

Work Theme B: Structural engineering on modern steel construction

B1 Effective use of high performance steel materials - Q690 ~ Q960

Project Title:

c) “Effective use of High Performance Steel Materials – Q690 to Q960”

Principal Investigator: Ir Prof. Michael YAM (BRE)

Project Team Member: Ms. X.M. Lin

Progress / Achievement:

The research project started in August 2016 and a research assistant (RA) was recruited for the project. The project is progressing well and the RA has been working on the design of the full-scale experimental programme to examine the strength and structural behaviour of HSS bolted connections. Various test parameters such as the connection length, edge and end distance of bolt hole, bolt stagger effects and block shear of the connection will be considered in the experimental programme. HSS plates of S690 and S960 with different thicknesses have been purchased. A preliminary finite element analysis of the test specimens will be conducted to ensure that the desired failure mode of the specimens is achieved.

To help with the research progress, another research assistant has been recruited for the project and the RA will report to duty in May 2017.