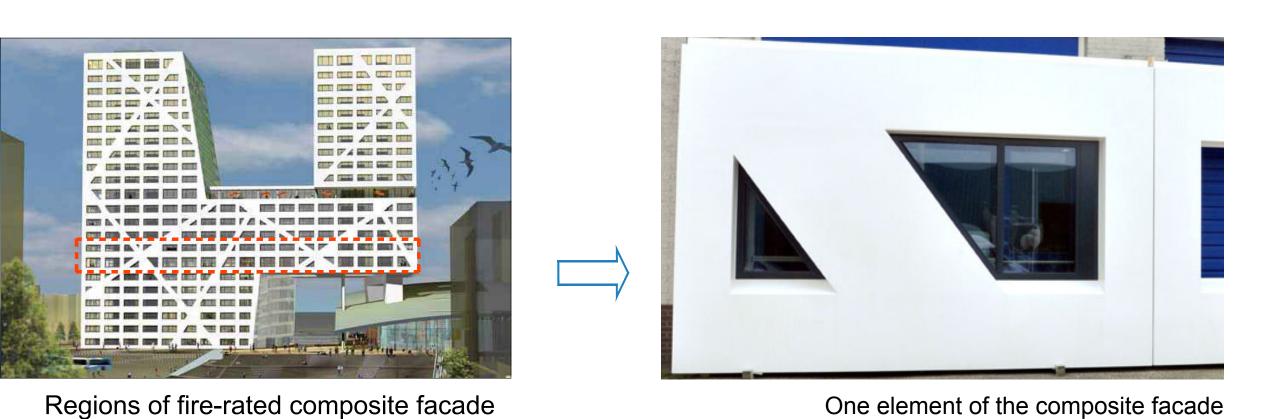
Abstraction

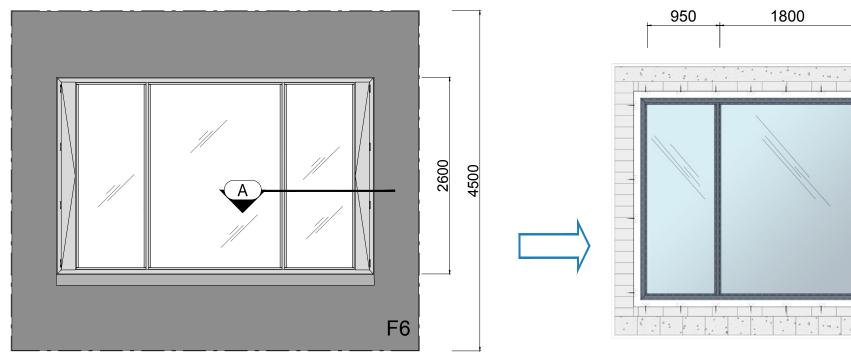
FOR THE PROJECT FIRE RATING CURTAIN WALLS STADSKANTOOR UTRECHT DESIGN MELIORATION





T_{max}=660°C Choose the T_{max}=1100°C

Facade types according to the grids

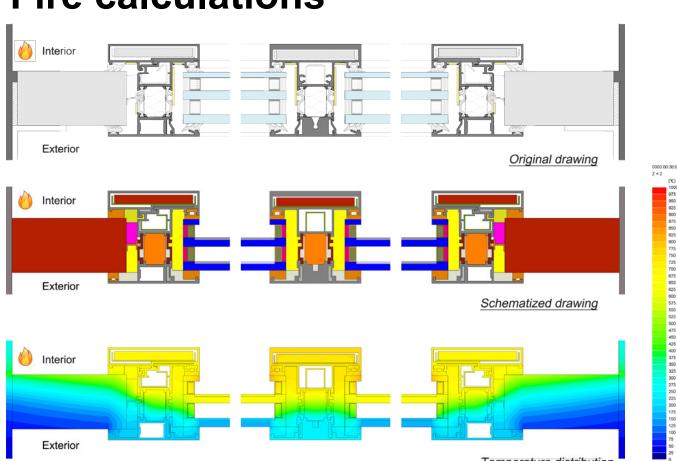


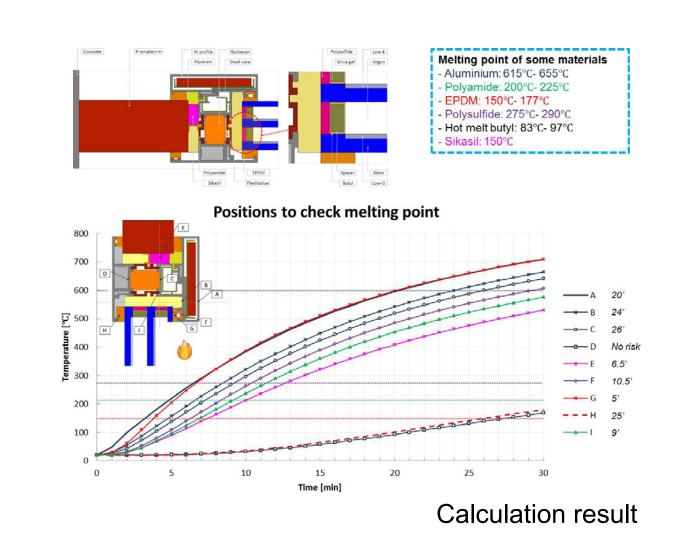
One element of the composite facade

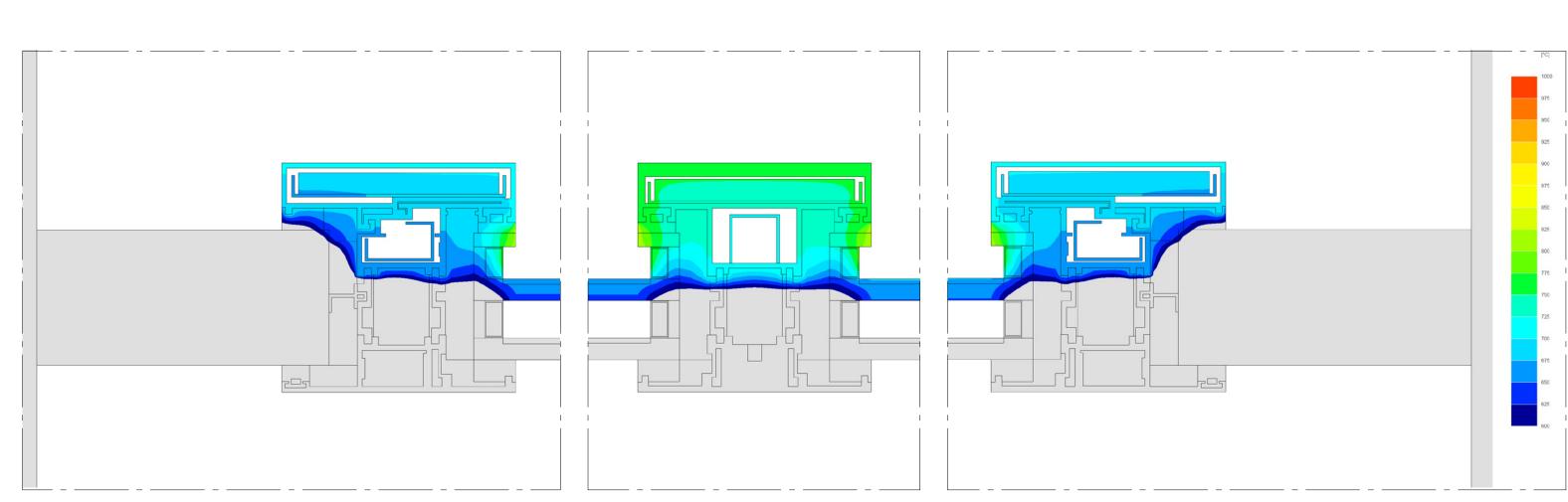
Fire-resistance of F6: EW 30 (i→o) 1:50

Testing element 1:50

Fire calculations



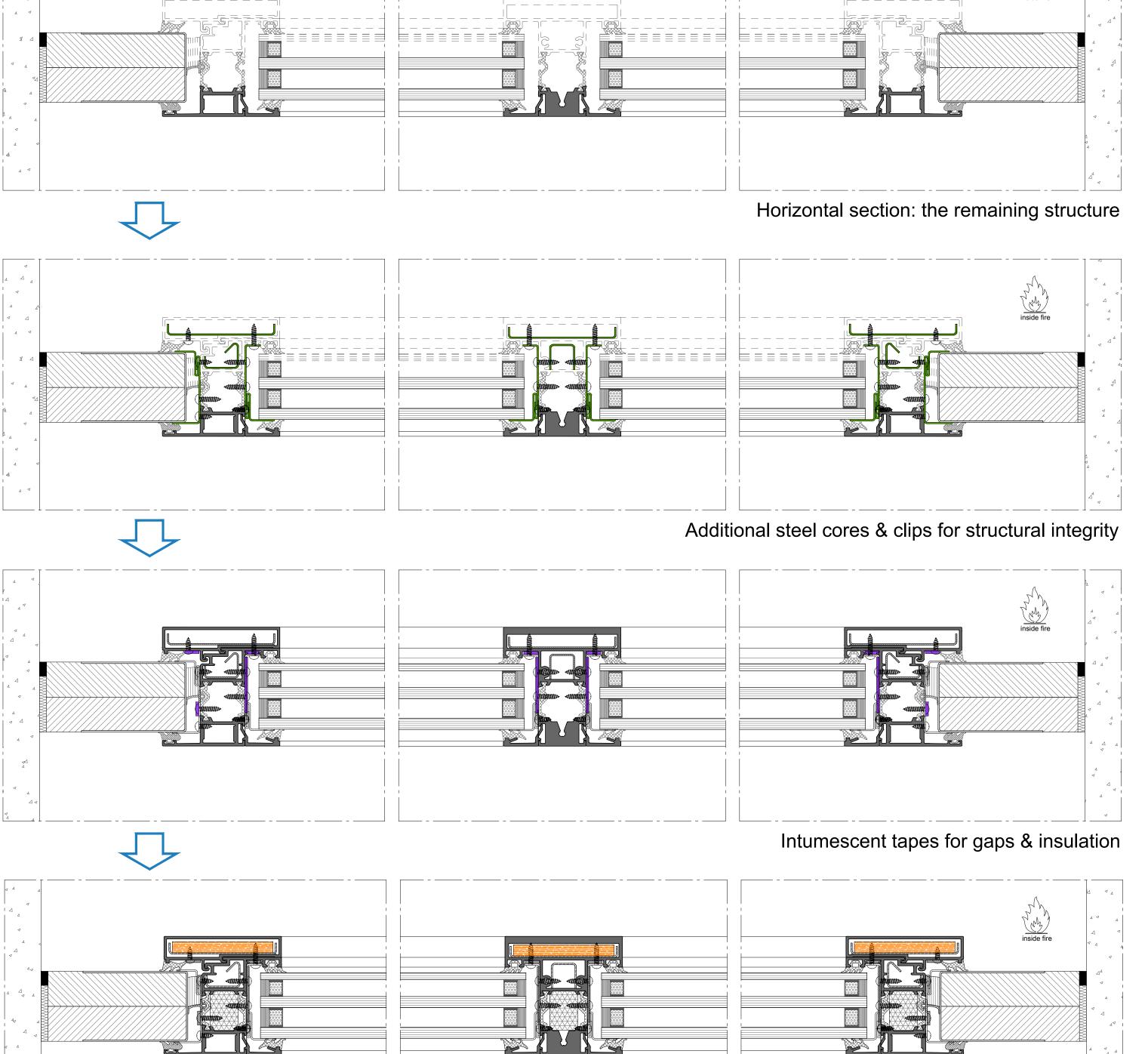


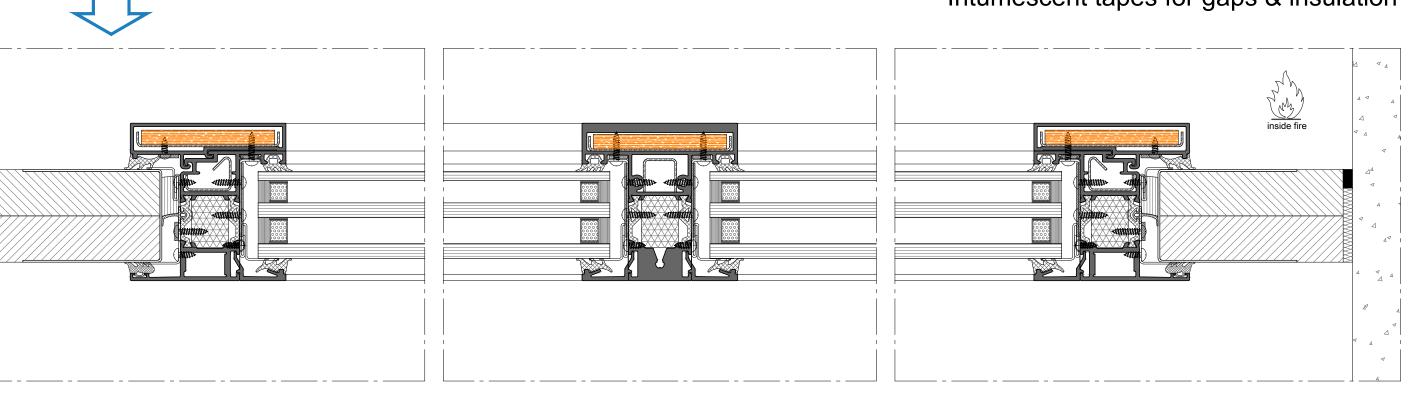


Areas ≥ 600°C after 30min

Round 1 (based on simulation result)





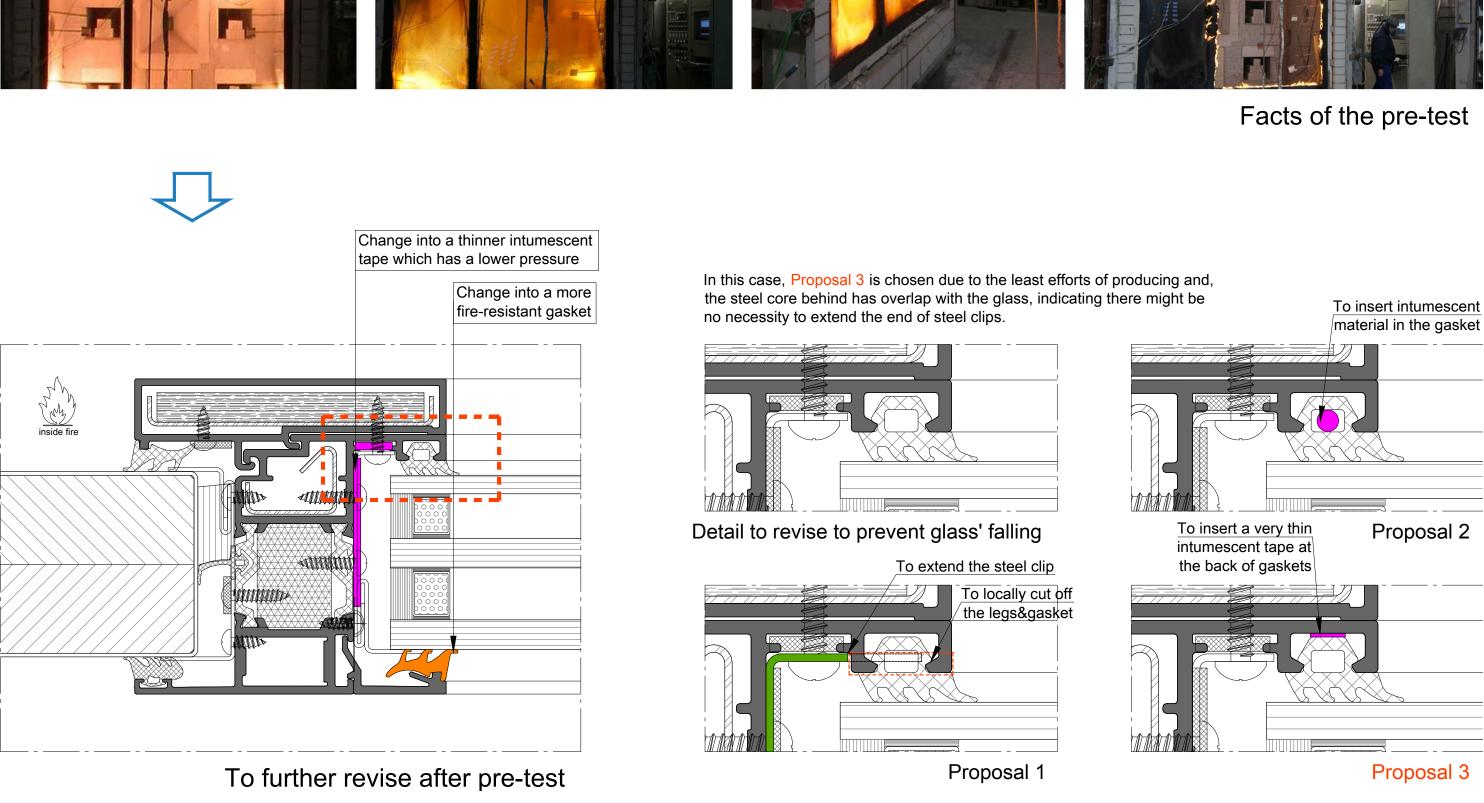


Rockwool to enhance insulation and Promatect boards to further cool down

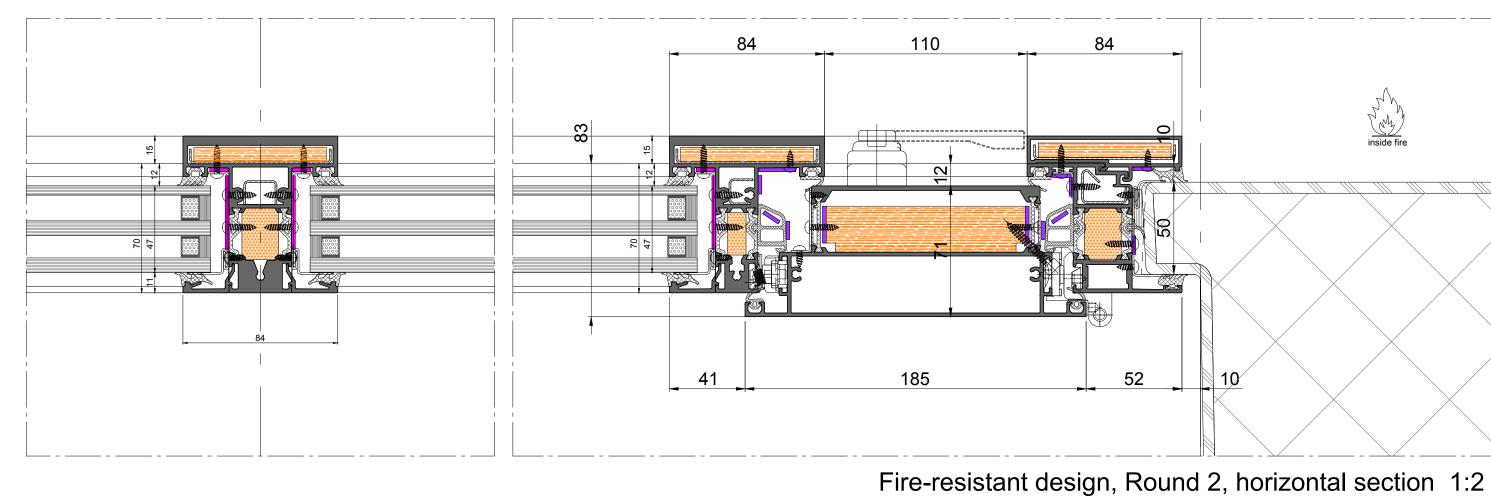
Round 2 (based on observation of the pre-test)



Facts of the pre-test



Result of Round 2 on the real element



Fire-resistant design, Round 2, Operable part, vertical section

Round 3 (application to the other type of facade in the same project based on experience)

Fire-resistant design, Round 2, vertical section

