

JUNIOR > TASK

Competitors in the JUNIOR Section can be highschool students or they can be enrolled in the 1st or 2nd year at a university in the AEC field (architecture, engineering, construction).

Competitors must respect calendar dates, procedures and registrations. All entries must be received by July 2nd, 12:00pm EEST. The project must be submitted in a PDF format (upload directly on the competition site) and in Allplan format (zip+inf - upload to Dropbox, Google Drive, WeTransfer or a similar service and send us the link in the Submit your Project form).

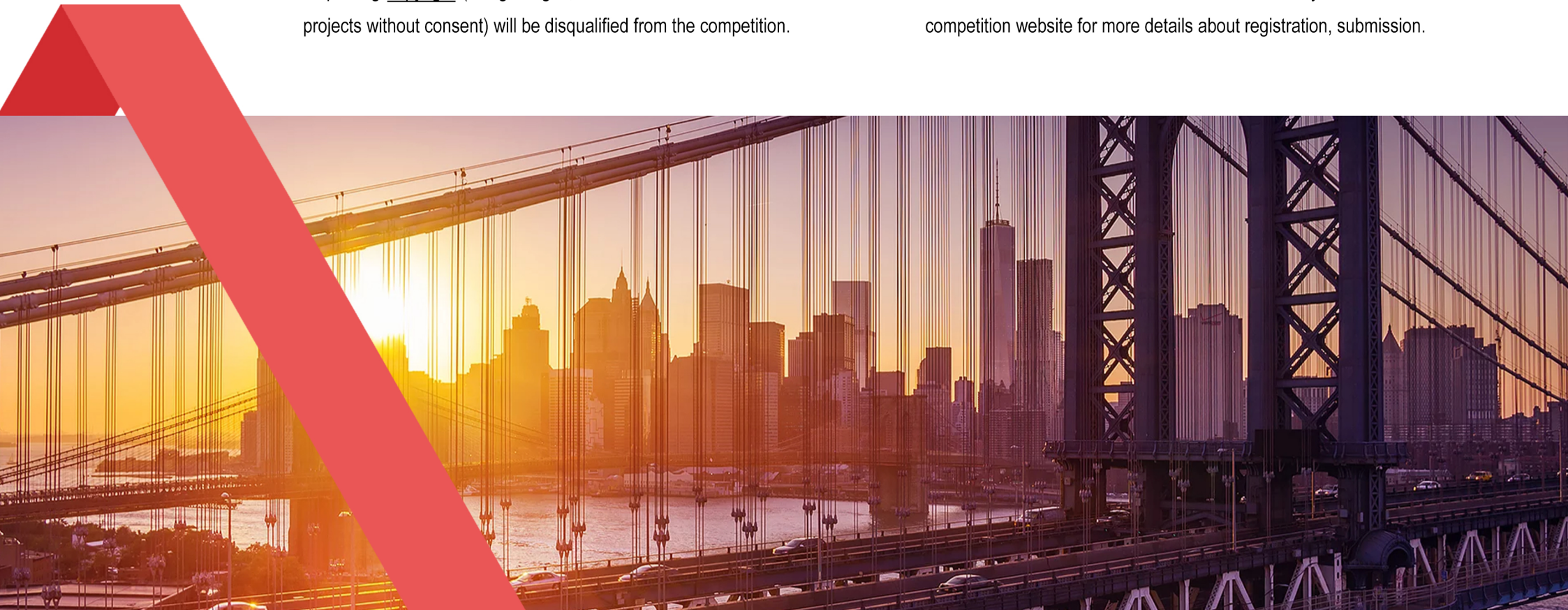
Competitors will use the layout and label provided by the organizer which will be available for download on the competition website.

All the submitted material must belong to the participant. Competitors not respecting copyright (using images, texts or drawn elements from other projects without consent) will be disqualified from the competition.

Each entry in the section JUNIORS - Building facilities will consist of two vertical layouts which will include the following:

- A brief description of the project (max. 500 words)
- Dimensioned plan for every installation - sanitary and ventilation system (scale 1:50 or 1:100)
- Isometrical view of every installation - sanitary and ventilation system (scale 1:50 or 1:100)
- Hidden line isometrical view of every installation (scale 1:50 or 1:100)
- Isometrical view of all the building facilities - the separate systems will be overlaid for a general overview (scale 1:50 or 1:100)

Additional information is welcome but not mandatory. See RULES on the competition website for more details about registration, submission.



EVALUATION CRITERIA

- the corectness and efficiency of the routes <
- the correct placement of the users (sanitary objects, <
diffusers, etc.)
- the correct definition of the users (see above) <
- the organization of the project (especially in the Derived <
from the building structure section)
- the quality and the level of detail <
of the presentation layouts

BUILDING FACILITIES

Build a 3D model of a residential building with a total area of maximum 300 sq.m. or download the provided architectural model and create the building facilities following the criteria listed below:

BIM CRITERIA

- a building structure with at least 2 levels;
- architectural elements: straight walls, window and door openings, columns, slabs, roof plane and roof covering, rooms;

SANITARY INSTALLATION

- the selection, placement and definition of the 3D sanitary objects;
- drawing the route for the hot and the cold water;
- connecting the sanitary objects to the appropriate routes;
- automatically dimensioning the hot and the cold water systems;
- labeling pipes; lists of miscarriages, bill of quantities;

VENTILATION SYSTEM

- the selection and placement of diffusers;
- drawing the route for the ventilation system;
- connecting the diffusers to the route;
- automatically dimensioning the ventilation system;
- labeling pipes; lists of miscarriages, bill of quantities.

