



28TH JULY 2015

RECENT RESEARCH ON LIGHT GAUGE STEEL BUILDING SYSTEMS EXPOSED TO WIND AND FIRE

Professor Mahen Mahendran

*School of Civil Engineering and Built Environment
Queensland University of Technology, Brisbane,
Australia*

In recent times, light gauge building systems made of thin cold-formed steel members are increasingly used in many countries due to the many advantages they offer. For example, light gauge steel frame (LSF) wall systems and roofing systems are commonly used. However, research into their behavior and design is essential to ensure their safety when exposed to wind or fire actions. Hence QUT researchers have recently conducted two research projects to address this need.

This seminar will present the details of these recent research projects at QUT and the results including the detailed performance data of LSF wall and roofing systems exposed to fire and wind actions, and accurate design rules to predict FRR and Wind Uplift Capacity. Engineers can use these tools to successfully design safe and efficient LSF wall and roofing systems in residential and office buildings.

GUESTS ARE WELCOME!

RUHR
UNIVERSITÄT
BOCHUM

RUB50 Jahre

RUBstahl-SEMINAR

DAY

Tuesday, 28th July 2015

TIME

17:00

LOCATION

**Ruhr-Universität Bochum
Fak. für Bau- und Umwelt-
ingenieurwissenschaften
Gebäude IC 03-112**

LEHRSTUHL FÜR

STAHL-, LEICHT- UND VERBUNDBAU

Prof. Dr. Markus Knobloch

Ruhr-Universität Bochum

Fakultät für Bau- und
Umweltingenieurwissenschaften

Universitätsstr. 150

Gebäude IC 5-63

44801 Bochum

Tel.: +49(0)234-32-22575

E-Mail: stahlbau@rub.de

www.rub.de/stahlbau

RUB | stahl