



# SOLIDO GROUP TRAINING – 1 DAY (ENGLISH)

Online training  
28.02.2022 9.00-17.00h

For new SOLIDO-users or current TRISCO/SOLIDO-users who want to refresh their building physics background and increase productivity with SOLIDO by learning all functionalities & tricks

## 1. Introduction to heat transfer theory and implementation in the Physibel software

- Concepts of conduction – convection – radiation
- Link to the European standards (with focus on EN ISO 10211 and EN ISO 6946)
- Implementation in the Physibel software: Colour types and conventions (Colour Database)

## 2. Exercises on SOLIDO syntax

- Introduction to 'Physibel basic colour' types
- Exercise 1: 1D heat transfer, wall U-value.
- Exercise 2: modelling a mushroom column by using solids
- Exercise 3: modelling a 3D wall-to-roof junction by using STL files

## 3. Derived thermal properties and reporting

- Linear thermal transmittance ( $\psi$ -value) (metal stud wall)
- Point thermal transmittance ( $\chi$ -value) (ventilated façade with brackets)
- Mean thermal transmittance ( $U_m$ -value) (ventilated façade with brackets)

## 4. Geometric modelling and meshing in SOLIDO

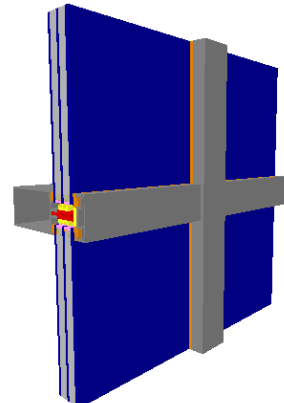
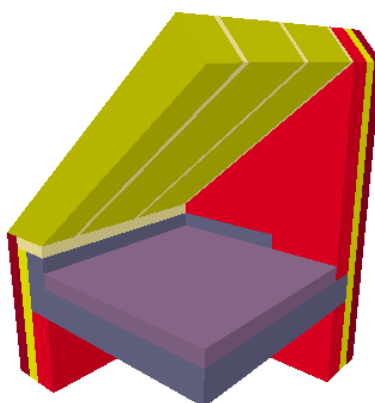
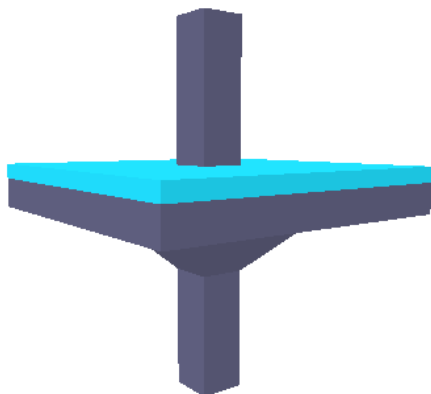
- Prepared CAD drawing via TriscoDXF (from TRISCO to SOLIDO)
- Unprepared CAD drawing as underlayer in Trisco2D (from Trisco2D to SOLIDO)
- Preparing STL files for input in SOLIDO
- Creating and optimising calculation meshes in SOLIDO

## 5. SOLIDO output

- SOLIDO graphic output and text output

## 6. Air cavities: non-ventilated, slightly ventilated, strongly ventilated according to EN ISO

- About global surface heat transfer coefficients: horizontal, upwards, downwards.
- Air cavities in international standards implemented in SOLIDO: EN ISO 6946 and EN ISO 10077-2
- Exercise on cavities and layers and low emissivity materials





## REGISTRATION FORM

### TRAINING

Training: SOLIDO training – 1 day (ENGLISH)  
 Location: online  
 Scheduled day & time: 28.02.2022  
 9.00h – 12.30h and 13.30h-17.00h  
 Price (VAT not included) : 350.00 EUR

### PARTICIPANT INFORMATION:

PARTICIPANTS NAME: .....  
 MAIL ADDRESS:.....

### INVOICE INFORMATION:

COMPANY NAME: .....  
 REFERENCE (optional): .....  
 VAT-number (EU-based company's): .....  
 MAIL ADDRESS:.....

ADDRESS LINE 1: .....  
 ADDRESS LINE 2: .....  
 ADDRESS LINE 3: .....  
 ADDRESS LINE 4:.....  
 COUNTRY: .....

NAME/SIGNATURE or COMPANY STAMP

DATE

Please return this registration form to mail@physibel.be by **14/02/2022** at the latest.  
 You will receive a payment link for the registration fee of 350.00 euros + VAT (if applicable).  
 When the payment is done, your registration is completed and you will receive the course information and electrical invoice.

If the minimum number of participants is not attained the organizer reserves the right to postpone the training.  
 Registration can be transferred to another person at any time.