

Problem info

Problem type: Transient Electric (integration time: 9.99999977648258E-03 s.)

Geometry model class: Plane-Parallel

Problem database file names:

- Problem: *IMPULSO.pbm*
- Geometry: *Impulso.mod*
- Material Data: *Impulso.dtv*
- Material Data 2 (library): *Impulso.dtv*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

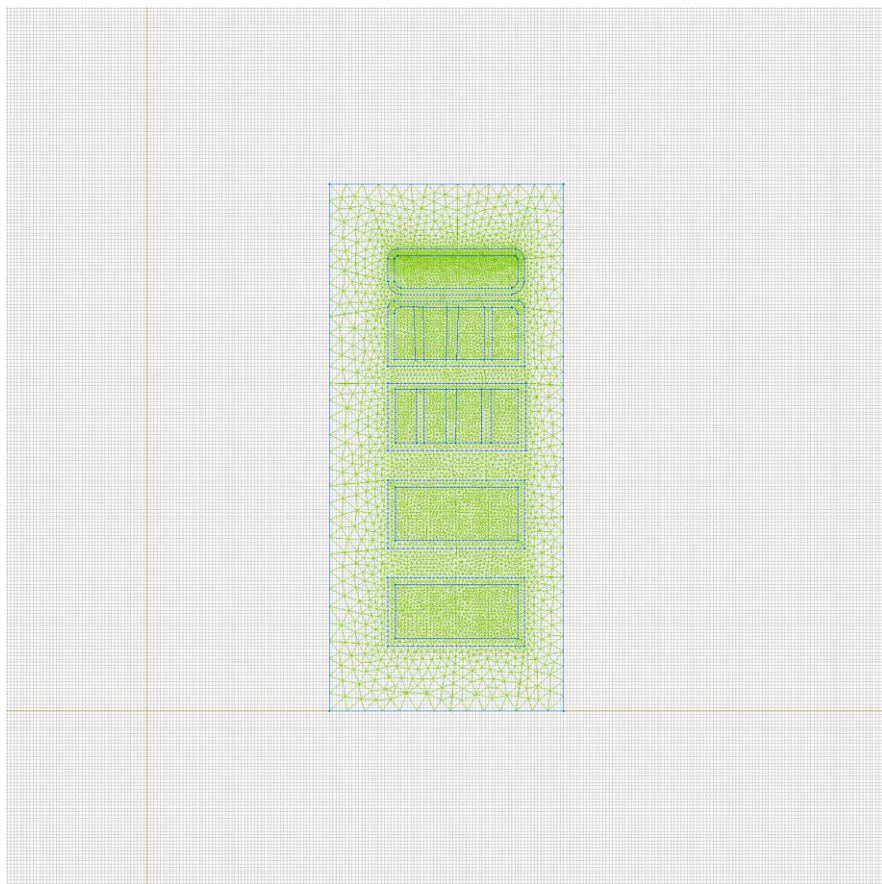


Table 1. Geometry model statistics

	With Label	Total
Blocks	4	23
Edges	5	92
Vertices	0	80

Number of nodes: 6876.

Labelled objects

There are following labelled objects in the geometry model (Material Data file could contain more labels, but only those labels that assigned to geometric objects are listed)

Blocks:

- [rame](#)
- [carta](#)
- [legno](#)
- [olio](#)
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Edges:

- [anello](#)
- [lato orizz](#)
- [conduttore](#)
- [lato vert 1](#)
- [conduttore1](#)
-

Vertices:

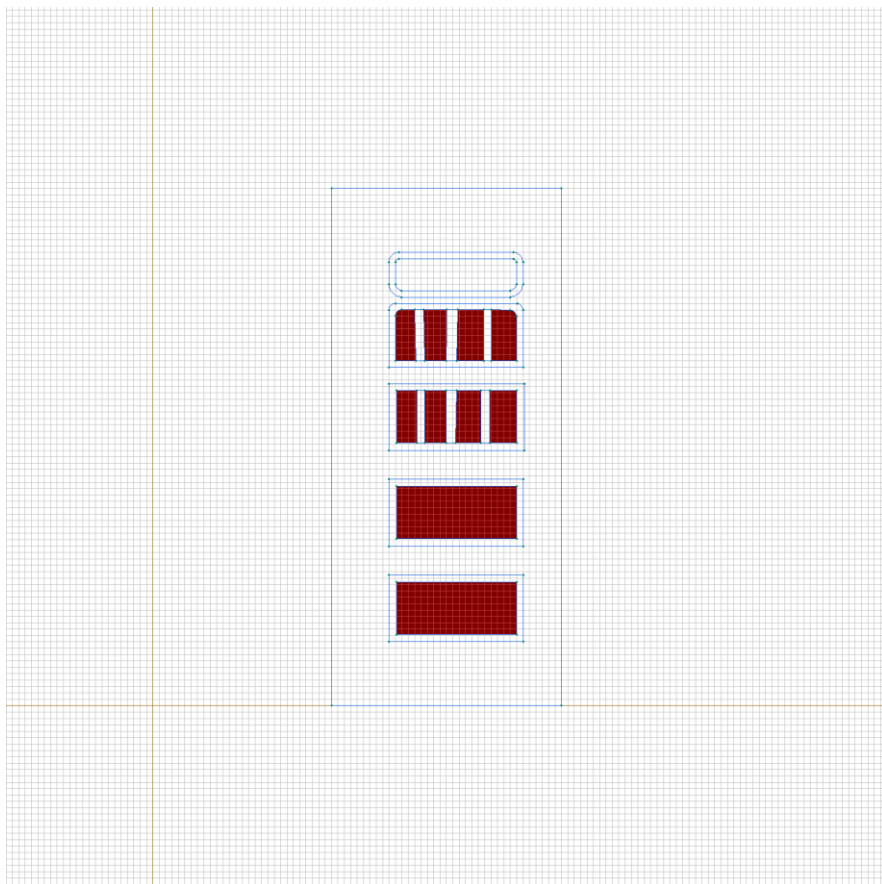
Detailed information about each label is listed below.

Labelled objects: block "rame"

There are (10) objects with this label

Relative electric permittivity: $\epsilon_{x,y}=1$

Electrical conductivity: $\sigma_{x,y}=0$ S/m, $\sigma_{y,z}=0$ [S/m]

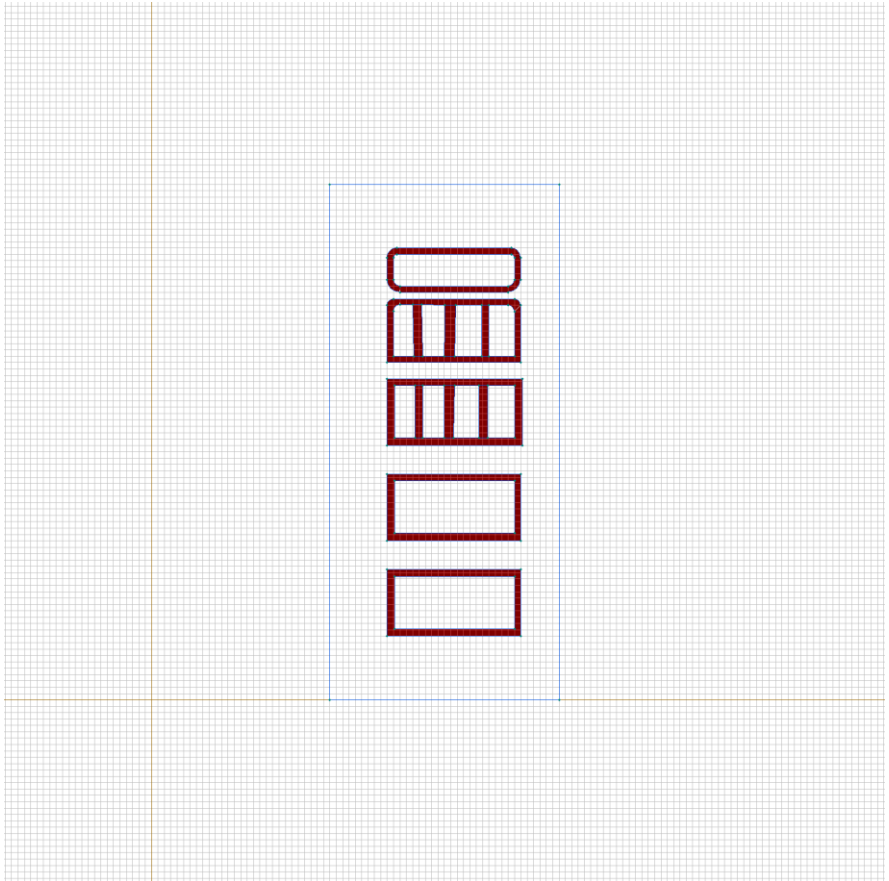


Labelled objects: block "carta"

There are (11) objects with this label

Relative electric permittivity: $\epsilon_{sx}=3.5$, $\epsilon_{sy}=3.5$

Electrical conductivity: $\sigma_x=0$ S/m, $\sigma_y=0$ [S/m]

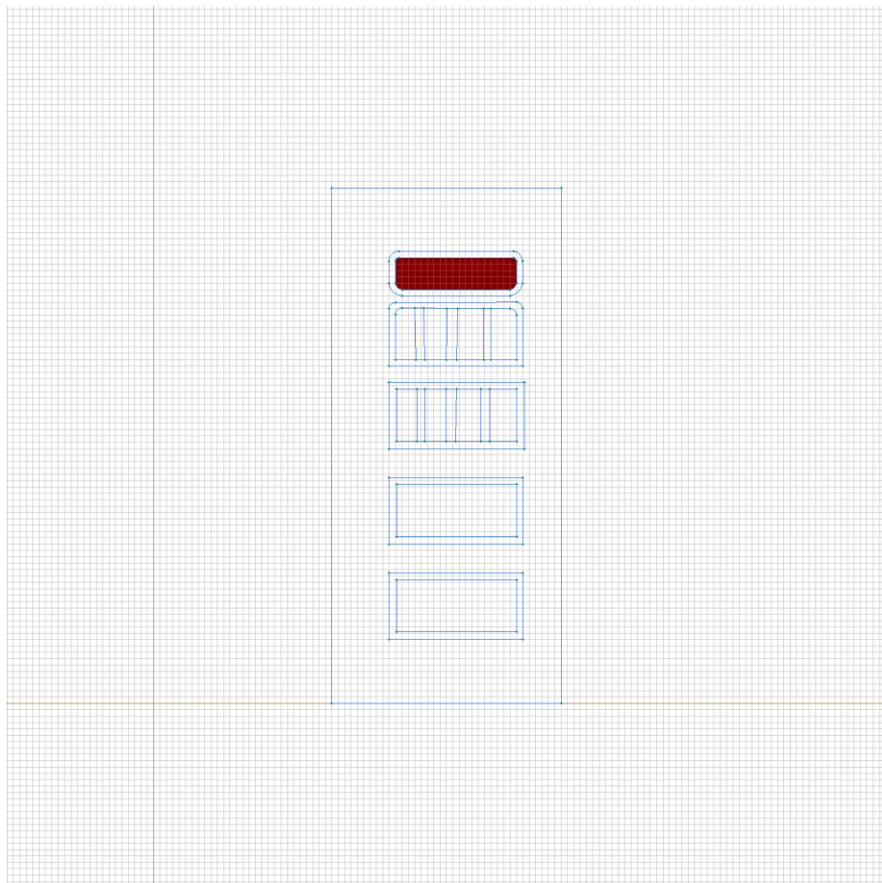


Labelled objects: block "legno"

There are (1) objects with this label

Relative electric permittivity: $\epsilon_{sx}=1$, $\epsilon_{sy}=1$

Electrical conductivity: $\sigma_x=0$ S/m, $\sigma_y=0$ [S/m]

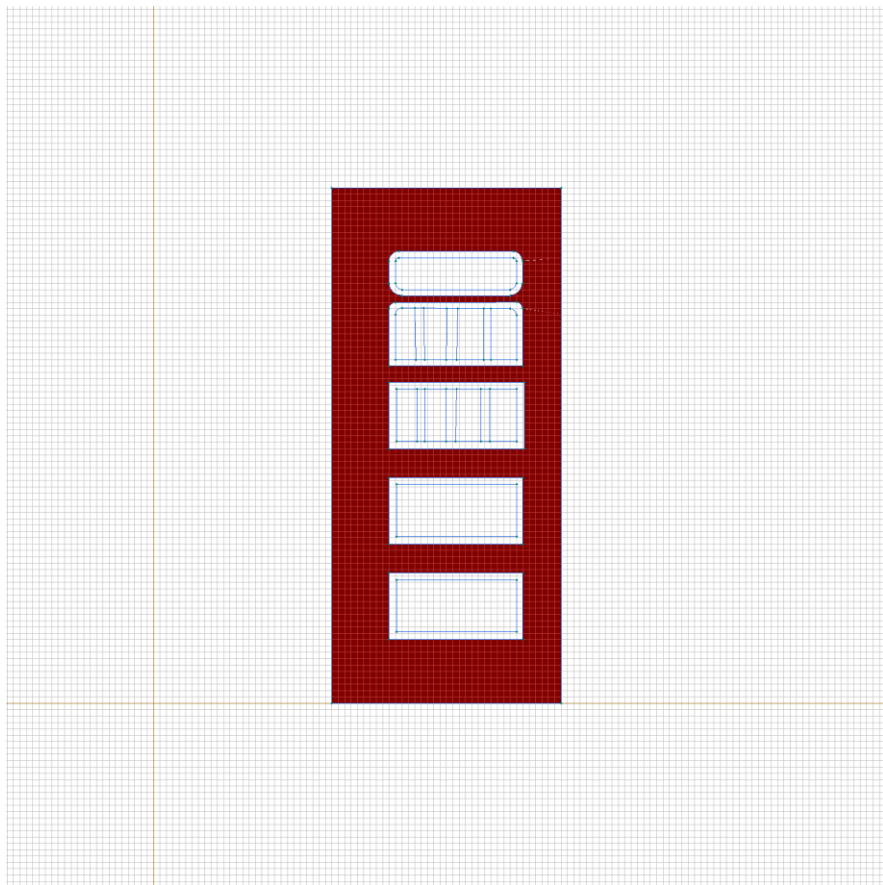


Labelled objects: block "olio"

There are (1) objects with this label

Relative electric permittivity: $\epsilon_{x,y} = 2.2$

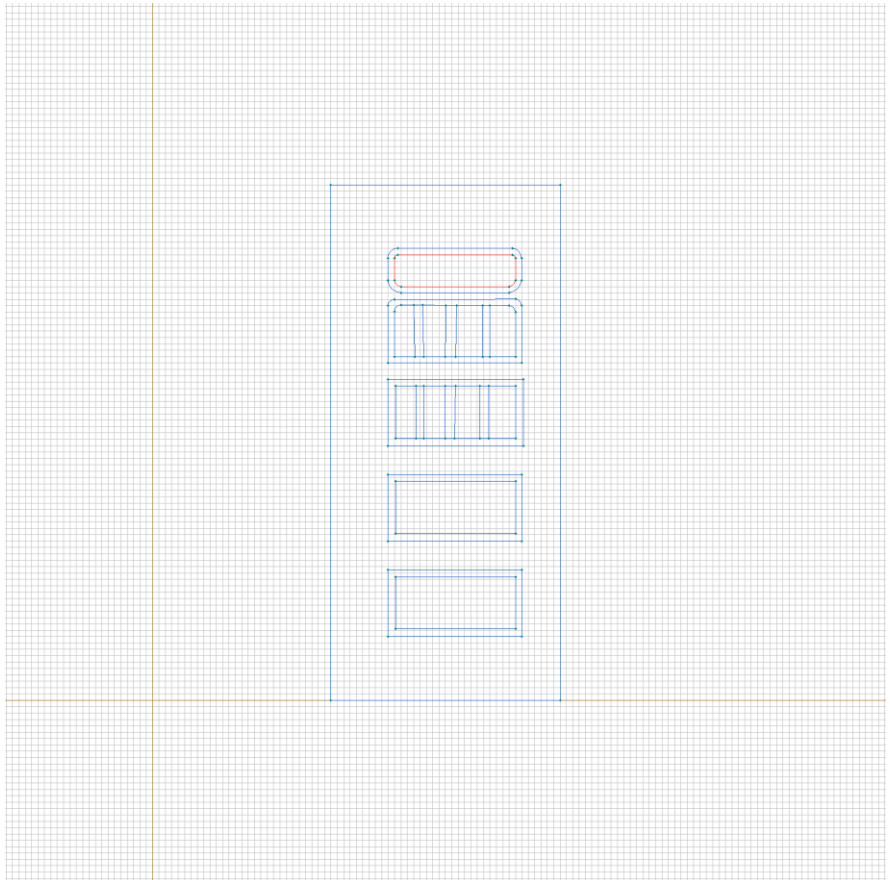
Electrical conductivity: $\sigma_x = 0$ S/m, $\sigma_y = 0$ [S/m]



Labelled objects: edge "anello"

There are (8) objects with this label

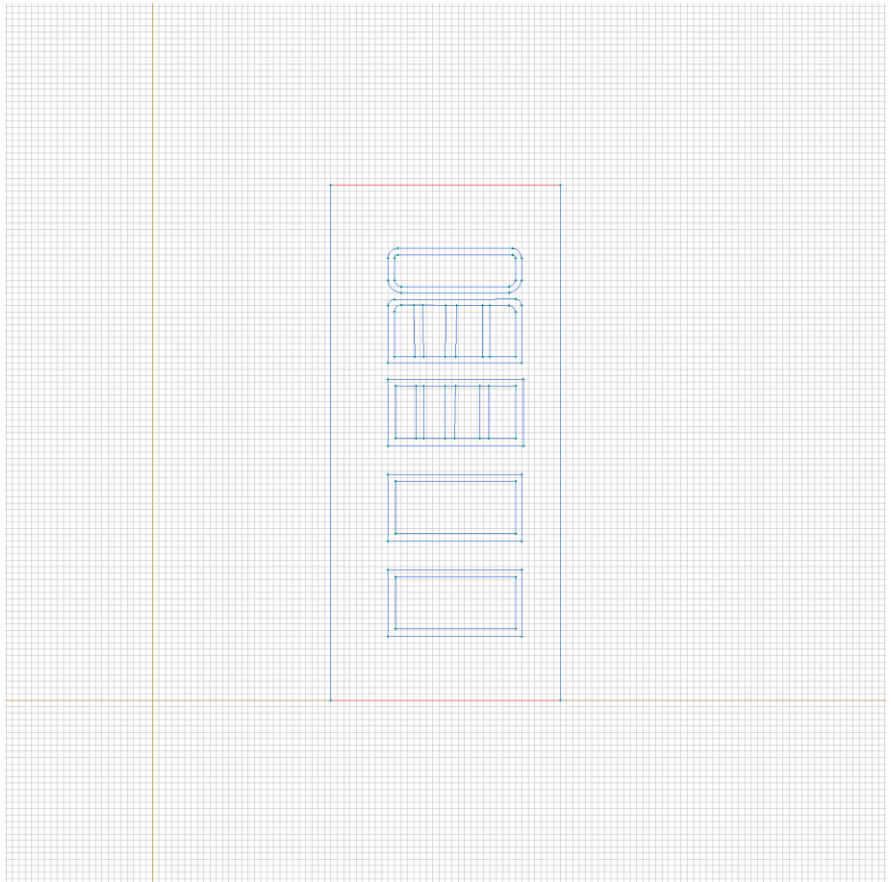
Voltage: $U = 100000 \cdot (1 - 1/e^t)$ [V]



Labelled objects: edge "lato orizz"

There are (2) objects with this label

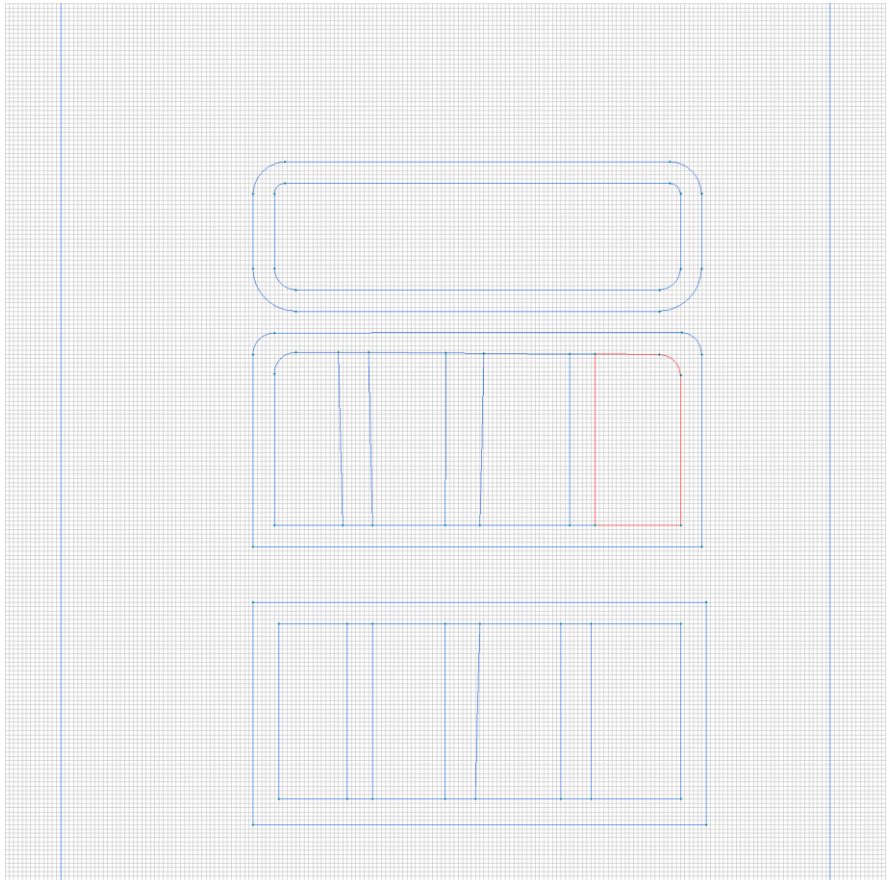
Voltage: $U=0$ [V]



Labelled objects: edge "conduttore"

There are (5) objects with this label

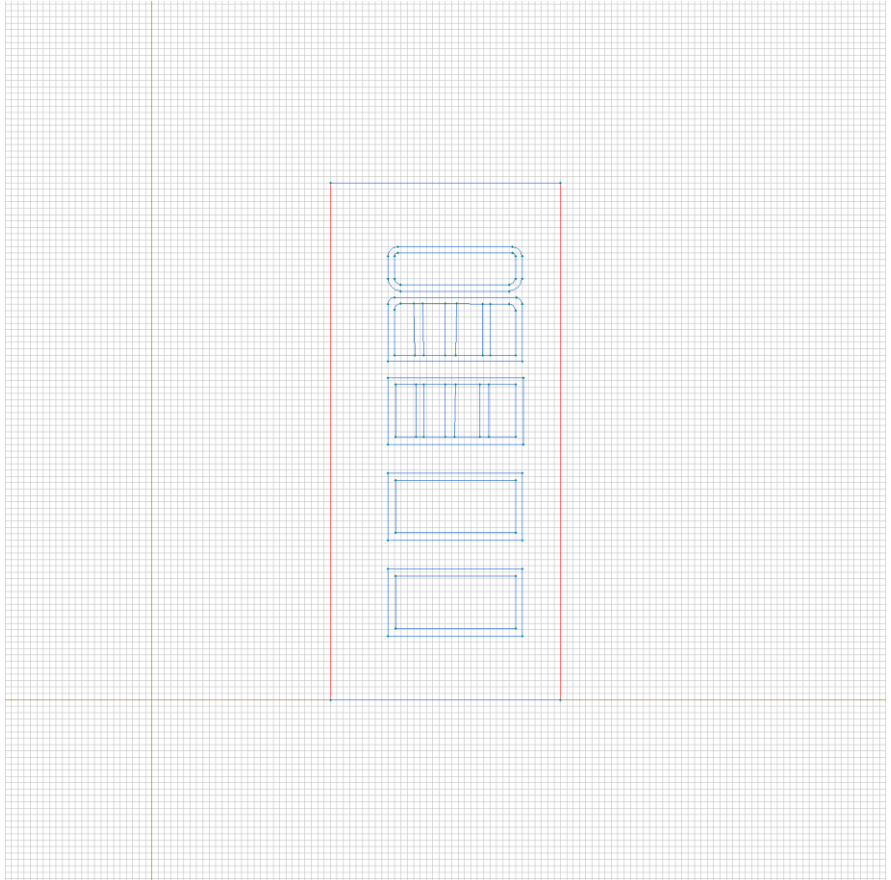
Voltage: $U = 100000 \cdot (1 - 1/e^t)$ [V]



Labelled objects: edge "lato vert 1"

There are (2) objects with this label

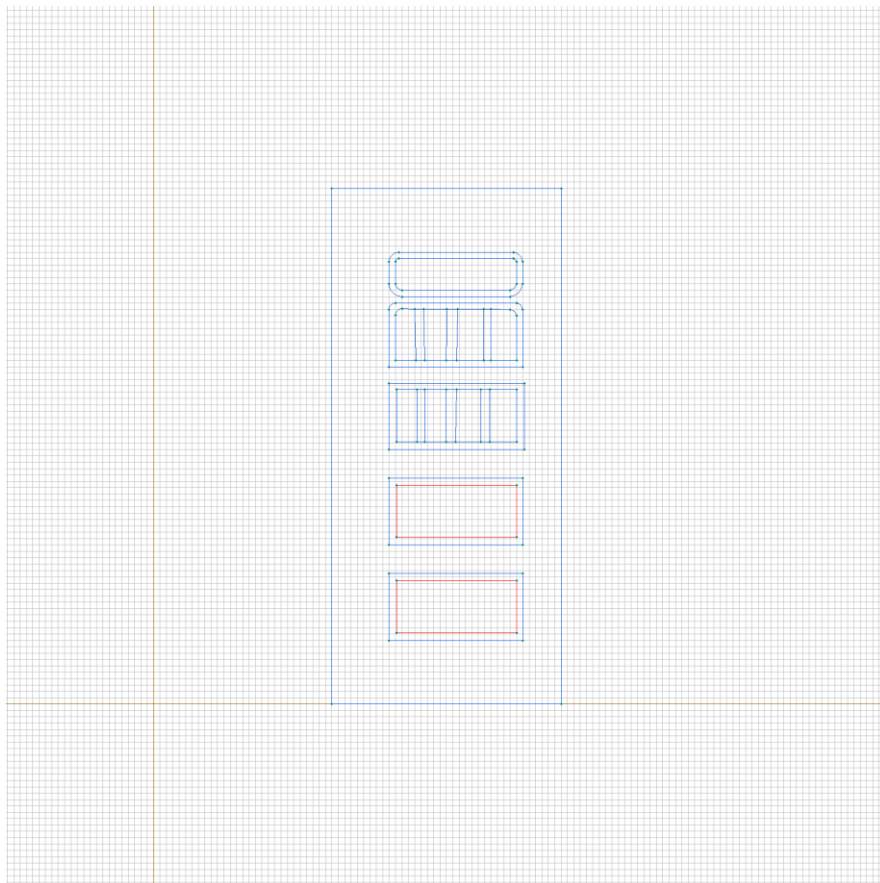
Voltage: $U=0$ [V]



Labelled objects: edge "conduttore1"

There are (8) objects with this label

No material data (boundary conditions) are specified



[Problem info](#)

[Geometry model](#)

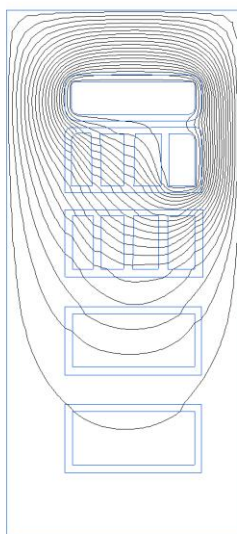
[Labelled Objects](#)

[Results](#)

[Nonlinear dependencies](#)

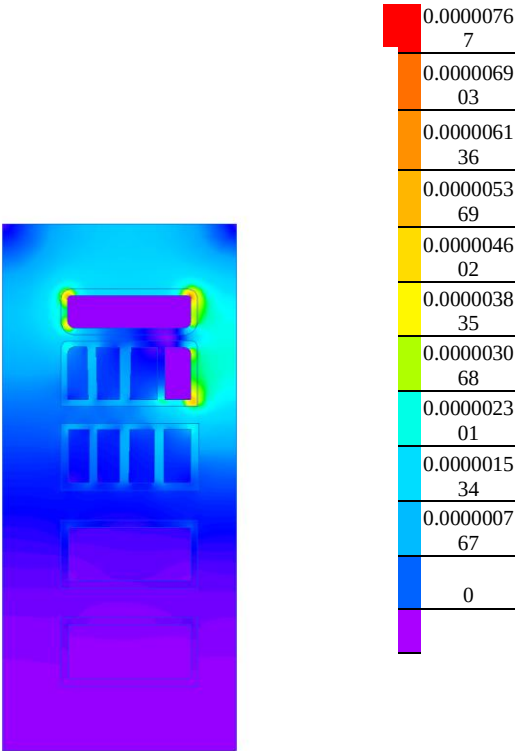
Results

Field lines



Results

Color map of Electric induction $|D|$ [C/m2]



Nonlinear dependencies

No non-linear dependencies are used in this problem data