



Small or medium-scale focused research project (STREP)
FP7-SMARTCITIES-2013
ICT-2013.6.4 Optimizing Energy Systems in Smart Cities



DIMMER EXPLOITATION

DIMMER LIBRARY

Project: DIMMER – District Information Modelling and Management for
Energy Reduction
Project Duration: **2013.10.01 – 2016.09.30**
Grant Agreement number: **609084**
Collaborative Project

THE DIMMER LIBRARY

The DIMMER library of Revit components has been created in order to give professionals the chance to use the DIMMER standard within their projects. The starting point for the creation of the library was the TABULA project; for each case study a construction typology was identified .

The components were created in order to be useful in performing energy simulation; for this reason, details on the appearance of the material were not well-finished. The DIMMER library is available on the DIMMER website, from which several components can be downloaded.

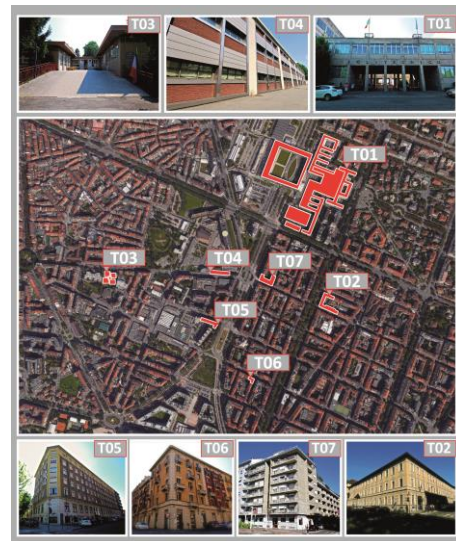
AVAILABLE DOCUMENTS

Documents available for download:

- A .rvt file for each family (Turin Dimmer Library_wall, Turin Dimmer Library_floor, Turin Dimmer Library_roof);
- A .rte file, as example of a project file;
- A .ifc format;
- The DIMMER Library, where all materials used in the structure of components are stored (.adsklib format);

CASE STUDIES

1. T01:
Politecnico di Torino, Turin
2. T02:
Primary school Michele Coppino, Turin
3. T03:
Kindergarten Paolo Braccini, Turin
4. T04:
Turin Municipality Smart City Directorate, Turin
5. T05:
University student accomodation Renato Einaudi, Turin
6. T06:
Building Pigafetta 52, Turin
7. T07:
Building Mediterraneo 130, Turin



NOMENCLATURE

Each .rvt file contains several types of components, named as following: Ncasestudy_component_phase.

1. Turin Dimmer Library_wall

In this family the following type of walls are included:

External walls

- T01_ext wall_01
- T02_ext wall_01



- T03_ext wall_01
- T04_ext wall_01
- T05_ext wall_01
- T06_ext wall_01
- T07_ext wall_01

Internal Partitions:

- T01_int wall_01
- T02_int wall_01
- T03_int wall_01
- T04_int wall_01
- T05_int wall_01
- T06_int wall_01
- T07_int wall_01

2. Turin Dimmer Library_floor

In this family the following type of floors are included:

Floors

- T01_floor_01
- T02_floor_01
- T03_floor_01
- T04_floor_01
- T05_floor_01
- T06_floor_01
- T07_floor_01

3. Turin Dimmer Library_roof

In this family included the following type of roofs are:

Roofs:

- T01_floor_01
- T02_floor_01
- T03_floor_01
- T04_floor_01
- T05_floor_01
- T06_floor_01
- T07_floor_01

The DIMMER material library contains all the materials used in the case studies of pilot districts, renamed in the following way: Ncase study_material_phase, for example: T04_brick_01.