Project Name: Central Subway Tunneling / San Francisco MTA Project #1252
Contractor(JV): Barnard Impregilo Healy JV
Subject: Seismic Seal / Ω seal
Spec: ① Watertightness; 0.15MPa
  ② Expansion and contraction displacement; ±101.6mm
  ③ Shear displacement; ±38.1mm

1. Water pressure test in our plant  2. Ω seal  3. Holding pressure; 0.25MPa
4. Tunnel eye concrete  5. Installation of bolts  6. Temporary setting of Ω seal

10th April, 2015
MUTSUBISHI RUBBER CO. LTD.
7. Installation of retainers
8. Installation completion of Ω seal
9. Watertightness test at site

10. Work completion

11. Overview design

23psi ≈ 0.158 MPa