicioren Section 2 | Metro              | 2008-2009    | 19-820               | 33 mm         | 53'000                 |
| Serbia - Belgrade      | Interceptor Veliko Usce Belgrade   | Water              | 2008-2009    | 86-259               | 26 mm         | 216'601                |
| Russia - Cheliabinsk   | Metro Cheliabinsk                  | Metro              | 2008         | 19-882               | 33 mm         | 25'680                 |
| France - Alençon       | Tunnel Alençon (ENERTHERM)         | Service            | 2008         | 1'000'775            | 29 mm         | 36'800                 |

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|------------------------|---|--------------------|--------------|---|---------------|------------------------|
| USA - Newark           | Edison Force Station Upgrade Sayreville | Sewage             | 2008         | 86-259                                  | 26 mm         | 36'082                 |
| Russia - Moscow        | Mitino Line Extension                   | Metro              | 2008         | 1'001'951                               | 33 mm         | 35'800                 |
| Russia - Kazan         | Metro Kazan                             | Metro              | 2008         | 19-882                                  | 33 mm         | 29'846                 |
| Turkey - Istanbul      | Kadiköy-Kartal                          | Metro              | 2007-2009    | 86-259                                  | 26 mm         | 486'460                |
| Russia - Moscow        | Collector 22/06                         | Sewage             | 2007-2008    | 86-259<br>1'000'119 Hydrophilic Profile | 26 mm         | 18'088                 |
| Russia - Moscow        | Escalator Tunnel                        | Metro              | 2007-2008    | 1'001'951                               | 33 mm         | 10'556                 |
| India - New Delhi      | Metro Delhi BC18                        | Metro              | 2007-2008    | 1'003'184                               | 26 mm         | 277'000                |
| Turkey - Istanbul      | Tunnel Melen 7                          | Water              | 2007-2008    | 86-259                                  | 26 mm         | 129'315                |
| USA - Seattle          | CMT Brightwater                         | Sewage             | 2007-2008    | 1'000'775                               | 29 mm         | 150'000                |
| Switzerland - Thun     | Hochwasserentlastungsstollen Thun       | Storm Water        | 2007-2008    | 19-830<br>19-837 CoexSlide              | 33 mm         | 50'000                 |
| Australia - Brisbane   | NSBT Brisbane                           | Road               | 2007-2008    | 1'001'989 CoexSwell                     | 39 mm         | 450'000                |
| USA - Pittsburgh       | Allegheny River Tunnel                  | Railway            | 2007 - 2008  | 86-259                                  | 26 mm         | 66'000                 |
| USA - Boston           | North Dorchester Bay CSO Tunnel         | Sewage             | 2007 - 2008  | 86-259                                  | 26 mm         | 134'300                |
| Russia - South Siberia | South Siberia                           | -                  | 2007         | 1'000'078 Hydrophilic Profile           | 20 mm         | 11'400                 |
| Russia - Moscow        | Fili Sewer                              | Sewage             | 2007         | 1'000'775                               | 29 mm         | 37'900                 |
| Russia - Moscow        | Metro Moskau - Strogino line 2          | Metro              | 2007         | 1'001'951                               | 33 mm         | 68'800                 |

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|---------------------|---|--------------------|--------------|--|---------------|------------------------|
| Russia - Moscow     | Transtroy Tunnel                          | Sewage             | 2007         | 86-259                                       | 26 mm         | 11'000                 |
| Italy - Bolzano     | Alto Adige - Val Passiria                 | Water              | 2007         | 1'002'990                                    | 20 mm         | 63'000                 |
| Turkey - Istanbul   | Railway Bosphorus Crossing Marmaray Lot 1 | Railway            | 2006-2008    | 1'000'771 CoexSwell                          | 33 mm         | 669'800                |
| Turkey - Istanbul   | Railway Bosphorus Crossing Marmaray Lot 2 | Railway            | 2006-2008    | 1'000'771 CoexSwell                          | 33 mm         | 226'600                |
| Kazakhstan - Almaty | Metro Almaty                              | Metro              | 2006-2008    | 19-882                                       | 33 mm         | 98'000                 |
| Korea - Seoul       | Bundang                                   | Metro              | 2006-2007    | 1'000'771 CoexSwell<br>Double gasket sealing | 33 mm         | 160'000                |
| Turkey - Istanbul   | Ambarli - Sewage Tunnel                   | Sewage             | 2006-2007    | 19-830                                       | 33 mm         | 165'700                |
| Brazil - Sao Paulo  | Metro Sao Paulo - Linha 4 Amarela         | Metro              | 2006-2007    | 19-882                                       | 33 mm         | 348'800                |
| Germany - Munich    | Tunnel Moosach Line U3                    | Metro              | 2006-2007    | 19-882                                       | 33 mm         | 104'000                |
| French - Alençon    | Tunnel Alençon (ENERTHERM)                | Service            | 2006-2007    | 19-820                                       | 33 mm         | 40'000                 |
| Russia- Moscow      | Metro Moskau - Mitino Line 2              | Metro              | 2006-2007    | 19-830                                       | 33 mm         | 129'000                |
| Sweden - Malmö      | Malmö City Tunnel                         | Railway            | 2006-2007    | 19-820<br>1'002'865 CoexSlide                | 33 mm         | 420'000                |
| Canada - Vancouver  | RAV - Vancouver (Canada Line IntransitBC) | Railway            | 2006-2007    | 19-882<br>1'001'082 CoexSwell                | 33 mm         | 185'000                |
| Turkey - Ankara     | Metro Ankara - Keicioren Teil 1           | Metro              | 2006-2007    | 19-820                                       | 33 mm         | 147'000                |
| Singapore           | Circle Line 828                           | Metro              | 2006-2007    | 1'000'771 CoexSwell                          | 33 mm         | 131'500                |
| Russia- Moscow      | Collector no 5 Service Tunnel             | Sewage             | 2006         | 86-259                                       | 26 mm         | 16'700                 |

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|-------------------------|--|--------------------|--------------|---|---------------|------------------------|
| Russia- Moscow          | Airport Tunnel Vnoukovo                            | Metro              | 2006         | 86-259                                  | 26 mm         | 24'000                 |
| Italy - Catanzaro       | Linea Lamezia Catanzaro - Lido - ITALFERR          | Railway            | 2006         | 1'001'623                               | 33 mm         | 98'000                 |
| Russia - Moscow         | Metro Moskau - Strogino line 1                     | Metro              | 2006         | 19-830                                  | 33 mm         | 26'900                 |
| Ukraine - Kiev          | Metro Kiev   | Metro              | 2005-2007    | 1000119 Hydrophilic Profile             | 20 mm         | 500'000                |
| Singapore               | Circle Line 856                                    | Metro              | 2005-2007    | 1'000'771 CoexSwell                     | 33 mm         | 300'000                |
| USA - Indianapolis      | Indy CSO Project                                   | Storm Water        | 2005-2006    | 1'000'775                               | 29 mm         | 14'400                 |
| Iran - Esfahan          | Metro Esfahan                                      | Metro              | 2005-2006    | 19-830                                  | 33 mm         | 292'000                |
| Turkey - Istanbul       | Metro Istanbul - Otogar - Bagcilar                 | Metro              | 2005-2006    | 86-259                                  | 26 mm         | 335'000                |
| Germany                 | Katzenberg, Railway DB                             | Railway            | 2005-2006    | 1'001'681                               | 44 mm         | 850'000                |
| Singapore               | Circle Line 855                                    | Metro              | 2005-2006    | 1'000'771 CoexSwell                     | 33 mm         | 350'000                |
| Singapore               | Circle Line 854                                    | Metro              | 2005-2006    | 1'000'771 CoexSwell                     | 33 mm         | 430'000                |
| Iran - Shiraz           | Metro Shiraz                                       | Metro              | 2005         | 19-830                                  | 33 mm         | 300'000                |
| Singapore               | Circle Line 853                                    | Metro              | 2004-2006    | 1'000'771 CoexSwell                     | 33 mm         | 220'000                |
| Singapore               | Circle Line 852                                    | Metro              | 2004-2005    | 1'000'771 CoexSwell                     | 33 mm         | 150'000                |
| Malaysia - Kuala Lumpur | SMART Project, North and South Tunnel Kuala Lumpur | Storm Water / Road | 2004-2005    | 19-882, CoexSlide Profil-Nr. and T-bars | 33 mm         | 550'000                |
| USA - Columbus          | BWARI Project, Columbus / Ohio                     | Sewage             | 2004         | 1'000'775                               | 29 mm         | 200'000                |

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|-----------------------|--------------------------------------|--------------------|--------------|-------------------------------|---------------|------------------------|
| Austria               | Schacht Paierdorf                    | Metro              | 2004         | 1'001'681                     | 44 mm         | 3'000                  |
| Austria - Vienna      | Metro Vienna, Line 2 „Stadion“       | Metro              | 2004         | 19-882                        | 33 mm         | 70'000                 |
| Switzerland - Tessin  | Maroggia Tunnel, Railway SBB, Tessin | Railway            | 2004         | Renovation Profile 19-978     | 147.8 mm      | 2'000                  |
| Austria - Vienna      | Wiental-Sammelkanal WSKE             | Sewage             | 2004         | 19-916, Double gasket sealing | 50 mm         | 450'000                |
| Singapore             | Circle Line 823                      | Metro              | 2003-2007    | 1'000'771 CoexSwell           | 33 mm         | 120'000                |
| Singapore             | Upper Thomson Link                   | Road               | 2003-2006    | 1'000'119 Hydrophilic Profile | 20 mm         | 380'000                |
| Singapore             | Seraya Cable Tunnel                  | Cable              | 2003-2004    | 1'001'050 CoexSwell           | 29 mm         | 100'000                |
| Singapore             | Circle Line 822                      | Metro              | 2003-2004    | 1'000'771 CoexSwell           | 33 mm         | 150'000                |
| Canada - Edmonton     | LRT Tunnel                           | Railway            | 2003-2004    | 1'001'461                     | 47 mm         | 30'000                 |
| Italy - Bologna       | Railway Network Milano - Napoli      | Railway            | 2003-2004    | 19-820                        | 33 mm         | 600'000                |
| Italy - Torino        | Metro Torino Lot 5                   | Metro              | 2003/2004    | 1'001'512 CoexSwell           | 33 mm         | 100'000                |
| Switzerland - Brunnen | Axentunnel Brunnen, Railway SBB      | Railway            | 2003         | Renovation Profile 19-978     | 147.8 mm      | 3'000                  |
| Singapore             | Marina Line, C 825, Metro            | Metro              | 2002-2004    | 1'000'771 CoexSwell           | 33 mm         | 100'000                |
| Italy - Torino        | Metro Torino Lot 3&4                 | Metro              | 2002-2004    | 1'000'775                     | 29 mm         | 170'000                |
| Singapore             | Kim Chuang Sewer Link                | Sewage             | 2002-2003    | 86-259                        | 26 mm         | 130'000                |
| Irland - Dublin       | Dublin Port Tunnel                   | Road               | 2002-2003    | 1'00'078 Hydrophilic Profile  | 20 mm         | -                      |

| Country - City          | Project  | Type / Utilization | Construction | Profile                                 | Profile width  | Quantity of Gasket (m) |
|-------------------------|--|--------------------|--------------|---|----------------|------------------------|
| Singapore               | Marina Line, C 824, Metro                      | Metro              | 2002-2003    | 1'000'771 CoexSwell                     | 33 mm          | 80'000                 |
| Austria - Vienna        | Metro Vienna, U 2/5 „Kagraner Platz“           | Metro              | 2002         | 19-916                                  | 50 mm          | 40'000                 |
| Greece - Athens         | Metro Peristeri, Sepolia                       | Metro              | 2002         | 19-882 CoexSlide                        | 33 mm          | 200'000                |
| Switzerland             | Oenzberg Tunnel, Railway SBB                   | Railway            | 2002         | 86-259<br>86-263 CoexSlide              | 26 mm<br>26 mm | 20'000                 |
| Italy                   | Monte Zuccho, Railway                          | Railway            | 2001         | 19-830                                  | 33 mm          | 120'000                |
| Singapore               | DTSS T-06 „Queensway“                          | Sewage             | 2001         | 86-259<br>1'00'078 Hydrophilic Profile  | 26 mm          | 30'000                 |
| Singapore               | DTSS T-05 „Kranji“                             | Sewage             | 2001         | 1000516 CoexSwell                       | 37 mm          | 400'000                |
| Singapore               | DTSS T-04 „Ang Mo Kio“                         | Sewage             | 2001         | 86-259<br>1'00'078 Hydrophilic Profile  | 26 mm          | 250'000                |
| Switzerland - Sörenberg | Transit Gas Tunnel                             | Service            | 2000         | 19-847<br>1'000'486 CoexSlide           | 20 mm          | -                      |
| Switzerland - Zürich    | Metro Unique Airport, Zürich, Passenger Tunnel | Metro              | 1999/2000    | 19-882                                  | 33 mm          | -                      |
| Hong Kong               | Tsing Tsuen Tunnel                             | Railway            | 1999         | 19-830<br>1'000'119 Hydrophilic Profile | 33 mm          | -                      |
| Switzerland - Zürich    | Tunnel Zürich-Thalwil, Railway SBB             | Railway            | 1999         | 86-259                                  | 26 mm          | -                      |
| Singapore               | Changi Airport Line C 503                      | Metro              | 1999         | 86-259                                  | 26 mm          | -                      |
| Egypt - Kairo           | Maadi Rock                                     | Sewage             | 1999         | 19-882                                  | 33 mm          | -                      |
| Switzerland - Zürich    | Metro Unique Airport, Zürich, Baggage Tunnel   | Metro              | 1998/1999    | 19-882<br>86-227                        | 33 mm<br>33 mm | -                      |
| Singapore               | Metro Rail Transit C 704                       | Metro              | 1998/1999    | 86-259<br>86-263 CoexSlide              | 26 mm<br>26 mm | -                      |

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|--------------------------|-------------------------------------|--------------------|--------------|----------------------------|----------------|------------------------|
| Netherlands - Rotterdam  | Botlek Hoogvliet                    | Railway            | 1998         | 86-260<br>86-258 CoexSlide | 35 mm<br>35 mm | -                      |
| Switzerland - Murgenthal | Tunnel Murgenthal                   | Railway            | 1998         | 19-882                     | 33 mm          | -                      |
| Germany - Düsseldorf     | City Railway Düsseldorf             | Railway            | 1997-1998    | 19-749                     | 33 mm          | -                      |
| Switzerland - Zürich     | Glatt sewerage tunnel               | Sewage             | 1997-1998    | 19-749                     | 33 mm          | -                      |
| Netherlands - Rotterdam  | Conduction Tunnel Oude Maas         | -                  | 1997-1998    | 19-749<br>86-227           | 33 mm          | -                      |
| Australia - Sydney       | Southern Railway Link               | Railway            | 1996-1998    | 19-882                     | 33 mm          | -                      |
| Netherlands - Rotterdam  | Heinenoord Tunnel                   | Road               | 1996-1997    | 19-749                     | 33 mm          | -                      |
| Switzerland - Bellinzona | Consorzio Svitto Tunnel             | -                  | 1996         | 19-882                     | 33 mm          | -                      |
| Switzerland - Burgdorf   | Burgdorf Tunnel                     | Railway            | 1996         | 19-882                     | 33 mm          | -                      |
| France - Paris           | VL 10 Tunnel                        | -                  | 1996         | 19-847                     | 20 mm          | -                      |
| Germany - Nürnberg       | Pegnitztalsammler Tunnel            | Sewage             | 1996         | 19-749                     | 33 mm          | -                      |
| Spain - Madrid           | Barajas Airport cable tunnel        | Cable              | 1995-1996    | 86-212                     | 22 mm          | -                      |
| Hong Kong                | SSDS, Outfall, Stage 1              | Sewage             | 1995-1996    | 19-749                     | 33 mm          | -                      |
| Germany - Munich         | Munich underground railway, Line U2 | Metro              | 1994-1995    | 19-916                     | 50 mm          | -                      |
| France - Lille           | Metro-Tunnel Lille, Line 2          | Metro              | 1994-1995    | 19-882                     | 33 mm          | -                      |
| Germany - Cologne        | Cologne urban railway tunnel, M1    | Railway            | 1992-1993    | 19-882                     | 33 mm          | -                      |

| Country - City       | Project                        | Type / Utilization | Construction | Profile            | Profile width | Quantity of Gasket (m) |
|----------------------|--------------------------------|--------------------|--------------|--------------------|---------------|------------------------|
| France - Strasbourg  | Tramway de Strasbourg Tunnel   | Metro              | 1992         | 19-830             | 33 mm         | -                      |
| Switzerland - Murten | Les Vignes Tunnel              | Road               | 1989-1990    | 19-749             | 33 mm         | -                      |
| England - Dover      | Channel Tunnel T2              | Railway            | 1988-1991    | 19-734 / 734 / 740 | -             | -                      |
| England - Dover      | Channel Tunnel T3              | Railway            | 1988-1991    | 19-734 / 734 / 740 | -             | -                      |
| England - Dover      | Channel Tunnel T1              | Railway            | 1988-1990    | 19-734 / 734 / 740 | -             | -                      |
| England - Dover      | Channel Tunnel T5              | Railway            | 1988-1990    | 19-734 / 734 / 740 | -             | -                      |
| England - Dover      | Channel Tunnel T6              | Railway            | 1988-1990    | 19-734 / 734 / 740 | -             | -                      |
| England - Dover      | Channel Tunnel T4              | Railway            | 1988-1989    | 19-734 / 734 / 740 | -             | -                      |
| Switzerland - Basel  | Heuwaagestollen (Pro Rheno AG) | Sewage             | 1983/1984    | 19-503             | 33 mm         | -                      |