

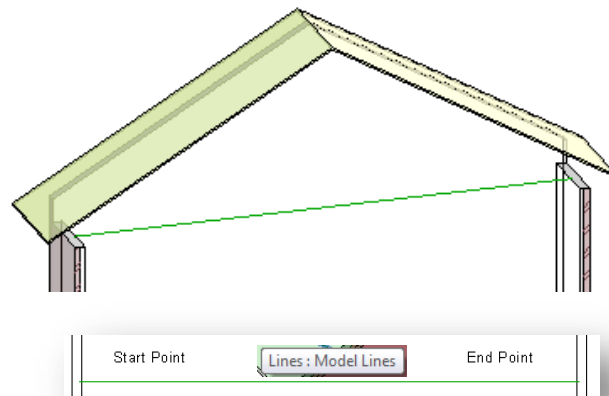
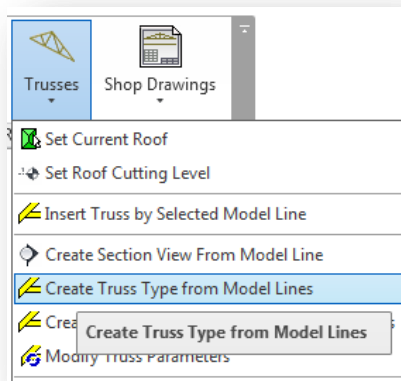


# TRUSS+

## Create Truss Type by Model Line

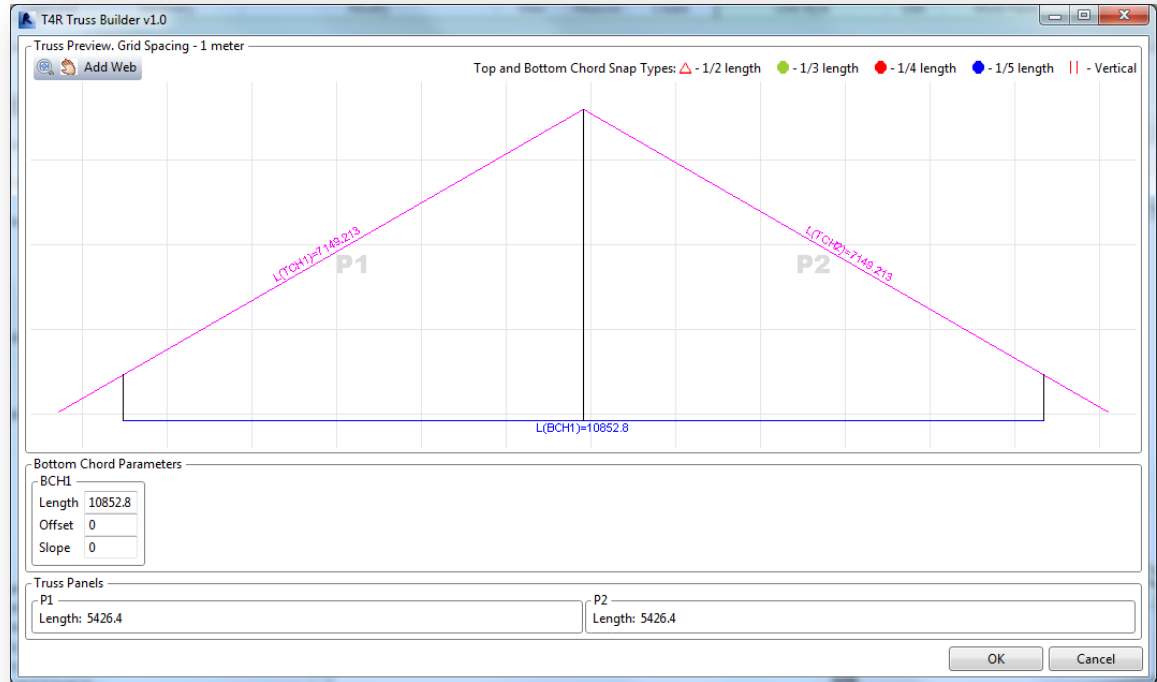
# Create Truss Type by Model Line

- 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.



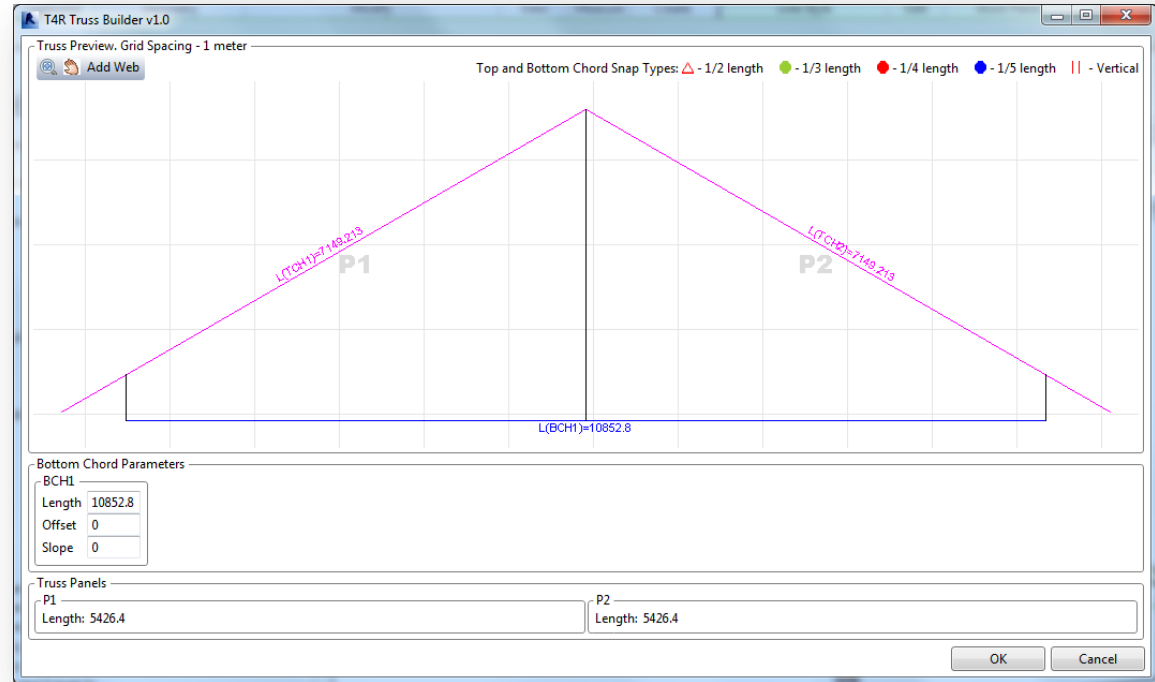
# Create Truss Type by Model Line

- 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.



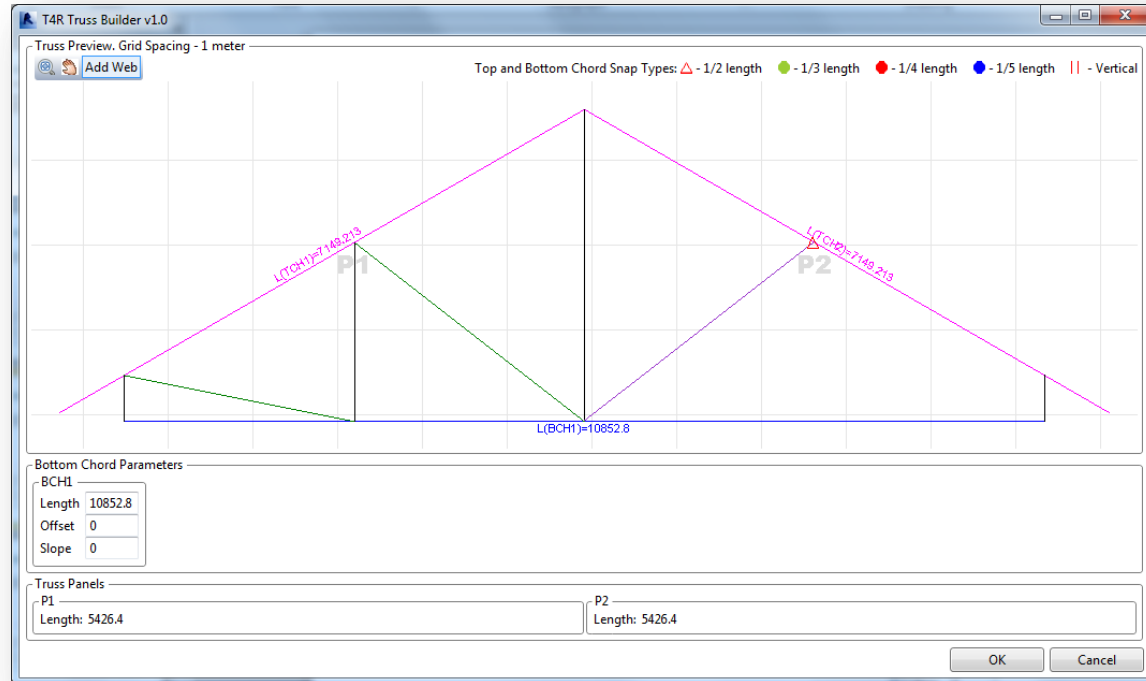
# Create Truss Type by Model Line

- 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.

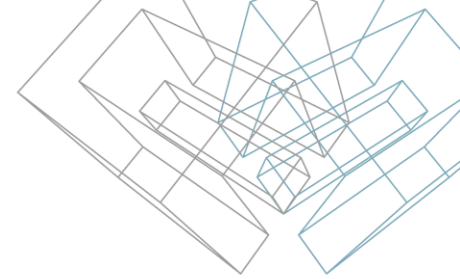


# Create Truss Type by Model Line

- 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 its 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.

Save Truss Family

Truss Group  
Group: Special multitype truss

Truss Family Name  
Family Name: New truss  
Full Family Name: M\_Truss\_Special Multitype Truss New truss

Framing Member  
Framing Member: Special Multitype Truss  
Framin Member Mark: SM  
Framing Member Type: Truss  
Truss Type Description: Description  
Framing Member Description: Description Special Multitype Truss

OK Cancel

Save Truss Family

Truss Group  
Group: Special multitype truss

Truss Family Name  
Truss Family Name: Special multitype truss

Framing Member  
Framing Member: Special multitype truss  
Framin Member Mark: SM  
Framing Member Type: Truss  
Truss Type Description: Description  
Framing Member Description: Description Special Multitype Truss

OK Cancel

Save Truss Family

Truss Group  
Group: Common truss

Truss Family Name  
Family Name: My Howe  
Full Family Name: M\_Truss\_Common Truss My Howe

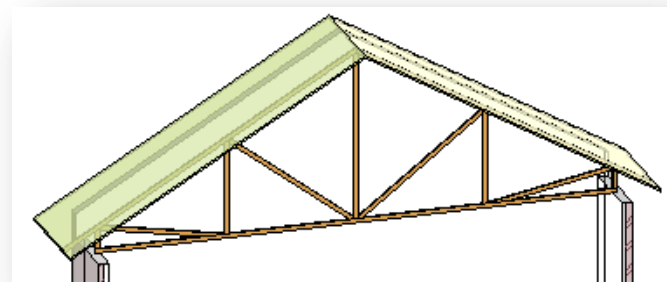
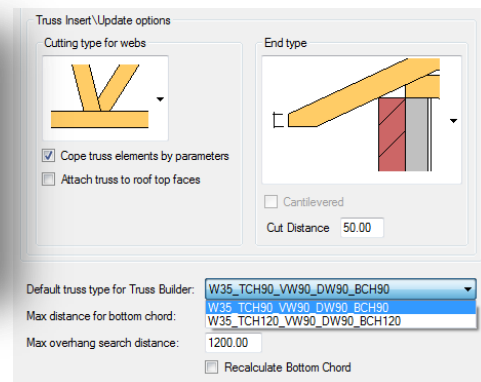
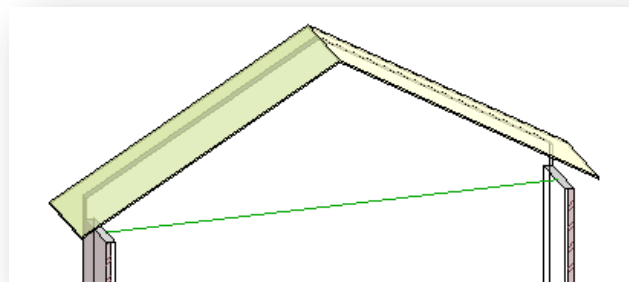
Framing Member  
Framing Member: Common Truss  
Framin Member Mark: C  
Framing Member Type: Truss  
Truss Type Description: Howe  
Framing Member Description: Howe Common Truss

OK Cancel



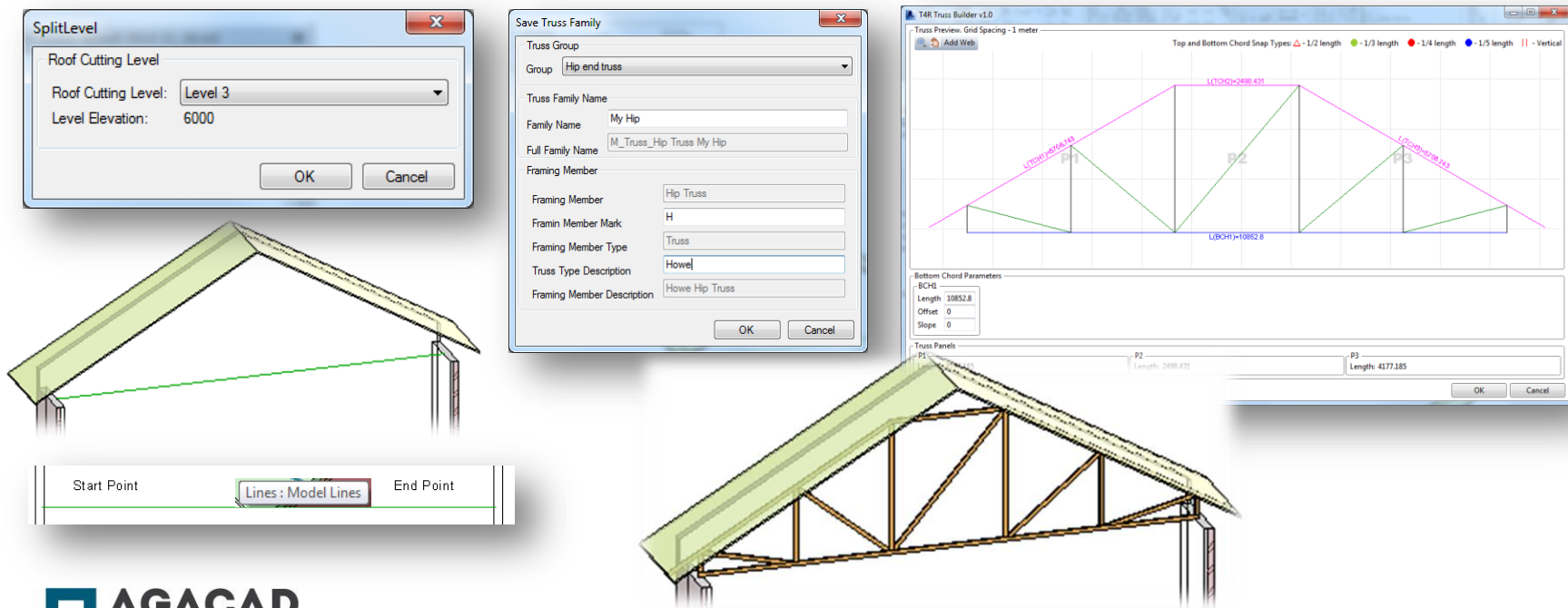
# Create Truss Type by Model Line

- 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

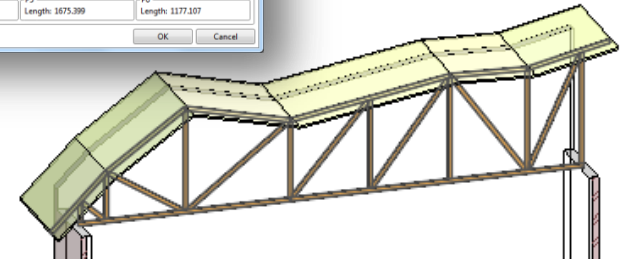
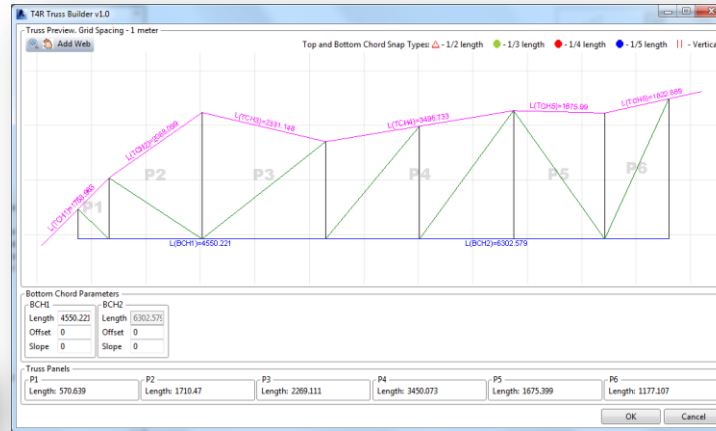
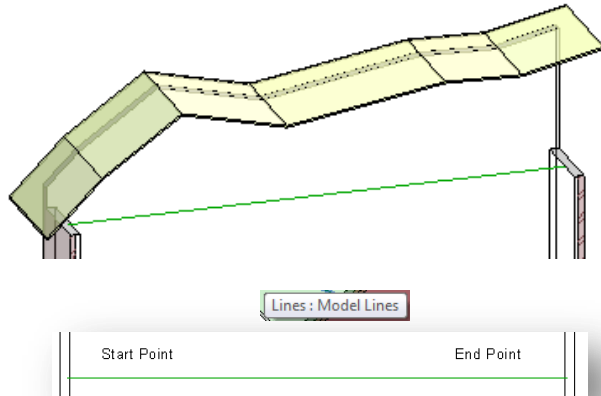
- It is possible to generate other profile of truss if Roof Cutting Level is set to corresponding level.





# Create Truss Type by Model Line

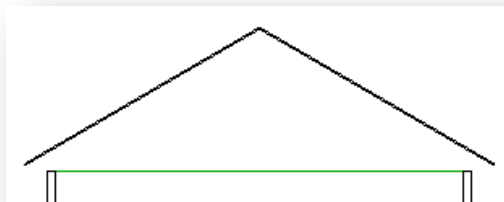
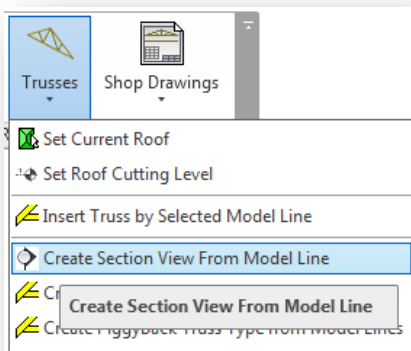
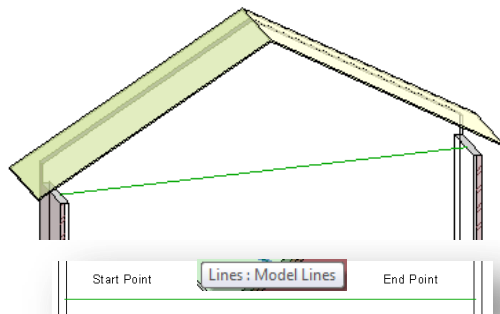
- **Truss Builder** works well in case of multi pitched roofs too.



# Create Truss Type by Model Line

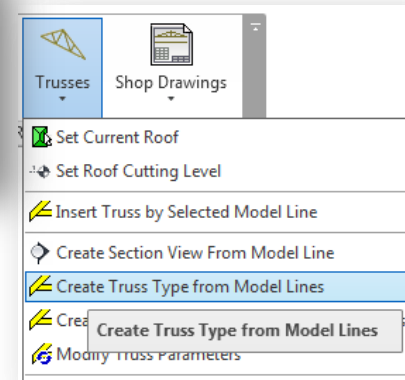
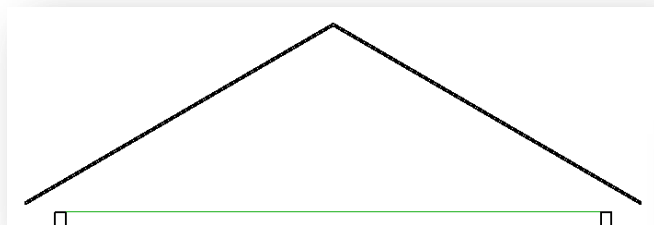
With the **Truss Builder** user can create a new truss with multi pitched bottom chord in the following way:

- 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*.



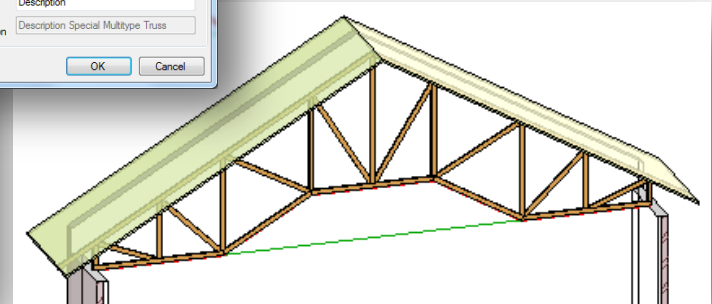
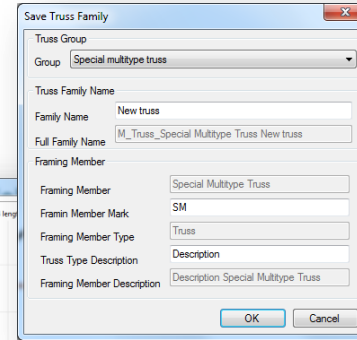
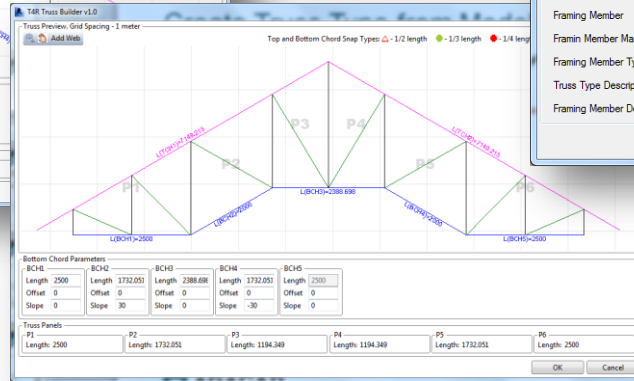
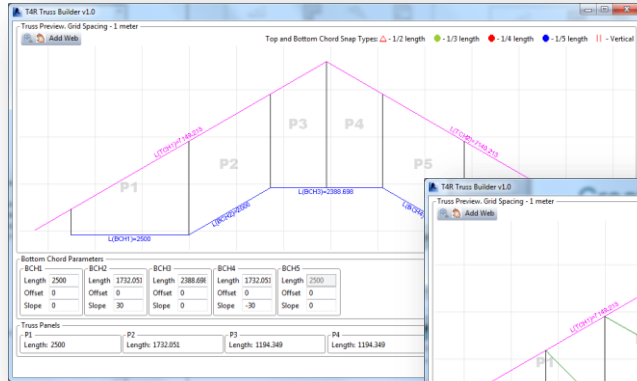
# Create Truss Type by Model Line

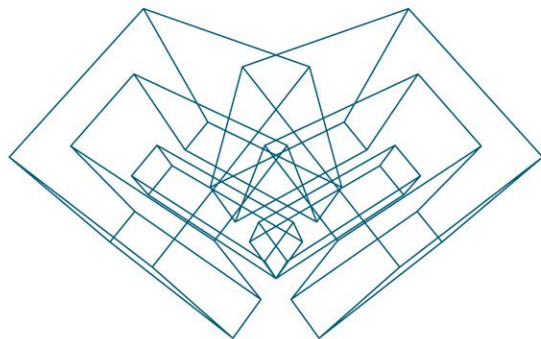
- Use Model line to correctly draw a profile of bottom chord in new created section view.
- Select new Model lines and run the *Create Truss by Model Line* function from “Truss+” menu.



# 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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