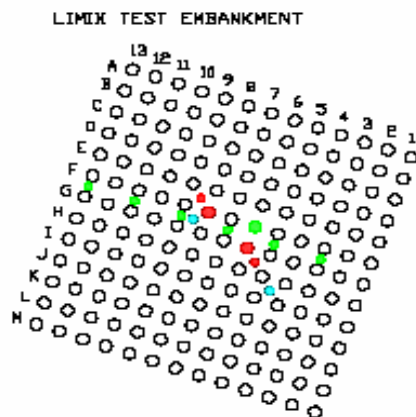
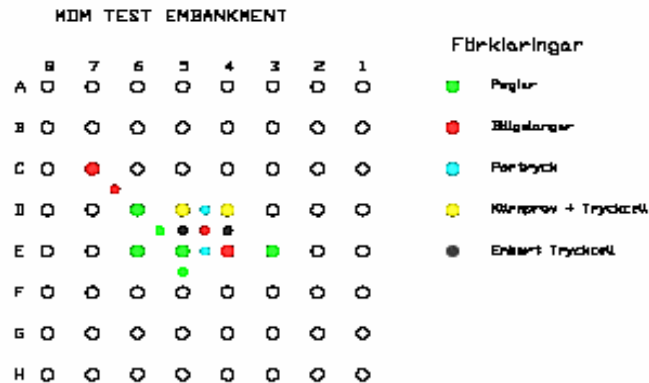


Test embankment at Torp, Uddevalla

- Behaviour of two test embankments
 - MDM
 - Dry Mixing (Limix)
- Control objectives
 - Settlement
 - Strength
 - Pore pressure
 - Chemical analysis (Ca)
 - Behaviour of geogrid (load transfer platform)

Layout of MDM and Limix columns



- MDM
 - Cement, 400kg/m³
 - Diameter ϕ 600 mm
 - Length 10 m
 - Spacing 2.2 m
- Limix
 - Lime/Cement 90 kg/m³
 - Diameter ϕ 600 mm
 - Length 14 m
 - Spacing 1.2 m

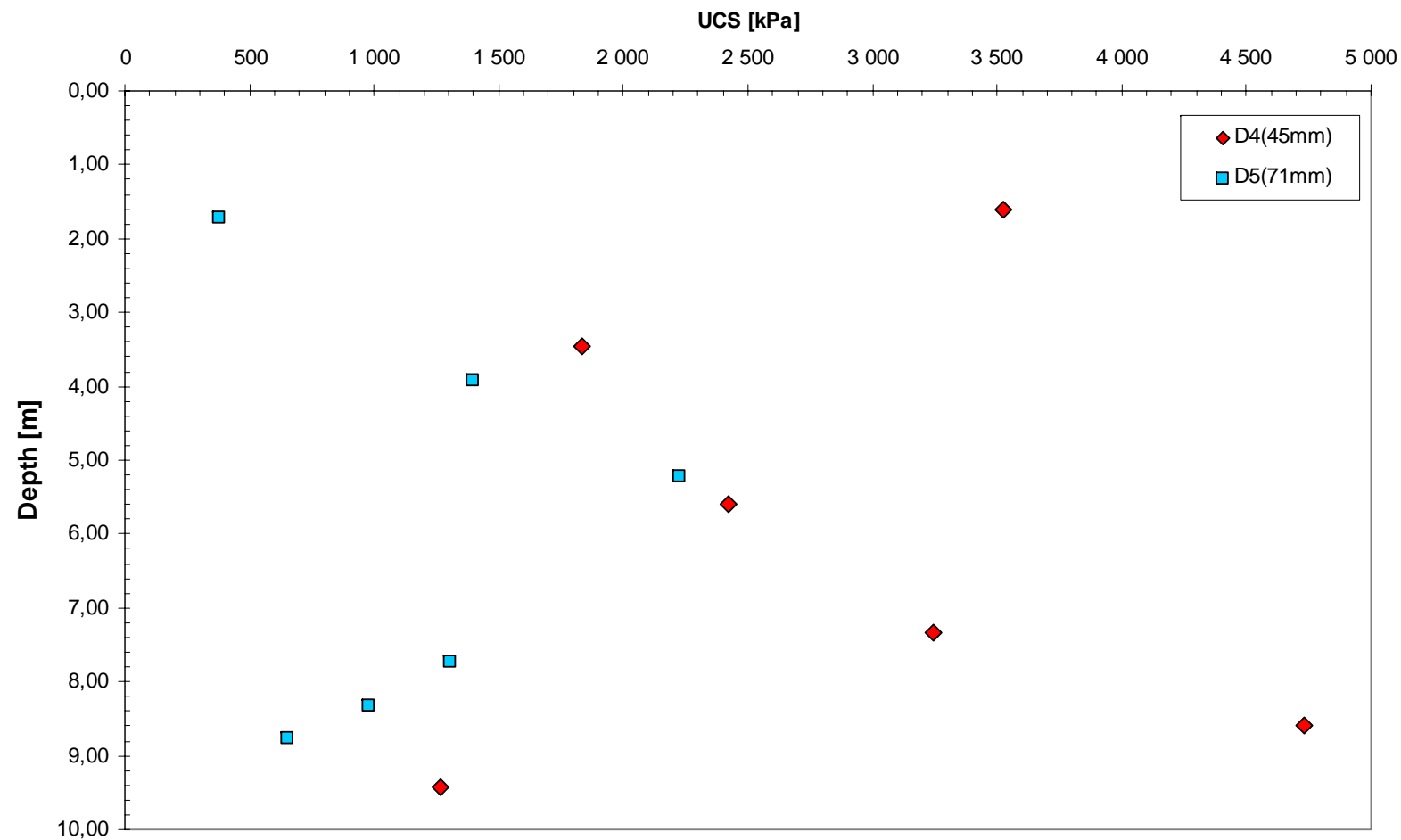
Core sampling – MDM columns



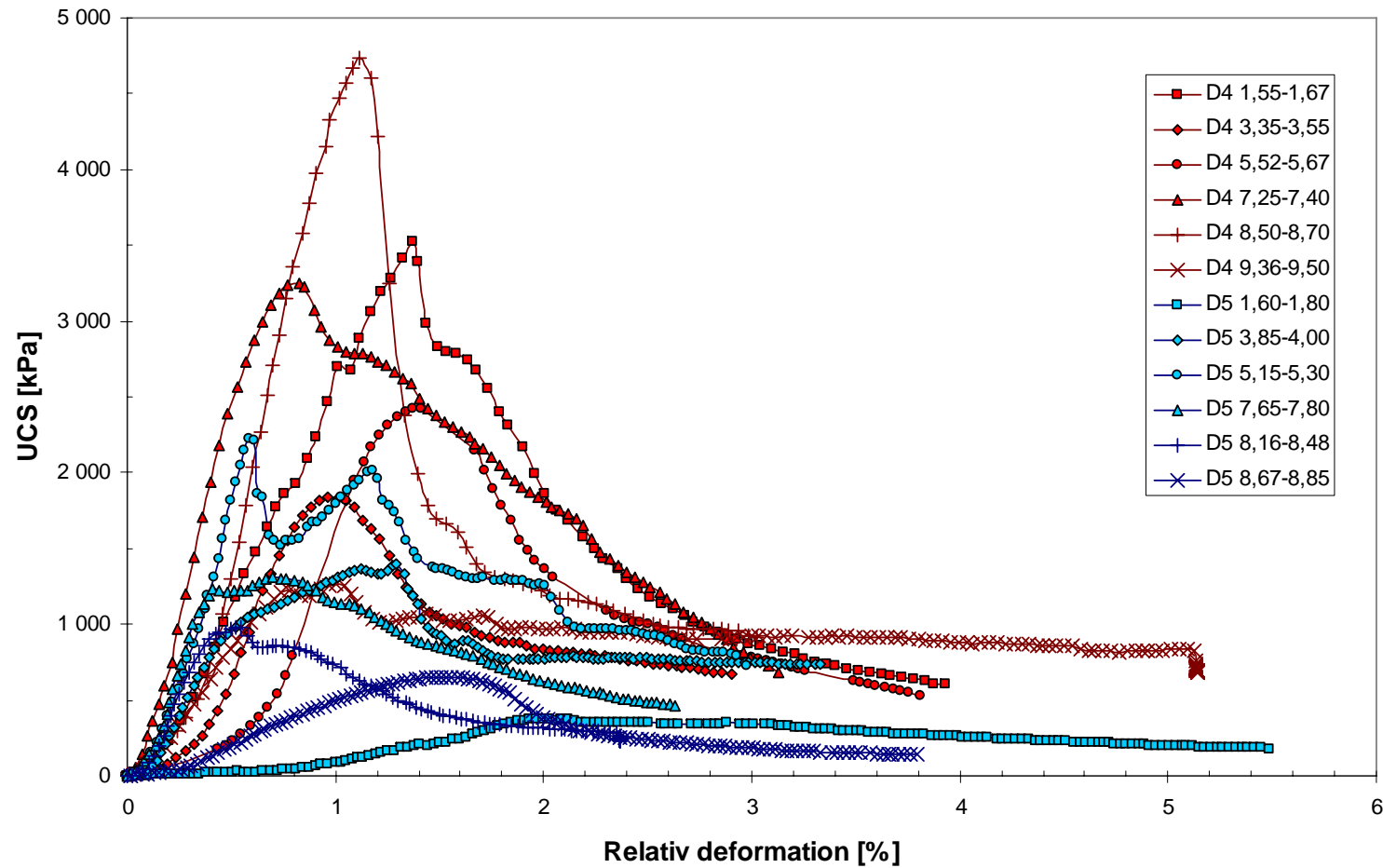
- Double barrel, split tube
 - Diameter $\phi 71$ mm
 - Length 10 m
 - Columns D4
- Double barrel
 - Diameter $\phi 45$ mm
 - Length 10 m
 - Columns D5



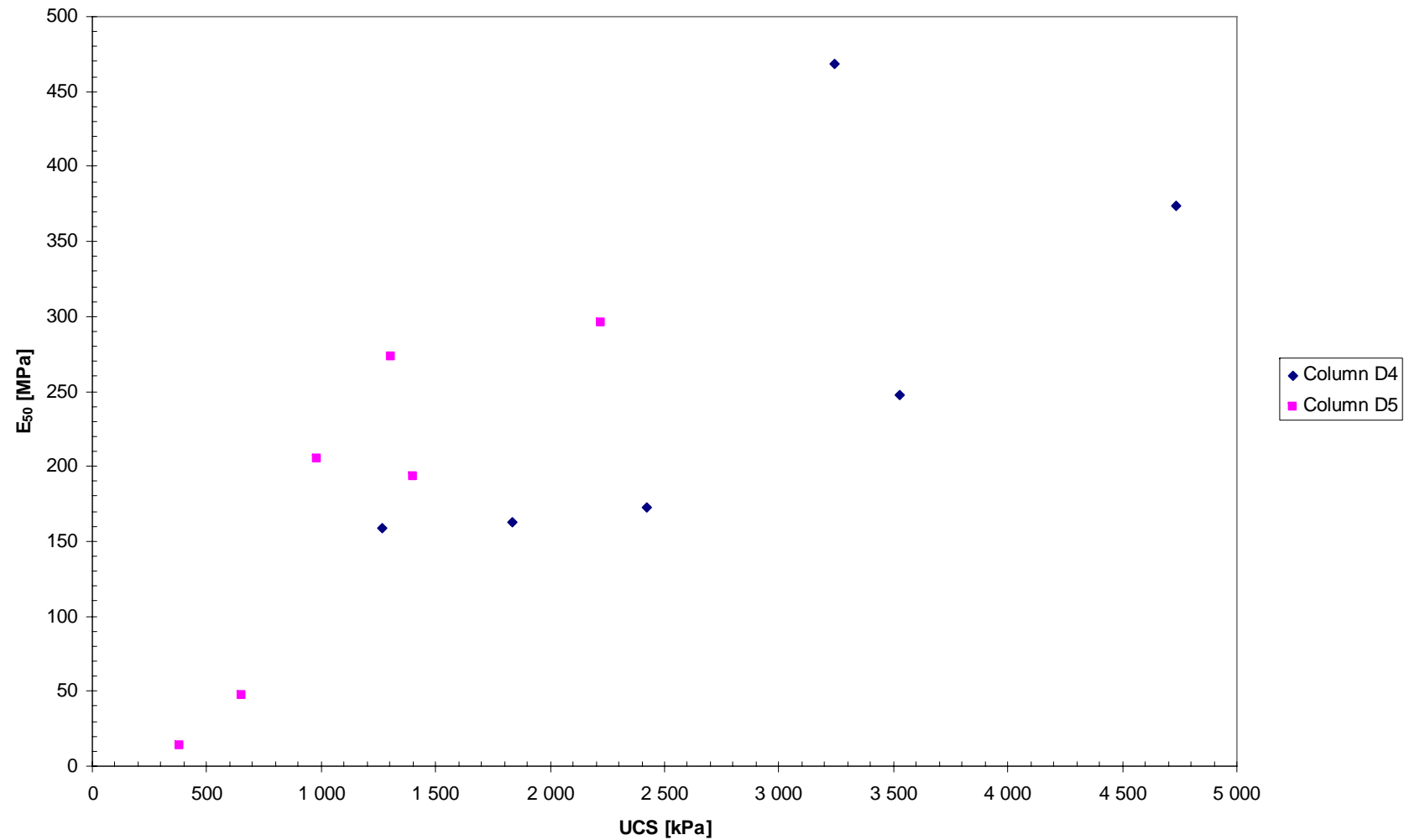
MDM columns – UCS on core samples



MDM columns – stress vs strain



MDM columns – UCS vs E_{50} -modulus



Full-scale (excavated) test columns



Construction & Instrumentation - MDM

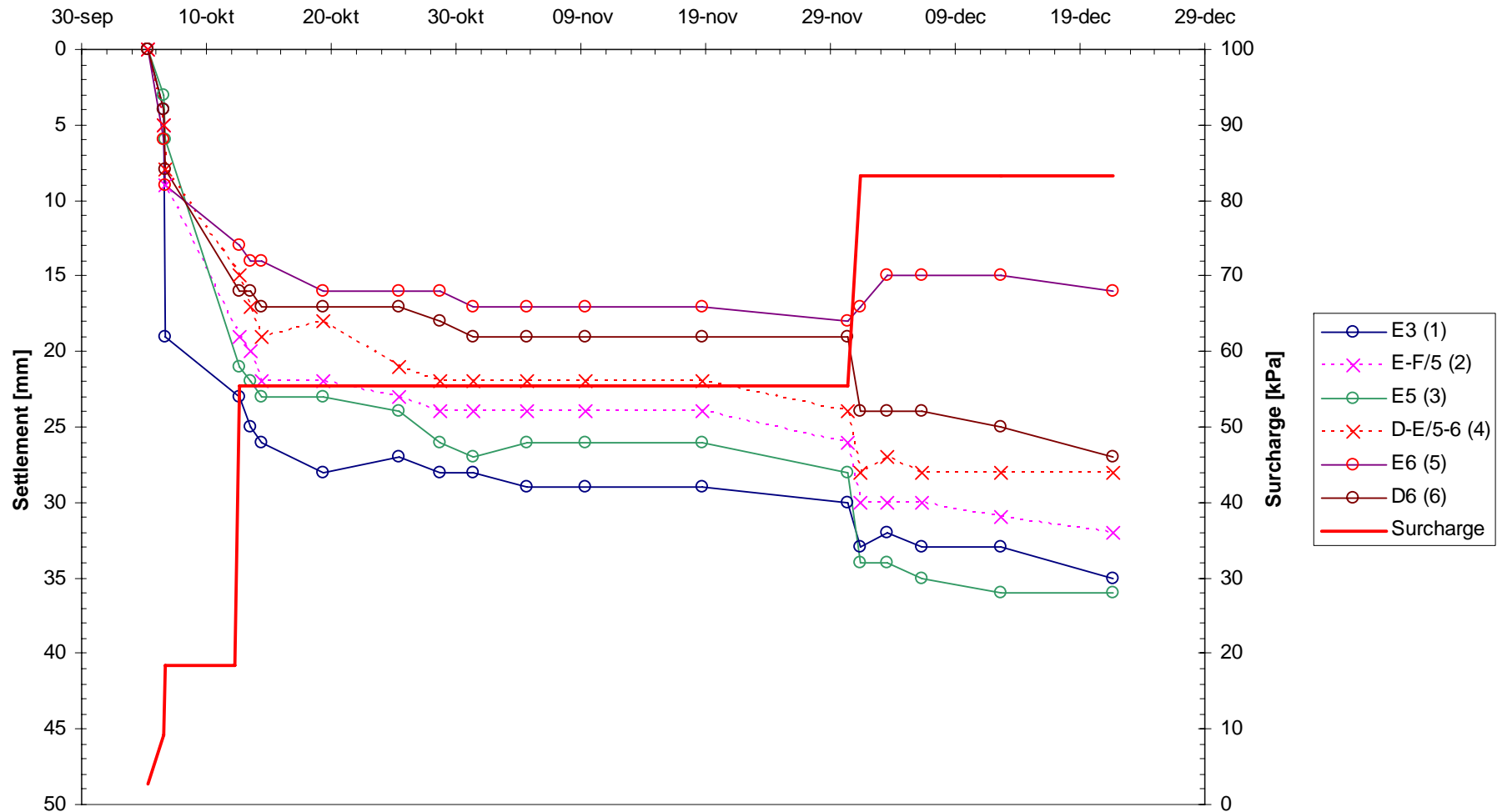


- Settlement gages
 - On top of columns
 - Between columns
- Pore pressure gages
 - Between columns
- Pressure cells
 - On top of columns
 - Between columns

Test embankments – finished construction

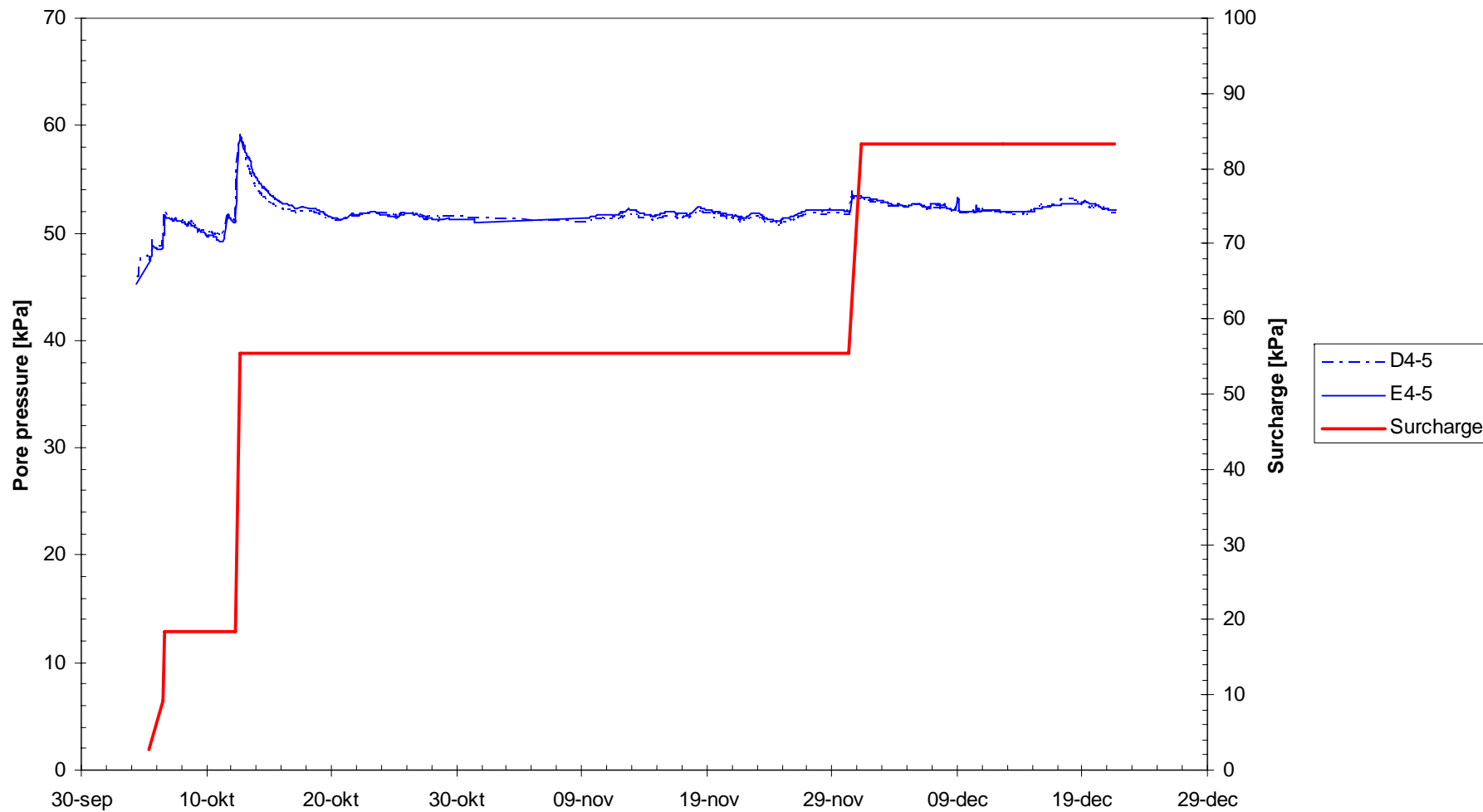


MDM - Torp, Settlements



Average MDM-modulus: $E=230$ MPa

MDM - Torp, Pore pressure



MDM - Torp, Pressure cells

