

Liege, August 21st, 2017

SAFIR Newsletter

1) Documentation

- a. New publication in JSFE
- b. Validation through DIN EN 1992-1-2

2) Development

- a. Free updated GID-SAFIR interface release
- b. Free updated DIAMOND release

3) Training

- a. Training session in Liege on November 9-10, 2017
- b. Workshop in Belfast on June 5, 2018 (before SiF conference)

1) Documentation

a. New publication in JSFE

A new paper about SAFIR has just been published!

Have a look to find out more about the **theory behind SAFIR** and to learn new “tricks” to use the software at its full extent.

JSFE
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Modeling structures in fire with SAFIR[®]: theoretical background and capabilities

300

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The paper can be **obtained by request at**: <http://hdl.handle.net/2268/202859>

Please kindly quote this paper in your publications that make use of SAFIR.

Reference: Franssen, J.M., Gernay, T. (2017). "Modeling structures in fire with SAFIR[®]: theoretical background and capabilities", Journal of Structural Fire Engineering, Vol. 8 Issue: 3, pp.300-323, <https://doi.org/10.1108/JSFE-07-2016-0010>

b. Validation through DIN EN 1992-1-2

We are pursuing our efforts to build a more comprehensive documentation about SAFIR.

In particular, we have started to gather and release documentation about **SAFIR validation on our website**: http://www.uee.ulg.ac.be/cms/c_2673990/fr/safir-free-downloads

For now, you can find there a **series of examples** proposed in Annex C of the norm DIN EN 1992-1-2 **for benchmarking** software tools aimed at the design of structures in fire. The number of examples run with SAFIR will be increased over time. We encourage you to come back to this page from time to time.

In the coming weeks, we will also add information about **validation** of the software based on comparison with **experimental fire resistance tests**.

2) Development

a. Free updated GID-SAFIR interface release

The **GID-SAFIR interface** is being developed on a continuous basis. The latest version is available for free at: http://www.uee.ulg.ac.be/cms/c_2673990/fr/safir-free-downloads

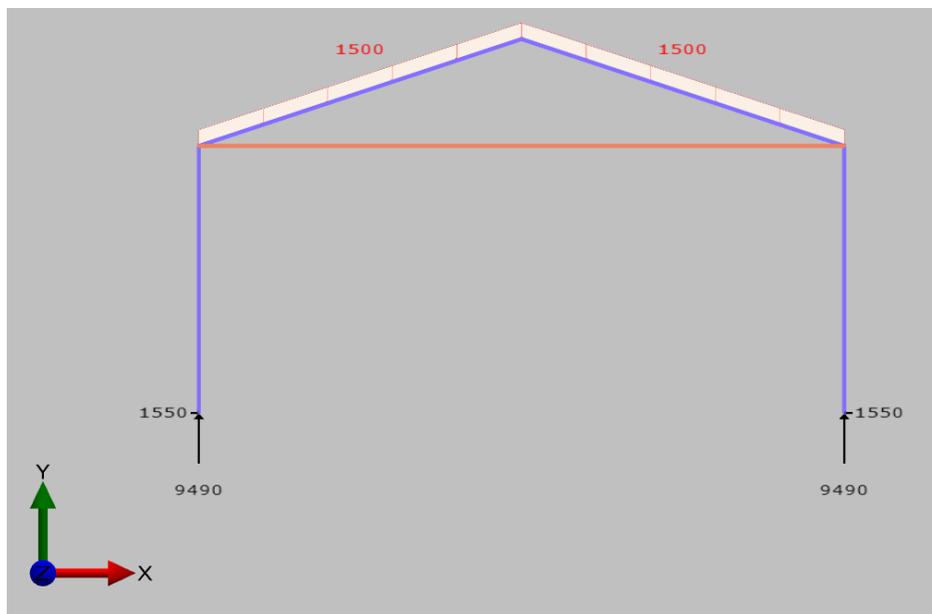
Latest improvements include new options for ensuring full compatibility with the latest version of SAFIR and correction of bugs.

b. Free updated DIAMOND release

The **post-processor DIAMOND**, developed on a continuous basis, can also be downloaded on our website. The latest version (from July 25, 2017) allows new capabilities such as:

- **Plotting stresses and strains** in the section of a beam element (in each fiber)
- Plotting a **chart of the stresses, strains and tangent modulus** in the beam fibers
- **Displaying labels** for the values of the displacements, reactions, loads and forces

The latter development was made possible owing to the support of *Lenz Weber Ingenieure GmbH*, which is gratefully acknowledged.



3) Training

a. Training session in Liege on November 9-10, 2017

A 2-day **training session for SAFIR** will be organized on **November 9-10 2017**, at **University of Liege** in Belgium. The session will be at the **introductory level**.

For more information, visit: http://www.uee.ulg.ac.be/cms/c_2838515/fr/november-9-10-2017-2-day-training-session-for-safir

b. Workshop in Belfast on June 5, 2018 (before SiF conference)

A **SAFIR workshop** will be organized right before the 10th Structures in Fire Conference (SiF'18) in Belfast. The workshop will be held on **Tuesday, June 5, 2018, from 1 pm to 5 pm, at Ulster University**, Belfast U.K (room to be confirmed).

After an overview of the main features of the software, a special emphasis will be given to the **possibilities that exist to consider the fire attack**. The program is as follows:

1. General organization of SAFIR
2. Methods for interfacing a fire model with a SAFIR FE model
3. Future developments
4. Particular questions

This workshop is **free to attend**, but registration is mandatory (by emailing safir@ulg.ac.be, subject 'SAFIR workshop registration', before April 30).

For more information, please see the dedicated announcement attached to this email.

Sincerely yours

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