

H1 - What is the difference between the colour database and the material database(s)?

Colour database

Colours are the basic constituents of any model within all Physibel programs.

Colours are defined in the **Colours window** and can be of different types (see manual for complete list):

- Material (MATERIAL)
- Boundary condition (BC_SIMPL,...)
- Cavity (EQUIMAT, TRANSMAT,...)
- ...

The Physibel **colour database** is a set of predefined colours which are easily accessible from within the Physibel programs. The colour database can be adjusted by the user. It is advisable to add frequently used colours to the colour database.

The maximum number of predefined colours is 256.

The colour database is directly accessible from within a project: *File → Open Colour Database¹*.

Material database(s)

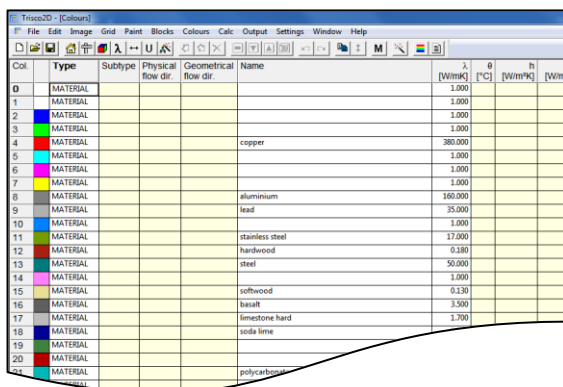
On the other hand, a collection of existing **material databases** containing thermal properties of (building) materials (e.g. EN 12524, EN 10077-2, EPBD databases, etc.) are available. It is possible to construct additional user-defined material databases with the MatEdit tool.

To load a material from a material database into a colour within a project:

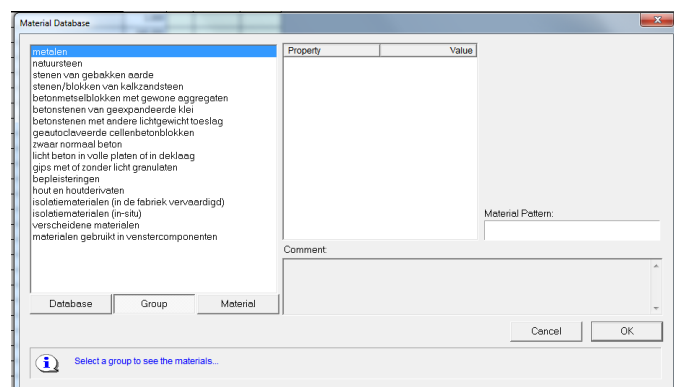
- Activate the desired colour by clicking it with the left mouse button (in the **Colours window**)
- Select the desired material from the material database: *Colours → Load Material... .*

To load material properties from a material database to the **colour database**:

- Open the colour database from within a project: *File → Open Colour Database.*
- Select a free colour or overwrite an existing colour (left mouse button) and load the desired material properties from the material database: *Colours → Load Material... .*



Col	Type	Subtype	Physical flow dir	Geometrical flow dir	Name	λ [W/mK]	θ [°C]	h [W/m²K]	n
0	MATERIAL					1.000			
1	MATERIAL					1.000			
2	MATERIAL					1.000			
3	MATERIAL					1.000			
4	MATERIAL				copper	380.000			
5	MATERIAL					1.000			
6	MATERIAL					1.000			
7	MATERIAL					1.000			
8	MATERIAL				aluminium	160.000			
9	MATERIAL				teak	35.000			
10	MATERIAL					1.000			
11	MATERIAL				stainless steel	17.000			
12	MATERIAL				hardwood	0.180			
13	MATERIAL				steel	50.000			
14	MATERIAL					1.000			
15	MATERIAL				softwood	0.130			
16	MATERIAL				basalt	3.500			
17	MATERIAL				limestone hard	1.700			
18	MATERIAL				soda lime				
19	MATERIAL								
20	MATERIAL								
24	MATERIAL				polycarbonate				



Left: Colour database and right: Material databases

¹The colour database is stored in :

- In BISCO v12: C:\Users\...\AppData\Roaming\Physibel\BISCO12\ColourDatabase.bsc
- In TRISCO v15: C:\Users\...\AppData\Roaming\Physibel\TRISCO15\ColourDatabase.trc
- In SOLIDO v5: C:\Users\...\AppData\Roaming\Physibel\SOLIDO5\ColourDatabase.sld
- In Trisco2D v2: C:\Users\...\AppData\Roaming\Physibel\Trisco2D2\ColourDatabase.tr2
- In BISTRA v5: C:\Users\...\AppData\Roaming\Physibel\BISTRA5\ColourDatabase.bst