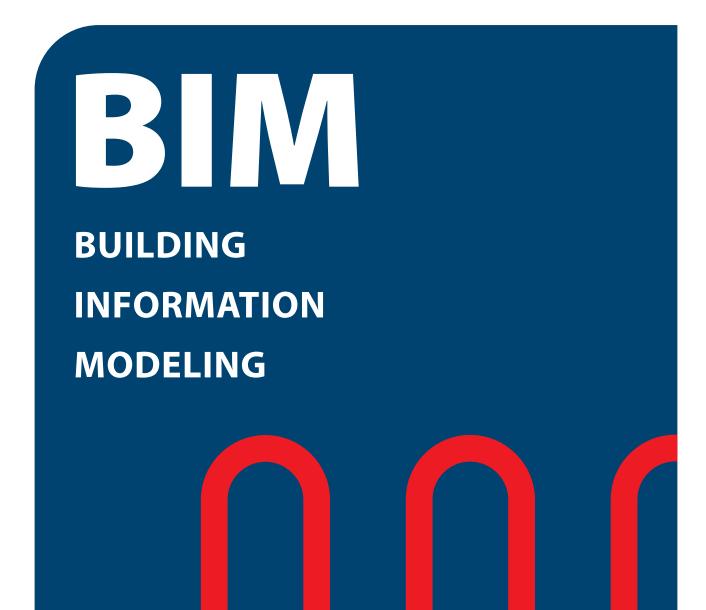
User guide

How to Use

BIM models of Electrical Heating Products



Make it easy, make it DEVI





Warnings: 1

- Use the schedule "_Danfoss Cables and Mats Result" to calculate the quantity of materials 1. for space heating has been uploaded to the project.
- To perform the calculation in the Schedule it is necessary to draw heating cables (System family of Conduit, e.g.: "DEVI flex 18T"), heating mats (Family Electrical Fixtures, e.g.: "DEVImat 150T") and use the Dynamo script "Danfoss DEVI Electric Heating_RM_(version).dyn"
- To properly count the number of cables and mats, verify that all elements are located within Rooms.
- Please check column "Room #" in the Schedule "_Danfoss Cables and Mats Result" to find items located inside and outside the Rooms.
- Do not rename/delete/edit the family parameters under Analysis Results. 5.
- Do not rename/delete/edit Drafting views whose name starts with "Danfoss..."

Workflow: 2

- Transfer Project standard with Conduit size to your project. 1.
- Copy families and schedules from this project into your project file. 2.

* Families:

- 1. Conduits System Families (Conduit with Fittings)
- 2. Conduits Fittings Families (Danfoss Elbow)
- **Electrical Fixtures Families** 3.

* Schedule:

- 1. Danfoss Cables and Mats Result
- 3. Create a layout plan with rooms defined in your project.
- Draw any "DEVI" conduits or mats, or both in accordance with the project requirements. 4.
- Electrical Fixtures Families are **host-based**. Please use face/reference plane/level as a host when you insert these items into a project.
- Load the dynamo script under Manage > Dynamo Player > Open folder with the script copied and **Play** to run.
- After the execution of the **Dynamo script**, whether in conjunction with Dynamo or Dynamo Player, the data within the Schedule will be updated.
- In the event that a design solution requires an update, it is necessary to run the script once more in order to update the data in the schedule.

3 **Dynamo script and schedule for Product Selection (Automation)**

- Danfoss DEVI Electric Heating_RM_(version).dyn 1.
- **Schedule: _Danfoss Cables and Mats Result**

BIM content for electric heating design:

1. Conduit System Families

DEVlaqua™ 9T, 230V DEVlaqua™ 9T, 400V

DEVlasphalt™ 30T

DEVIbasic™ 10S

DEVIbasic[™] 20S, 230V DEVIbasic[™] 20S, 400V

DEVIcomfort™ 10T

DEVIflex[™] 6T DEVIflex[™] 10T

DEVIflex[™] 18T DEVIflex[™] 30T

DEVliceguard™ 18 (T) Ready-made

DEVIpipeheat[™] 10 V3,

Ready-made with Danish plug

DEVIpipeheat™ 10 V3,

Ready-made with Schuko plug

DEVIsafe™ 20T

DEVIsnow[™] 20T, 230V DEVIsnow[™] 20T, 400V

DEVIsnow™ 30T, 230V with cold lead 2.3 m DEVIsnow™ 30T, 230V with cold lead 30 m

DEVIsnow™ 30T, 400V with cold lead 10 m

DEVIsnow™ 30T, 400V with cold lead 30 m

2. Conduit Fittings Families

DEVlaqua[™] 9T, 230V DEVlaqua[™] 9T, 400V DEVlasphalt[™] 30T DEVlbasic[™] 10S

DEVIbasic™ 20S, 230V DEVIbasic™ 20S, 400V DEVIcomfort™ 10T

DEVIflex™ 6T
DEVIflex™ 10T
DEVIflex™ 18T
DEVIflex™ 30T

DEVliceguard™ 18 (T) Ready-made

DEVlpipeheat[™] 10 V3,

Ready-made with Danish plug

DEVIpipeheat™ 10 V3,

Ready-made with Schuko plug

DEVIsafe™ 20T

DEVIsnow[™] 20T, 230V DEVIsnow[™] 20T, 400V

DEVIsnow[™] 30T, 230V with cold lead 2.3 m DEVIsnow[™] 30T, 230V with cold lead 30 m DEVIsnow[™] 30T, 400V with cold lead 10 m DEVIsnow[™] 30T, 400V with cold lead 30 m

3. Electrical Fixtures Families

DEVImat™ 70T

DEVImat™ 100T

DEVImat™ 150T

DEVImat™ 200T

DEVIcomfort™ 100T

DEVIcomfort™ 150T

DEVIheat™ 150S

DTCE 150T
DTCE 100T
DTCE 175T

DEVIsnow[™] 300T with cold lead 10m, 0.5m, 230V
DEVIasphalt[™] 300T with cold lead 10m, 0.5m, 230V
DEVIasphalt[™] 300T with cold lead 10m, 0.5m, 400V
DEVIsnow[™] 300T with cold lead 10m, 0.5m, 400V
DEVIsnow[™] 300T with cold lead 10m, 0.75m, 230V
DEVIsnow[™] 300T with cold lead 10m, 0.75m, 400V
DEVIsnow[™] 300T with cold lead 10m, 1m, 230V

DEVIsnow[™] 300T with cold lead 30m, 0.5m, 400V DEVIsnow[™] 300T with cold lead 30m, 0.75m, 400V DEVIsnow[™] 300T with cold lead 30m, 1m, 400V

DEVIsnow™ 300T with cold lead 10m, 1m, 400V

DEVlasphalt™ 300T with cold lead 10m, 0.75m, 400V

DEVlasphalt $^{\!\scriptscriptstyle M}\!$ 300T with cold lead 10m, 1m, 400V

DEVlasphalt[™] 300T with cold lead 30m, 0.5m, 400V

DEVIasphalt™ 300T with cold lead 30m, 0.75m, 400V

DEVlasphalt™ 300T with cold lead 30m, 1m, 400V









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