ArGEnCo Department

Steel and Composite Structures Research Group

Prof. Jean-Pierre Jaspart and Dr. Jean-François Demonceau

Description of the research group

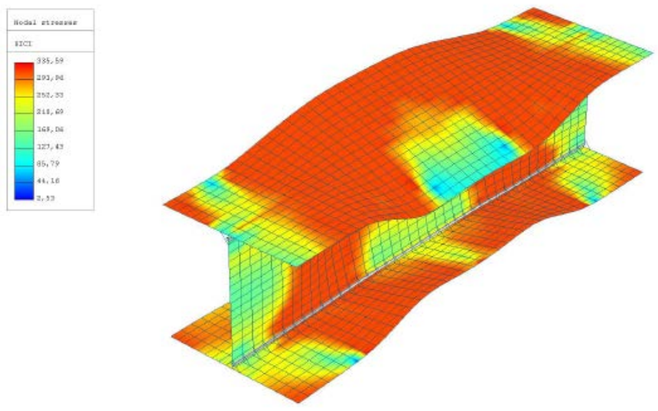
Headed by Prof. Jean-Pierre Jaspart and by Dr Jean-François Demonceau, the Steel and Composite Structure Research Group is specialised in the characterisation of the behaviour of steel and composite structures and is involved in different activities such as education (including continuing education for practitioners), research, technical supports to industry, standardisation, contributions to international technical committees…

The research group is involved in numerous international collaborations for research, normalization and transfer of knowledge to practice, activities to which all members of the team are invited to participate according to their personal interest through participation to conferences or stays abroad. This international dimension has also a clear influence on the recruitment of the team members who regularly originate from different continents.

All research activities are declined in the form of analytical, numerical and experimental investigations; the latter thanks to the existence of the "top level" M&S Laboratory who is part of the research team itself but also works for private companies.

Research topics

- Stability of structures and structural elements – *global stability of structures, cross-section resistance and classification, stability of structural elements (plates, beams and columns made of steel, steel-concrete...)*



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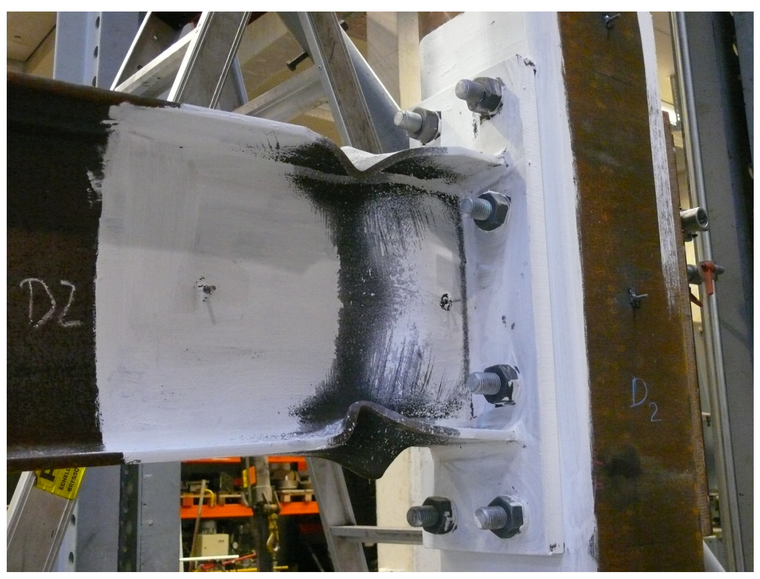
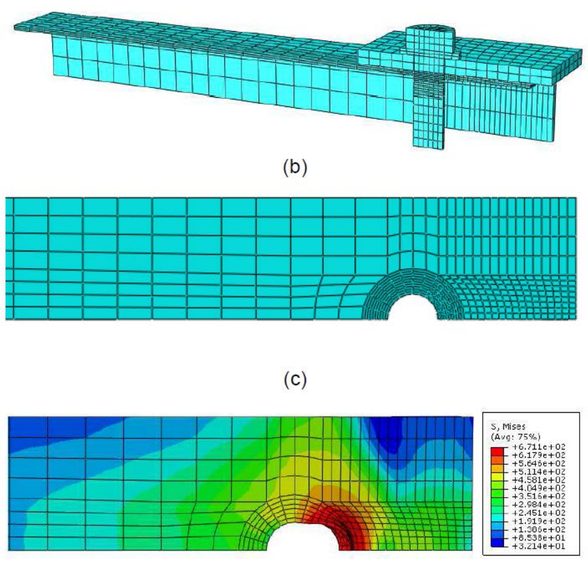
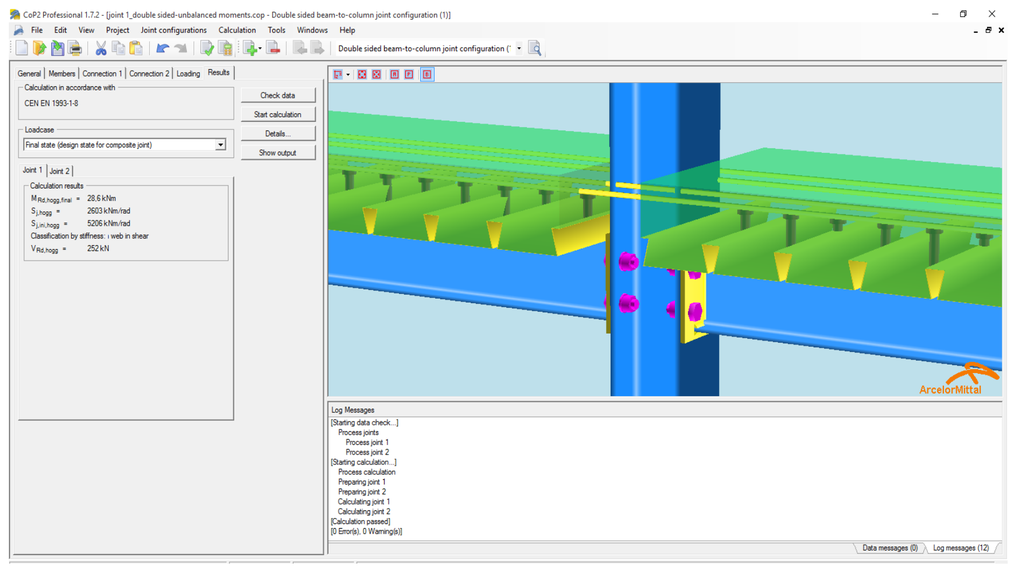
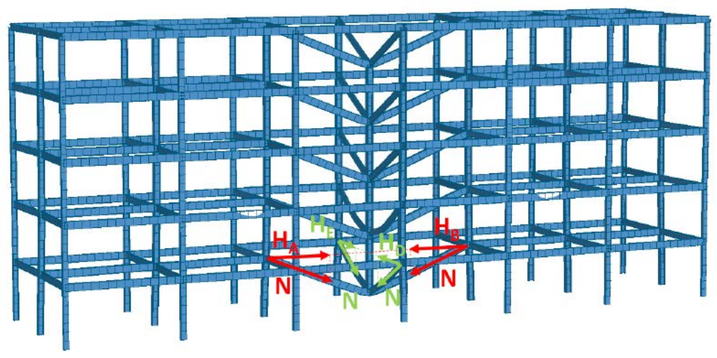
- Behaviour of structural joints – *innovative joint or connection solutions, characterisation of new joints or new joint components, joints under accidental/exceptional loadings (fire, seismic action, impact…)*







- Robustness of structures - *behaviour of structures subjected to exceptional loadings (impacts, localised fire, explosion…), in particular, leading to the loss of a column*



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