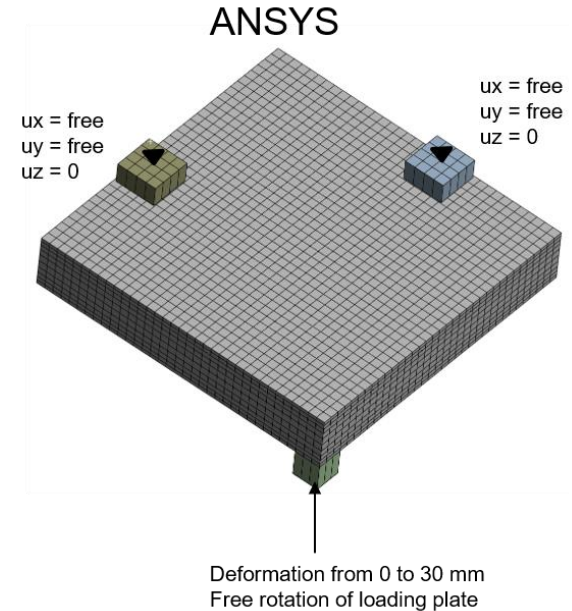
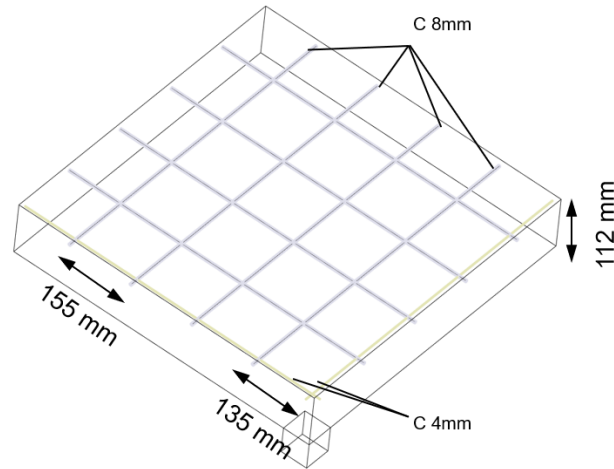
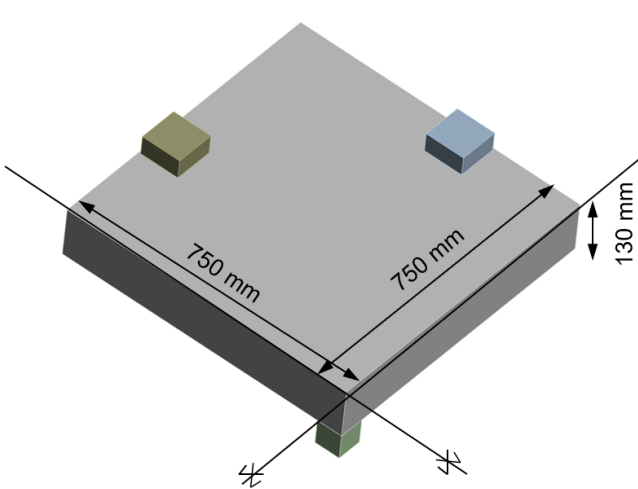


Muttoni PG8 beam ATENA-C4A + ANSYS 2025R1

[1] KADLEC, L. AND V. CERVENKA. UNCERTAINTY OF NUMERICAL MODELS FOR PUNCHING RESISTANCE OF RC SLABS. IN: PROCEEDINGS OF THE FIB SYMPOSIUM COPENHAGEN. COPENHAGEN, DENMARK, 18–20 MAY 2015, PP. 1–13.

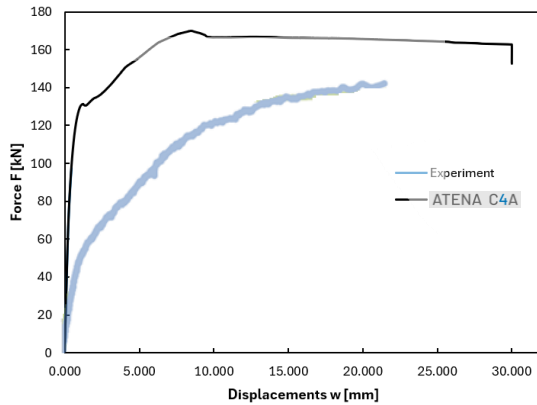
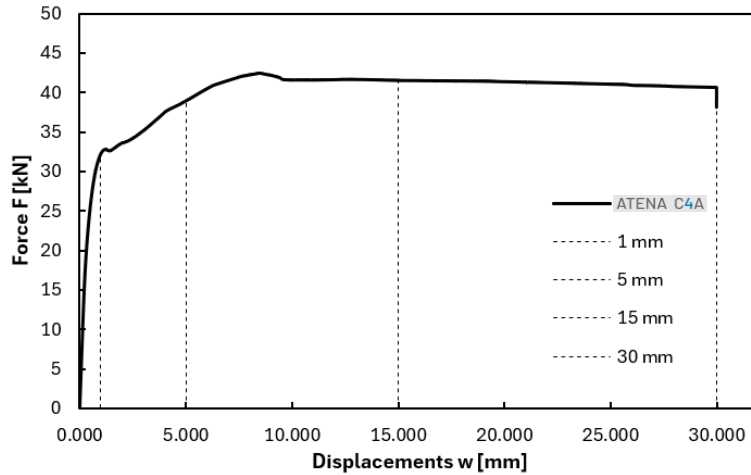
Muttoni PG8 beam

- Symmetric 1/4 model, reinforcement 8x 8 mm, 2x 4 mm (symmetric line divide in half 8 mm reinforcement => it was modelled as 4 mm)



RESULTS

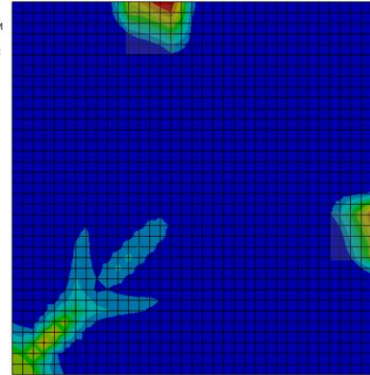
L-D diagram



* The experimental results were affected by measurement uncertainties. The loading frame exhibited excessive flexibility.

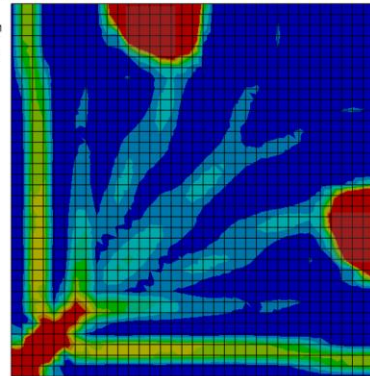
SVAR49 - Crack width for material direction X
Expression: SVAR50
Time: 1. s
7/16/2026 8:34:56 AM

0.0001861 Max
0.0001675
0.0001467
0.00012574
0.00010478
8.3827e-5
6.387e-5
4.1913e-5
2.0957e-5
0 Min



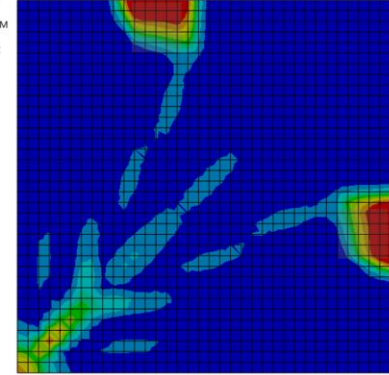
SVAR49 - Crack width for material direction X
Expression: SVAR50
Time: 15. s
7/16/2026 8:36:51 AM

0.0045538 Max
0.001
0.000875
0.00075
0.000625
0.0005
0.000375
0.00025
0.000125
0 Min



SVAR49 - Crack width for material direction X
Expression: SVAR50
Time: 5. s
7/16/2026 8:35:29 AM

0.0015001 Max
0.001
0.000875
0.00075
0.000625
0.0005
0.000375
0.00025
0.000125
0 Min



SVAR49 - Crack width for material direction X
Expression: SVAR50
Time: 30 s
7/16/2026 8:38:09 AM

0.0006419 Max
0.004
0.002
0.001
0.0005
0.0004
0.0003
0.0002
0.0001
0 Min

