



# A knowledge dissemination project tailored for all steel construction professionals

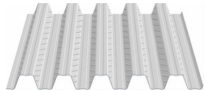
ENGINEERS • MANUFACTURERS • ARCHITECTS • INSTALLERS...



## Disseminating value-added knowledge on 7 key families of steel profiles

From 2013 to 2016 an extensive research project on *seven key families of steel profiles*, involving a comprehensive experimental programme and detailed calculations methods, has been carried out on seven families of steel profiles.

GRISPE PLUS disseminates and facilitates access to valuable and exploitable knowledge generated thanks to the initial project: innovative calculation methods with their Excel software, technical guidelines, background information.



STEEL DECKS  
WITH EMOSSMENTS/  
INDENTATIONS  
OR STIFFENERS



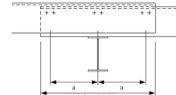
CURVED  
PROFILES



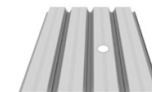
LINER  
TRAYS



PERFORATED  
PROFILES



ASSEMBLED  
PROFILES



HOLED  
PROFILES



CORRUGATED  
PROFILES



CLADDING  
SYSTEMS

### What type of knowledge is disseminated?

- 1 Critical review of the state of the art for the seven families of steel profiles
- 2 Results of the experimental programme carried out from 2013 to 2016
- 3 Detailed analysis of all the results
- 4 Innovative design and calculation methods developed in line with the experimental programme
- 5 Calculation methods backgrounds
- 6 Easy to use design Excel software sheets
- 7 European codification proposals to facilitate their inclusion into EN 1993-1-3

### What are the main advantages for the stakeholders to benefit from this knowledge and use the innovative calculation methods and design?

- An increase in the performance (mechanical, acoustic, thermal, etc.) of the profiles and/or systems and of the building envelop;
- A reduction of the amount of material used in the manufacturing process;
- The availability of cost effective products and systems and of practical design methods
- A better security in the design with the same safe design method being used across the European Union.
- An optimisation of the size and thickness of the profiles;

### How to access to the information easily?

A series of tools gives an easy access to this knowledge in simple terms & with a didactic approach

#### On-line central resources:

[www.grispeplus.eu](http://www.grispeplus.eu)

#### 11 E-lectures:

- Grispe plus summary
- General introduction
- 9 E-lectures on the seven families

#### 9 design manuals & worked examples

Translated into 5 languages

#### 5 workshops

France, Germany, Italy, Poland, Finland



The partners of **GRISPE PLUS**

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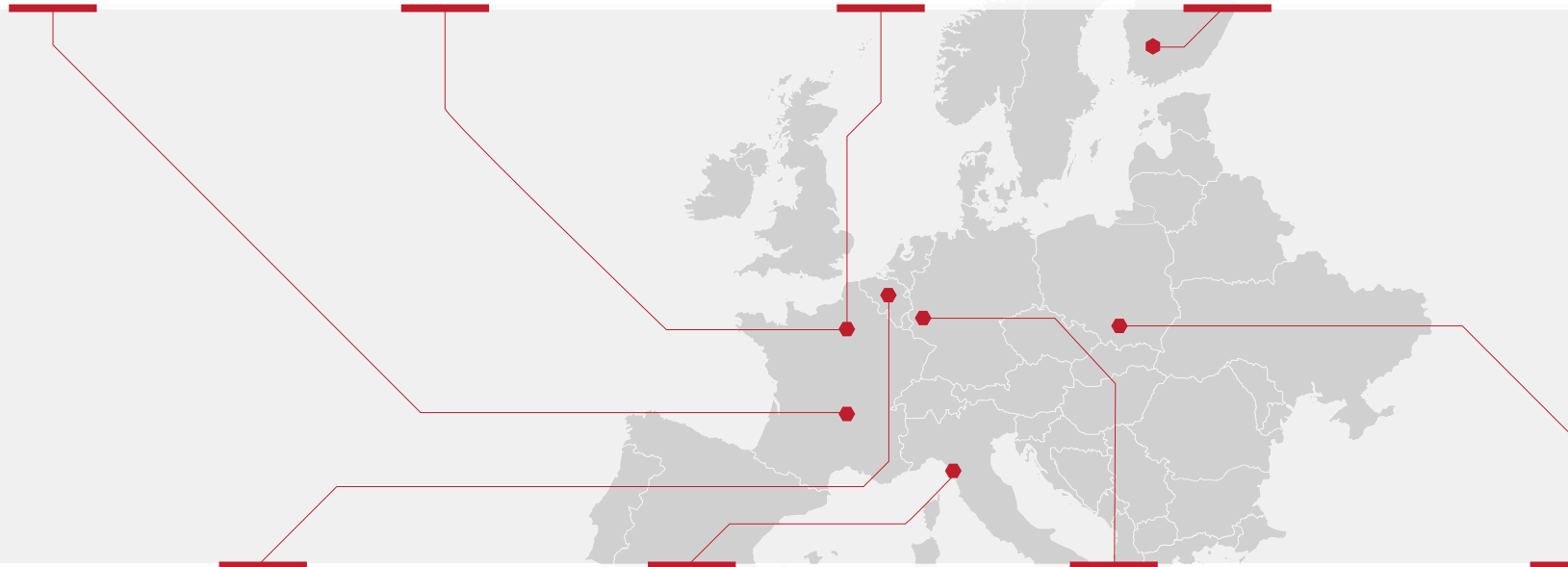
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**Promoting codification proposals for the seven families of profiles**

The GRISPE PLUS project also aims at promoting a number of amendment changes in the Eurocode EN 1993-1-3. The objective is to include in the code the seven families of steel profiles as they are not considered in the current version despite their importance for the construction market

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**GRISPE PLUS**  
VALORISATION OF KNOWLEDGE  
FOR SPECIFIC PROFILED STEEL SHEETS