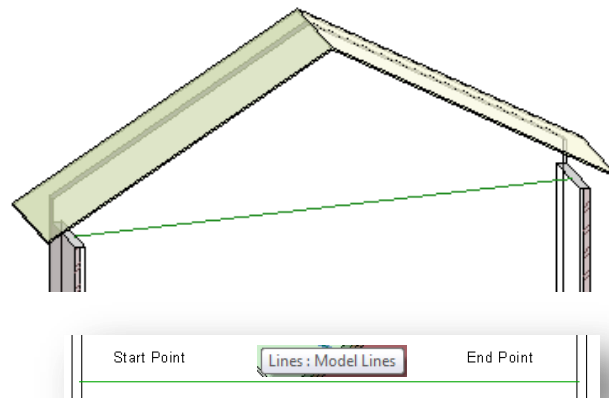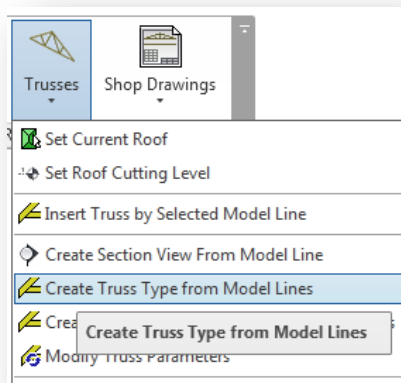# METAL FRAMING TRUSS+
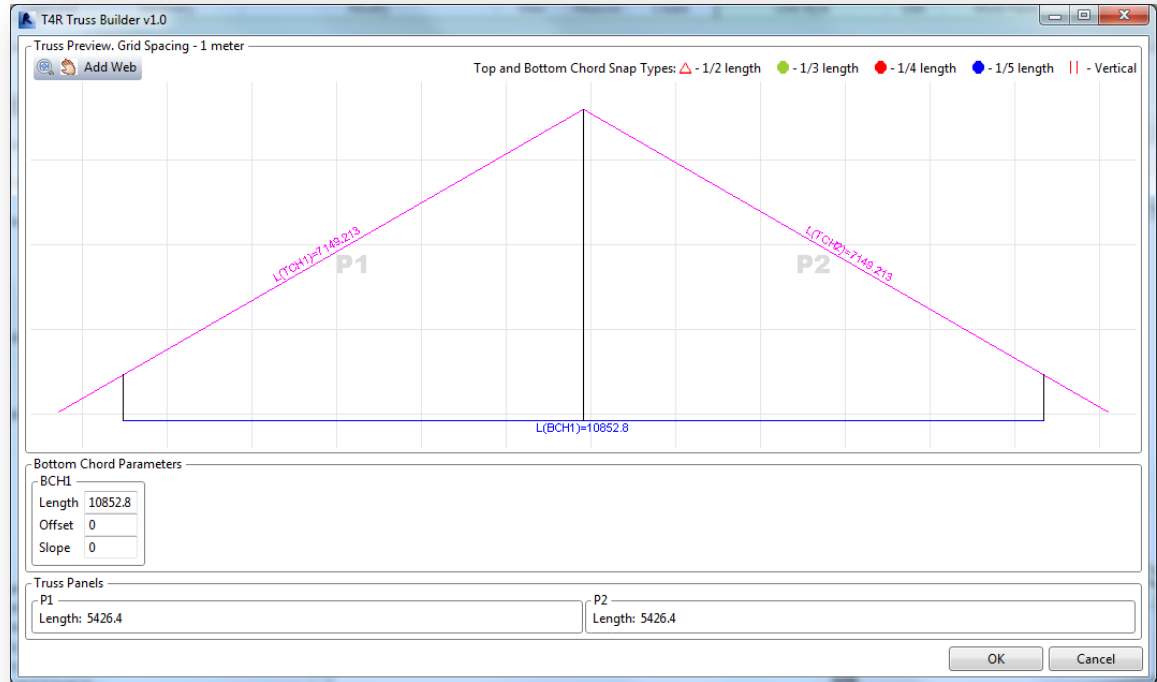## Create Truss Type by Model Line

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Create Truss Type by Model Line

- Draw Model line in the plan from one wall core to another wall core (or from-to support elements) on correct level (level of wall's top).
- Start and end points of Model line will also be the start and end points of truss.
- Start and end points must be in correct positions - middle points (center line) of the heel webs.
- Select Model line and run the *Create Truss Type from Model Lines* function directly from "Truss+" menu.
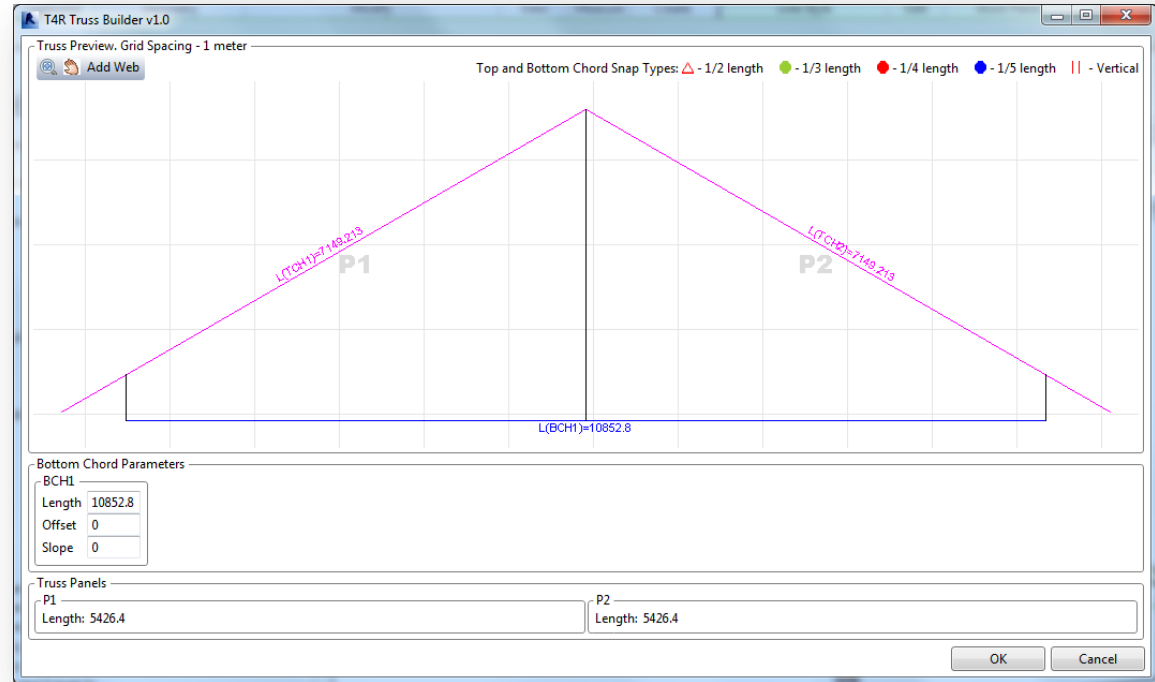
Create Truss Type by Model Line

- Pick the roof for the first time if software asks or use *Set Current Roof* function in the beginning.
- Software opens the graphic window of **T4R Truss Builder**.
- There are three graphic window commands: Zoom, Pan and Add Web.
- Colored symbols in the right top tile of the graphic window show all snap types which are visible and can be used when adding new webs.
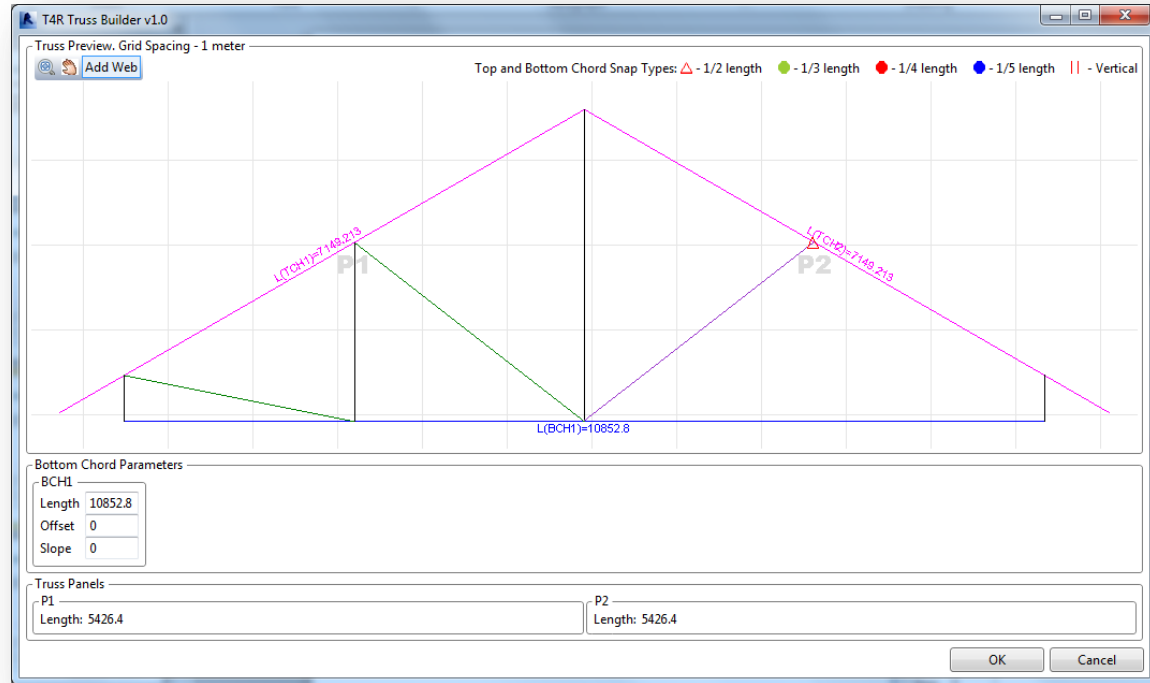
Create Truss Type by Model Line

- Main geometrical parameters of the new truss boundary are shown; in the bottom tile of window.
- Boundary of new truss is divided into the panels: P1,P2, …. Number of panels depend on the number of roof slopes (number of top chord slopes) and the number of bottom chord slopes.
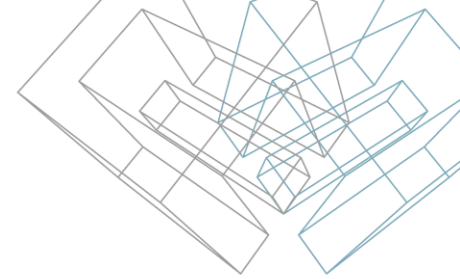
Create Truss Type by Model Line

- With the *Add Web* command user can draw vertical and diagonal webs.
- Start and end points of webs connect to the nearest snap points of top and bottom chords.
- To delete a web – select it and push the *Delete* button on your keyboard.
- When the profile of the truss is ready, push *OK* button on the graphic window.

Create Truss Type by Model Line

- New dialog window opens to define a new truss family name and it's global parameters in the project: 'Truss Group', 'Framing Member Mark' and 'Truss Type Description'.
- Correct selection of Truss Group allows select this truss in different functions like *Generate Trusses by System Grid.*
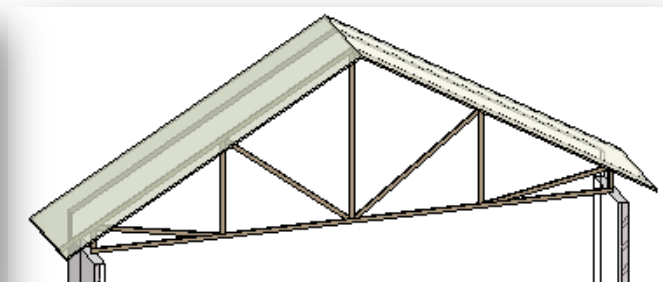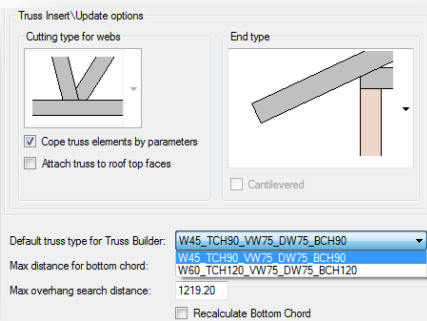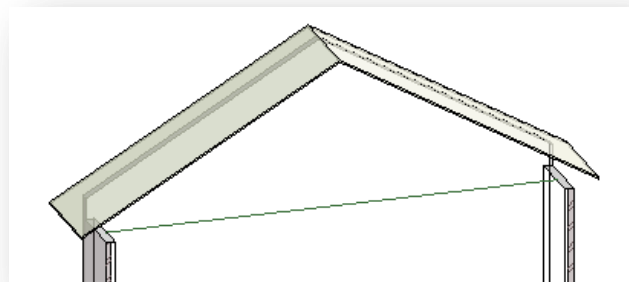- 'Family Name', 'Framing Member Mark' and 'Truss Type' description depends on the user's wish.
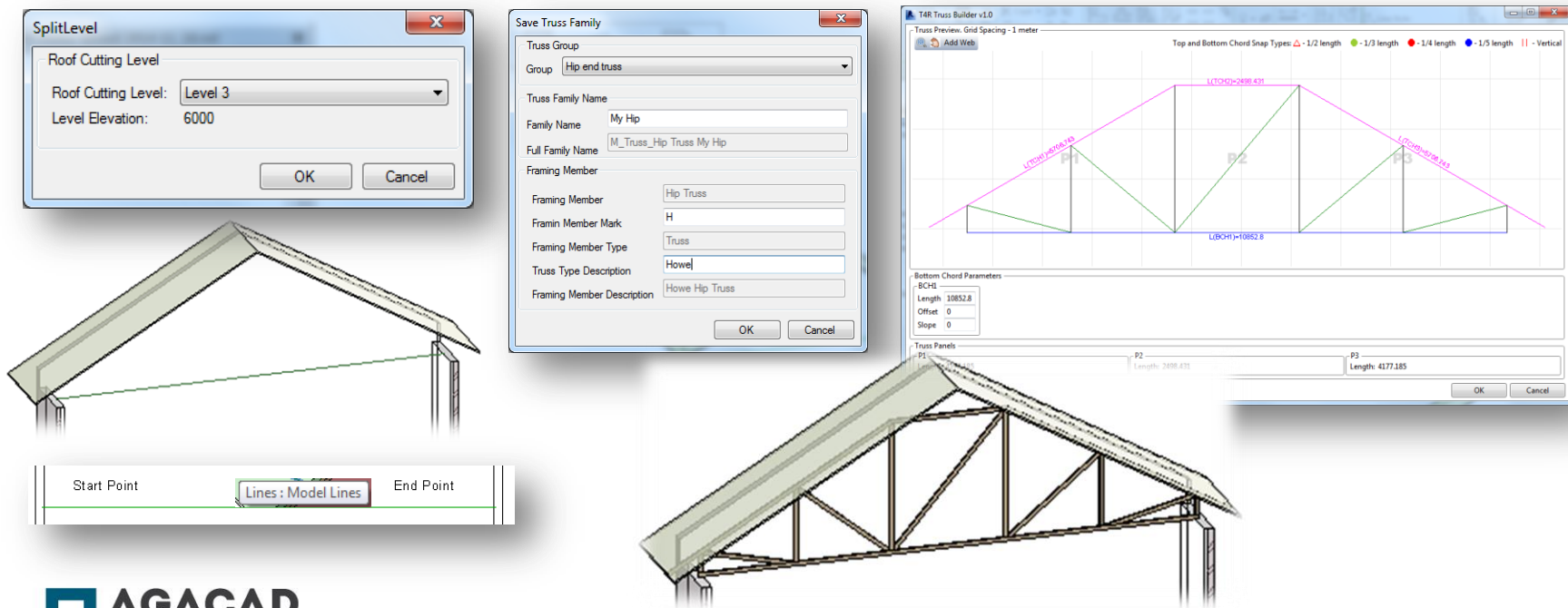
Create Truss Type by Model Line

- New truss family is automatically inserted in place of Model line.
- Types of chords and webs used in new truss depend on *Truss Design Settings – Default truss type for Truss Builder.*
- Number of bottom chords depends on *Truss Design Settings – Max distance for bottom chord.* Bottom chord splits in the middle of truss or in location of the nearest ridge.
- This new truss family can be used in other roof framing functions like *Generate Trusses, Copy/Array/AutoArray Truss* and other.
- New truss family can be used if number of top chord slopes is equal to the number of roof slopes.
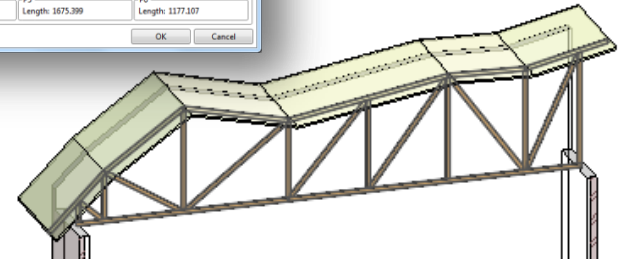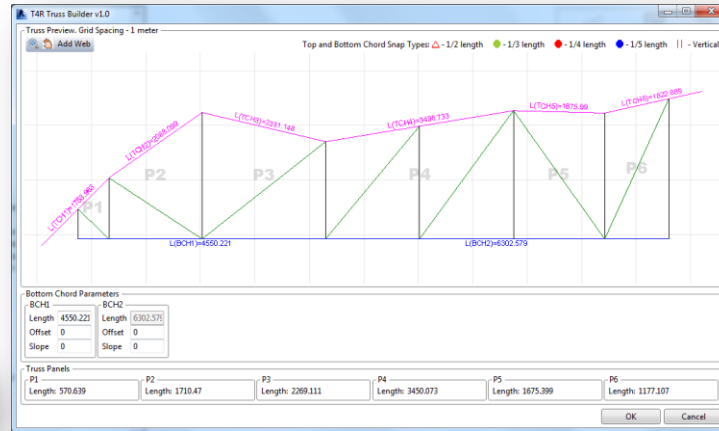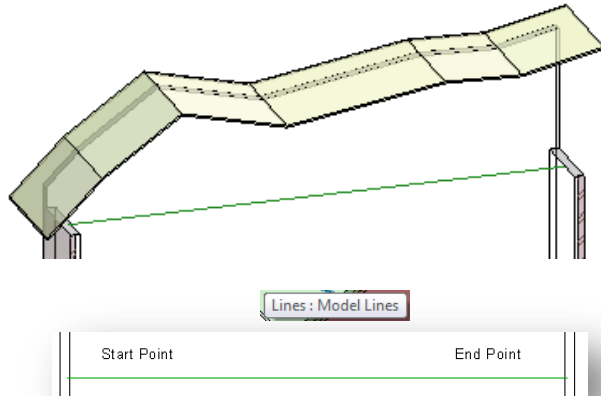
Create Truss Type by Model Line

- It is possible to generate other profile of truss if Roof Cutting Level is set to corresponding level.

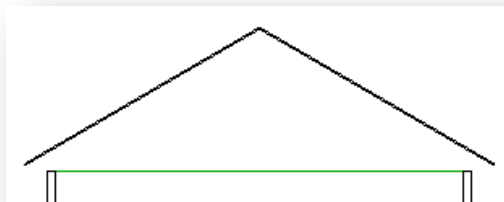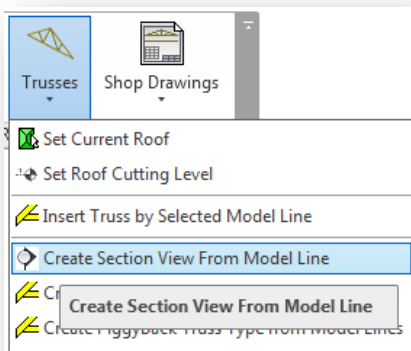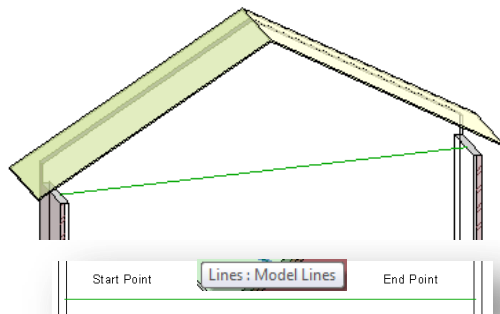# Create Truss Type by Model Line

- **Truss Builder** works well in case of multi pitched roofs too.
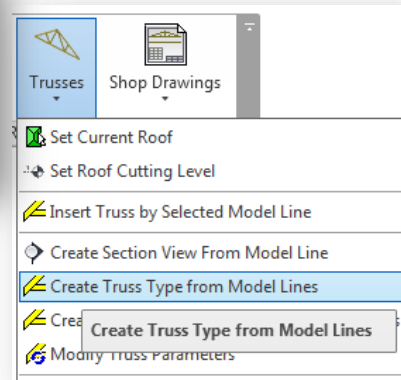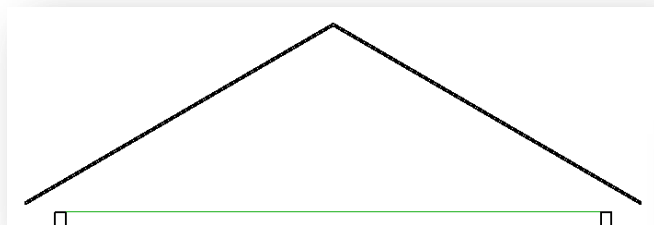
Create Truss Type by Model Line

With the **Truss Builder** user can create a new truss with multi pitched bottom chord in the following way:

- Draw Model line in the plan from one wall core to another (or from-to support elements) on correct level (level of wall's top).
- Start and end points of Model line will be start and end points of the truss.
- Start and end points must be in correct positions: middle points (center line) of the heel webs.
- Select Model line and run *Create Section View by Model Line.*
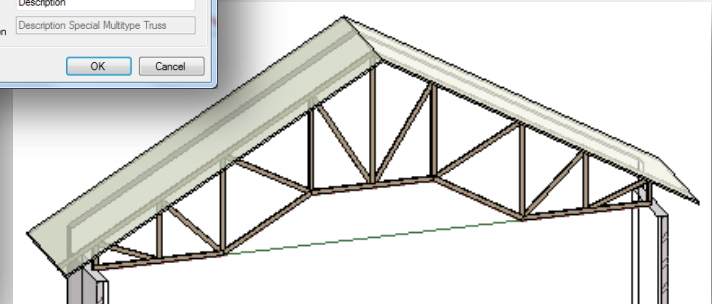

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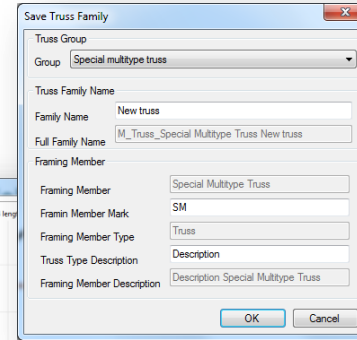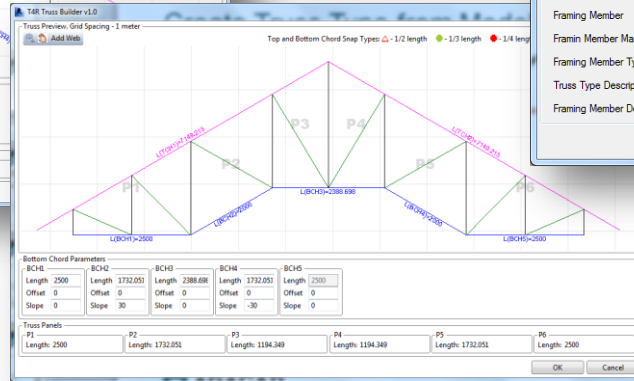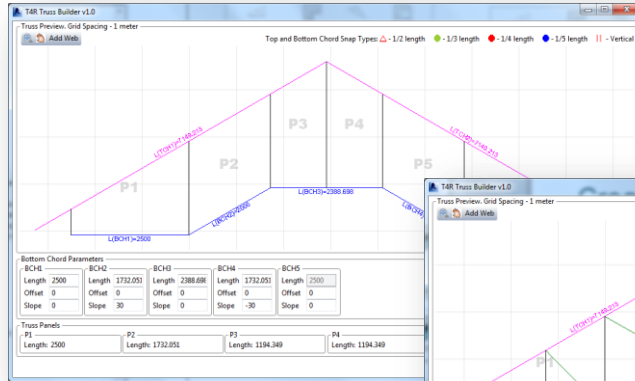BUILDING BIM TOGETHER | www.aga-cad.com

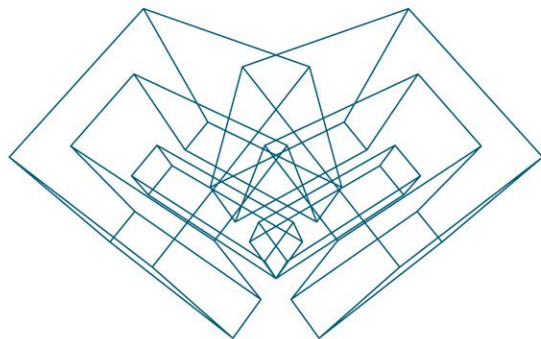# Create Truss Type by Model Line

- Use Model line to correctly draw a profile of bottom chord in new created section view.
- Select new Model lines and run the *Create Truss by Model Line* function from "Truss+" menu.

Create Truss Type by Model Line

- Draw webs in the graphical window of **Truss Builder**.
- Select Group, write new truss family name and fill values of other parameters.
- New truss will be created in the place of Model line. Section view will be automatically deleted.

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