Incseb
LOW CARBON STEEL ENVELOPE SYSTEMS

Thursday 12 June 2025 14h-18h
7-9 rue La Pérouse, 75116 Paris

INVITATION WORKSHOP

Incseb project www.incseb.eu

The Incseb project has successfully developed five innovative ultra-low carbon building steel envelope systems thanks to the innovative use of wood fibre, a renewable and bio-sourced insulation material, while achieving a high level of thermal performance and ensuring compliance with other requirements such as mechanical, fire and acoustic.

Why participate in the Incseb project workshop?

- To discover a **new family of steel envelope systems with wood fibre insulation**

- **To benefit from the results of a 3-year European research project that develops five innovative low-carbon solutions** for steel envelopes with wood fibre insulation:
  - cladding sandwich panels with two steel facings and a wood fibre insulation core
  - pitch roofing sandwich panels with two steel facings and a wood fibre insulation core
  - double skin cladding system with a wood fibre insulation material
  - facade cladding system made in cassette with a wood fibre insulation
  - flat roofing sandwich panel with two steel facings and a wood fibre core completed by a mineral wool insulation and a waterproof membrane

- To get test results and full system performances

PRACTICAL INFORMATIONS

WHO SHOULD ATTEND?

This workshop will be of interest to steel envelope manufacturers, installers, design offices, architects, project owners, students in metallic construction, international codification experts, researchers.

PARTICIPATION IS FREE BUT REGISTRATION IS MANDATORY

As the number of participants is limited, places will be allowed according to the registration date

REGISTER HERE

DOCUMENTS AND WORKSHOP DELIVERABLES

Power point presentation materials and all the technical documents will be made available to attendees.

The InCSEB project has received financial support from the European Community's Research Fund for Coal and Steel (RFCS) under grant agreement N° 101033984

tecnalia
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

L'ENVELOPPE MÉTALLIQUE DU BÂTIMENT
ASSOCIATION DES FABRICANTS DE PANNEAUX, PROFILS ET SYSTÈMES

TECHNISCHE UNIVERSITÄT DARMSTADT

monopanel BUILDING ENVELOPE
: your vision, our challenge

JORISIDE THE STEEL FUTURE

UNIVERSIDADE DE COIMBRA

INVITATION WORKSHOP

Thursday 12 June 2025 14h-18h
7-9 rue La Pérouse, 75116 Paris

PROGRAMME

13.45-14.00	Registration
14.00-14.05	**INTRODUCTION AND OVERVIEW OF THE INCSEB PROJECT** L'Enveloppe Métallique du Bâtiment
14.05-14.25	**DESCRIPTION OF THE 5 INNOVATIVE STEEL ENVELOPE SYSTEMS WITH WOOD FIBRE INSULATION** Two prefabricated systems: cladding and pitch roofing sandwich panels with two steel facings and a wood fibre insulation core Monopanel Three site-assembled systems using wood fibre insulation: double skin steel system and facade cladding system with cassettes and flat roof sandwich panel Joris Ide
14.25-15.15	**PERFORMANCE OF THE 5 INNOVATIVE STEEL ENVELOPE SYSTEMS** **Static and dynamic mechanical performances** Technical University of Darmstadt and Tecnalia **Building physic performances: thermal, air, water and vapour permeability, acoustic performances and fire performance** Tecnalia and University of Coimbra
15.15-15.45	**DURABILITY OF THE 5 SYSTEMS: LESSONS LEARNED FROM OBSERVING (OVER A PERIOD OF 2 YEARS) THE REAL BEHAVIOUR OF THE SYSTEMS INCORPORATED IN 2 DEMONSTRATORS AND CONSISTENCY WITH LABORATORY RESULTS** University of Coimbra and Technical University of Darmstadt
15.45-16.00	**Questions & Answers session**
16.00 -16.30	**COFFEE BREAK**
16.30-16.45	**LIFE CYCLE ASSESSMENT (LCA) FOR THE 5 INNOVATIVE STEEL ENVELOPE SYSTEMS** L'Enveloppe Métallique du Bâtiment
16.45-17.00	**DETERMINATION OF THE CARBON FOOTPRINT (GWP) BENEFITS OBTAINED AT A BUILDING LEVEL** University of Coimbra
17.00-17.10	**ECONOMIC ASSESSMENT FOR THE 5 INNOVATIVE STEEL ENVELOPE SYSTEMS** L'Enveloppe Métallique du Bâtiment
17.10-17.40	**TOOLS, GUIDES AND DATA FOR DESIGNING AND IMPLEMENTING THE 5 SYSTEMS** **§ Design guides, installation guides and BIM objects for cladding and pitch roofing sandwich panels** Monopanel **Design guides, installation guides and BIM objects for double skin steel system, facade cladding system with cassettes and flat roof sandwich panels** Joris Ide
17.40-17.55	**Questions & Answers session**
17.55-18.00	**CONCLUSIONS** L'Enveloppe Métallique du Bâtiment
18:00-19:30	**COCKTAIL RECEPTION**