



# References



# Polarteknik Door Systems

## References



### Adtranz

- Gardemoen airport express train
  - 300 doors delivered
- B5 renovation
  - 110 doors delivered
- X2000 High Speed Train
  - 800 doors delivered



### Alstom, Australia

- Alstom Xtrapolis Melbourne
  - 75 Fire partitions E30-I15 and door system
  - Deliveries starting 2023–



### Alstom, France

- SM4 local trains operating in Finland
  - 120 doors delivered
- Regional trains operating in France, Switzerland, Algeria and Senegal
  - 2500 doors delivered 2011–2021
- Metro project in middle east
  - EW20 full glass partitions



### Alstom, France

- NTV trains operating in Italy
  - 275 complete partition walls



### Alstom, France

- Avelia TGV2020
  - 26 doors per trainset, deliveries 2022–
- DSB Coradia Denmark
  - 10 door types per train, deliveries 2023–



### Alstom, Germany

- The X40 train
  - Curved and standard doors for the double-decker train
  - 820 doors delivered
- The X60 Train
  - 230 pcs full E15 partitions
- Cologne tram
  - 124 gangway curtains (2023)



### Alstom, Italy

- Pendolino SM3 trains operating in Finland
  - 450 doors delivered
- New Pendolino (SBB, PKP)
  - 830 doors delivered since 2014
- ETR675 in Italy
  - 285 doors delivered
  - Additional 4 trainsets in 2020



### Alstom, Mexico

- Alstom Tren Maya
  - 16 different assemblies per train
  - Total 580 doors
  - Deliveries starting 2023



### Alstom, Spain

- Alstom Renfe CCG
  - 456 Cassettes with manual doors E15
  - Deliveries 2023–



### Bombardier, France

- TER 2NG gangway doors
  - 490 doors delivered
- Omneo Normandy and CVDL
  - 1200 doors delivered by 2022
  - 170 doors in delivery 2023–



### Bombardier, UK

- Electrostar train projects: Govia, Connex, C2C, Southern, others...
- Turbostar train projects: Scotrail, Chiltern, GoAhead, others...
- Over 10.000 doors delivered
- Aventra West midlands
  - 200 doors delivered in 2019–2020



### Bombardier, UK

- Gautrain trains operating in South Africa
  - 150 doors delivered
- LERL trains

## Various integrators and operators, new and refurbishments



- Curved, telescopic, 1-leaf, 2-leaf, electric manual
- 3 050 doors delivered



### CAF, Spain

- Internal doors for Algeria, Turkey, ATPRD, TEMD/TDMD, NIR, Saudi, S-598, Cerdena, SAR, Caledonia, Transpennine, Norway Flytoget, Etihad, NSW Australia
- 4260 doors delivered by 2026



### CAF, UK

- West midlands
- 160 doors delivered
- Wales and Borders
- 260 doors delivered



### Hitachi, Japan/UK

- Class 395 operating in UK – 300 doors
- Dubai Palm island monorail
- IEP/TPE/Hull/WoE/ECML total 4700 of GW Fire, Saloon and vestibule doors in deliveries 2014–2022
- ASR 520pcs by 2018
- EMU TRA
- 2300 doors deliveries 2021–



### Hitachi Rail Italy

- Zefiro V300 (Ansaldo Breda)
- 1 450 doors delivered by 2018
- ETR1000 ILSA
- 190 additional doors 2021–



### MAV-Start, Hungary

- 450 gangway and saloon door mechanisms delivered by 2021
- Integration partner Jármi Zrt
- IC+ Phase 2 starting 2022



### Rotem, Korea

- Internal doors for trains operating in Ireland
- 510 doors delivered in 2005
- 80 additional doors in 2021



### Siemens, Austria

- RIC sleeping car
- 800 doors delivered by 2014
- Nightjet/Railjet
- 420 doors delivered 2021–
- Vienna Metro UBX
- 90 partitions delivered by 2022



### Siemens, Czech

- České dráhy CD50
- Body end doors delivered in 2020
- České dráhy CD182
- 710 doors to be delivered 2022–



### Siemens ICE4, Germany

- ICE4 trains operating in Germany
- 220 Trainsets over 9000 doors delivered 2013–2022



### Siemens, Germany

- Siemens CRH3 trains operating in China and Russia
- 1 900 doors delivered
- Desiro Scotland
- 480 doors delivered
- Desiro HC
- RRX 97 partitions delivered
- FST/Donau – 50 to be delivered



### Siemens, USA

- Viarail Canada
- 190 doors in 2020–2021
- Virgin Trains USA
- 35 doors in 2020–2021
- Brightline Florida
- 40 doors in 2023–2024



### Stadler, Belarus

- Metro Minsk
- 20 Driver cabin back partitions 2019–2020
- Flirt Slovenia
- 42 Saloon partitions 2021–

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## References



### Stadler, Czech

- Metro Minsk
  - E145 driver cabin partitions 2019
  - 20 units in 2019
- ÖBB KISS DD
  - Part of a contract for 186 trains
  - Gangway and saloon doors
  - Deliveries starting 2023–



### Stadler, Poland

- Train operating in Estonia
  - 80 Light partition walls delivered 2013
- Train operating in Poland
  - 540 Doors and partitions delivered 2015
  - 120 additional doors in 2020–2021
- KISS Slovenia – 40 doors in 2021
- RFI/ADIF Flirt EMU
  - 32 partition walls by 2023



### Stadler, Spain

- Stadler Renfe HC regional trains
  - Up to 920 gangway doors
  - Deliveries in 2023–2026



### Stadler, Switzerland

- EC250 full partitions
  - 1160 Door deliveries starting 2016
- Wales and Borders
  - 70 Gangway cassettes 2020–2021
- BLS Switzerland – 25 cassettes and 150 doors 2019–2022
- MGB Orion EMU
  - 25 partitions in 2022–



### Talgo, Spain

- High Speed Trains 350, 250, S112 serie
  - 1450 doors delivered
- Intercity, Serie 7, Trenhotel
  - 1150 doors delivered
  - 700 more doors delivered by 2017 (RU, KAZ, UZB)



### Transtech, Finland

- ICS Double decker cars operating in Finland
  - 1800 doors delivered by 2020

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