



# Truss+ 2010

## Insert Truss by Selected Model Line

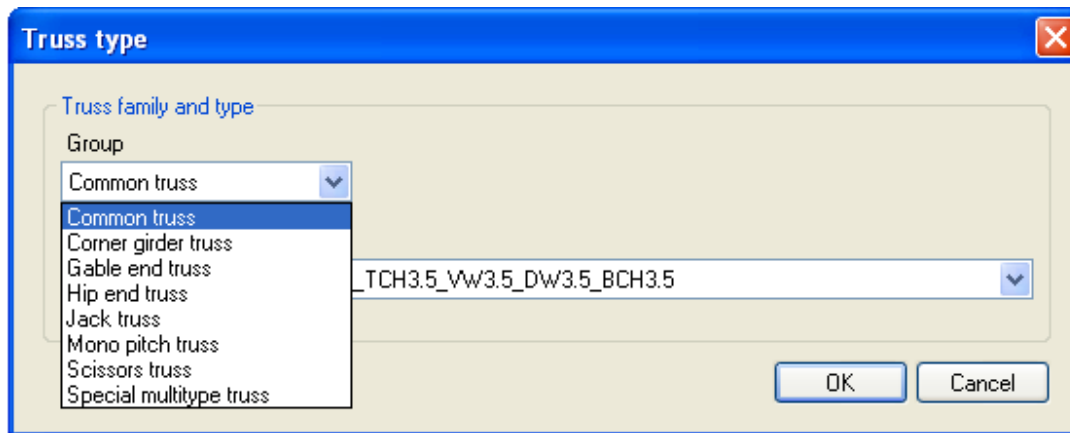
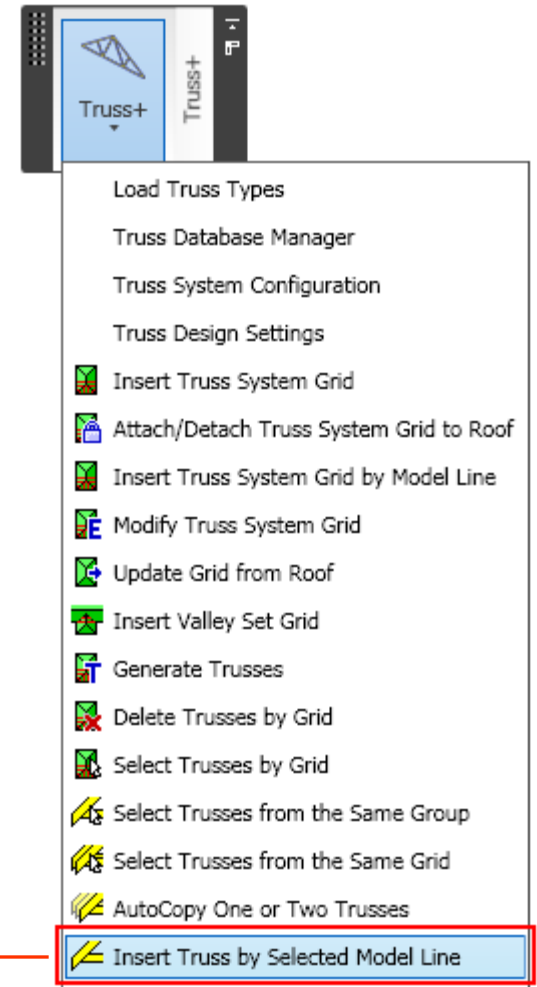
Common trusses



# Insert Truss by Selected Model Line

- Select Model line
- Choose the *Insert Truss by Selected Model line* option from “Truss+” menu.
- Pick *Common truss* in the “Truss type” dialog.

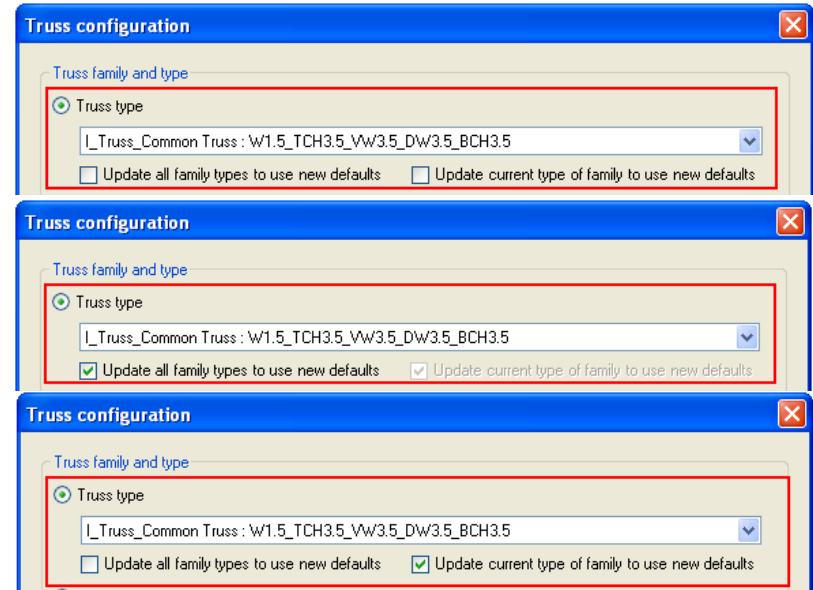
Start point of Model line will be the start point of Truss and End point of Model line - the end point of Truss.



# Insert Truss by Selected Model Line

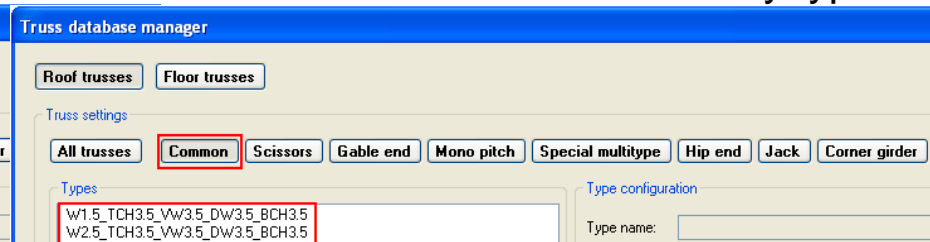
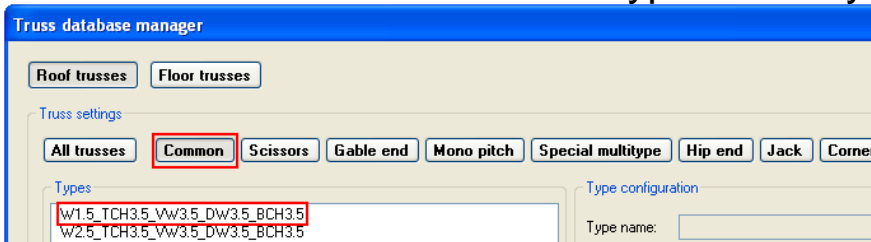
In a coming dialog the user can modify instance parameters of the inserted truss, update default parameters of the current family or create a new one.

- Change instance parameters of a selected truss (default values of instance parameters remain the same).
- Change instance parameters of a selected truss and update **all family types** to use new defaults (all Truss types created by Database manager).
- Change instance parameters of a selected truss and update **current type of family** to use a new default.



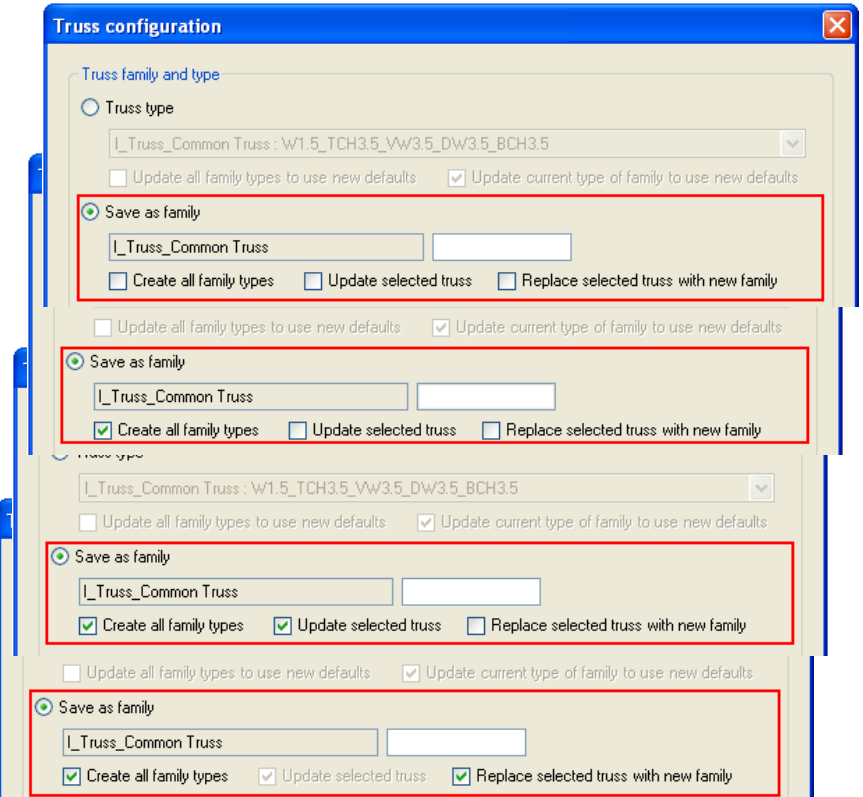
Current type of family

All family types



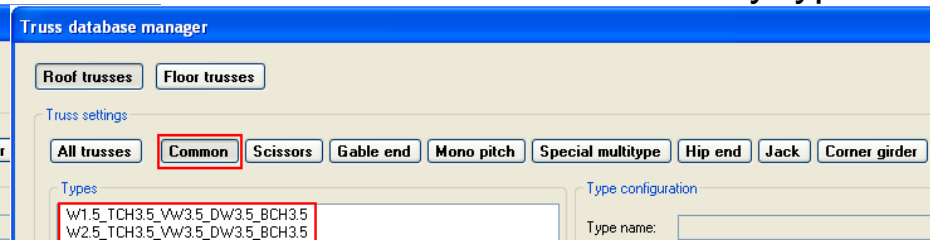
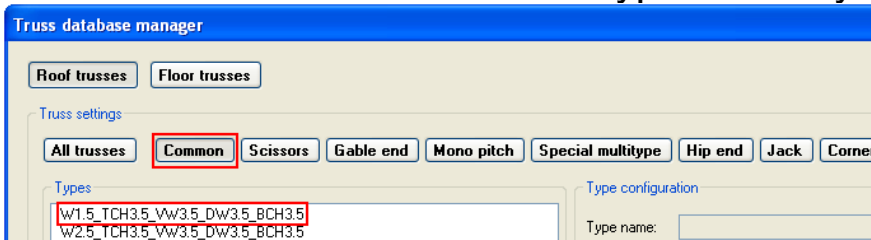
# Insert Truss by Selected Model Line

- Create a new family additionally (one type, as selected one) without updating selected one.
- Create **all Common truss new family types** (all Truss types created by Database manager) without updating selected one.
- Create new **Common truss family types** and update instance parameters of **selected truss**.
- Create new **Common truss family types** and replace **selected truss** with a new family.



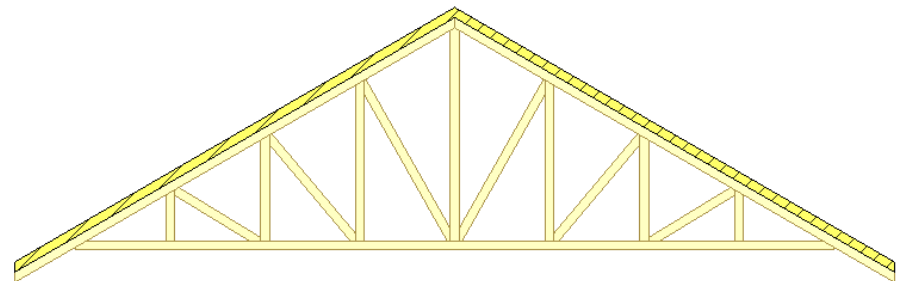
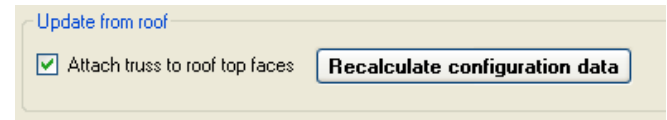
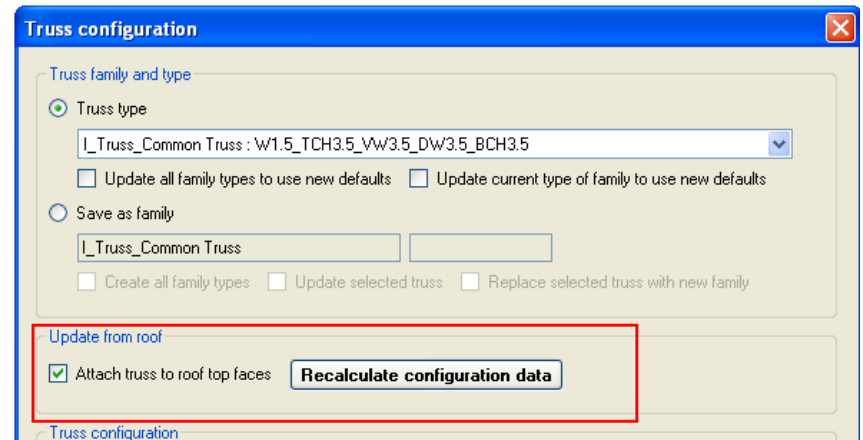
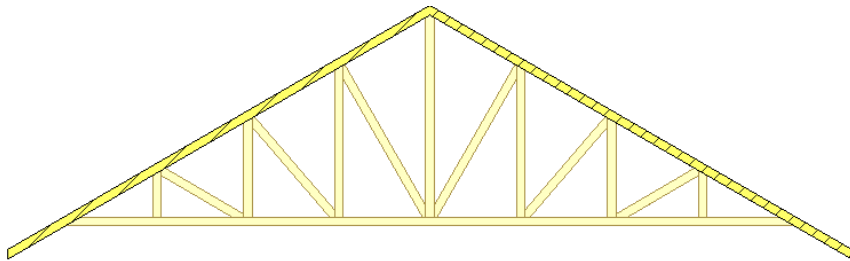
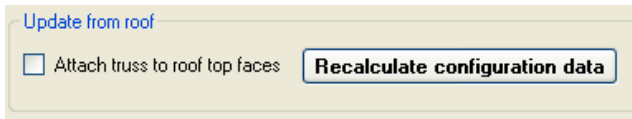
Current type of family

All family types



# Insert Truss by Selected Model Line

- *Recalculate configuration data* function enables you to recalculate truss configuration relative to the roof geometry. Truss can be attached to the roof top faces or not.

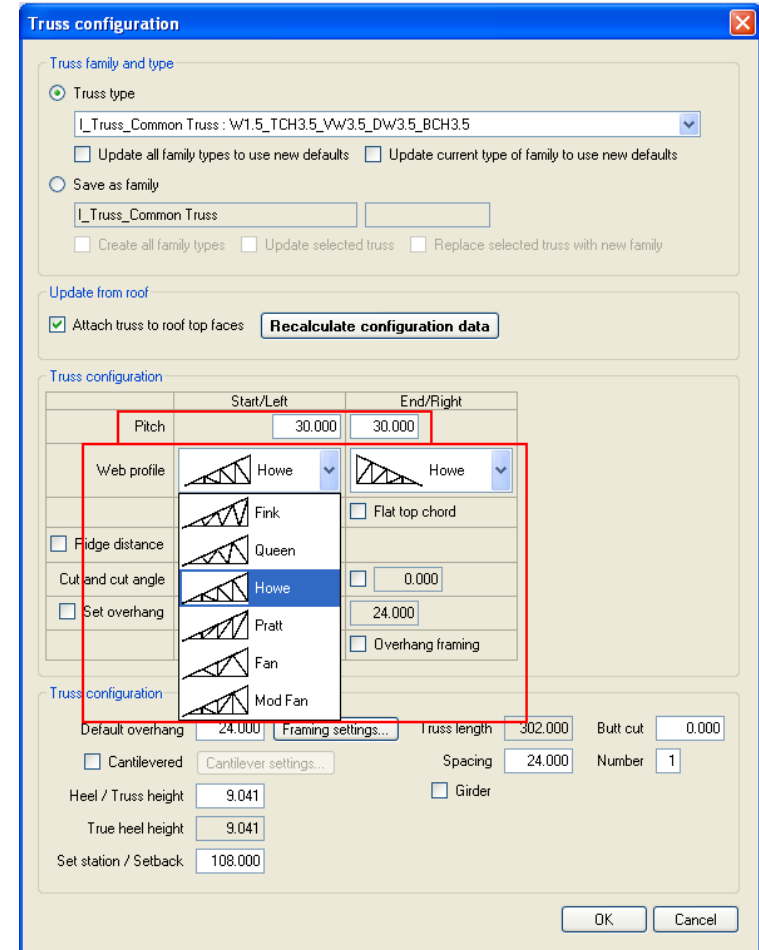
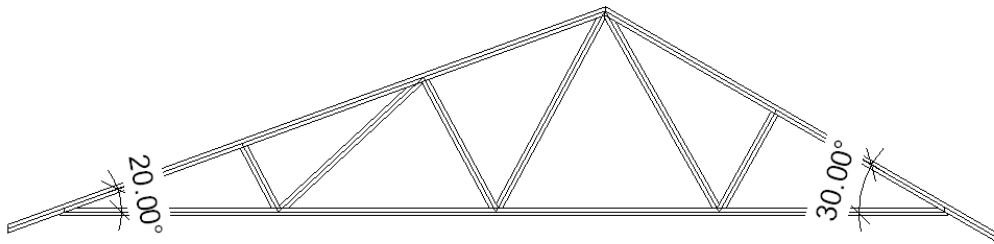


# Insert Truss by Selected Model Line

Define parameters for both sides:

- *Pitch*. If you use the *Recalculate configuration data* function, the truss will get right pitch from the roof;
- *Web profile*.

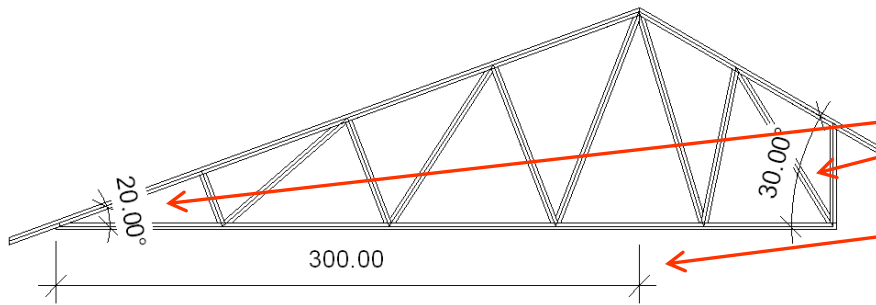
“Truss+” will calculate Side lengths considering the defined slope angle automatically.



# Insert Truss by Selected Model Line

- *Ridge distance.* You can *Pick line* (Model line), showing the distance or switch On the check box and add this values manually.

User can define Ridge distance and Start and End Pitch. In this case “Truss+” will set Heel if it’s needed.



**Truss configuration**

Truss family and type

Truss type:    
 L\_Truss\_Common Truss : W1.5\_TCH3.5\_VW3.5\_DW3.5\_BCH3.5

Update all family types to use new defaults  Update current type of family to use new defaults

Save as family:    
 L\_Truss\_Common Truss

Create all family types  Update selected truss  Replace selected truss with new family

Update from roof

Attach truss to roof top faces **Recalculate configuration data**

Truss configuration

	Start/Left	End/Right
Pitch	20.000	30.000
Web profile	Howe	Howe
<input type="checkbox"/> Flat top chord		<input type="checkbox"/> Flat top chord
<input checked="" type="checkbox"/> Ridge distance	300	Pick line...
Cut and cut angle	<input type="checkbox"/> 0.000	<input type="checkbox"/> 0.000
<input type="checkbox"/> Set overhang	24.000	24.000
<input type="checkbox"/> Overhang framing		<input type="checkbox"/> Overhang framing

Truss configuration

Default overhang: 24.000 **Framing settings...** Truss length: 302.000 Butt cut: 0.000

Cantilevered **Cantilever settings...** Spacing: 24.000 Number: 1

Heel / Truss height: 9.041  Girder

True heel height: 9.041

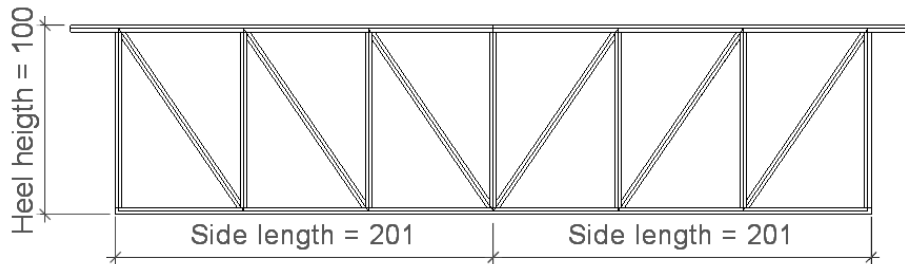
Set station / Setback: 108.000

OK Cancel

# Insert Truss by Selected Model Line

In order to have Truss with Flat top chord, the user has to set :

- *Truss height* ;
- *Start and End Pitch* to zero;
- Switch On *Flat top chord* check boxes.



**Truss configuration**

Truss family and type

Truss type

L\_Truss\_Common Truss : W1.5\_TCH3.5\_VW3.5\_DW3.5\_BCH3.5

Update all family types to use new defaults  Update current type of family to use new defaults

Save as family

L\_Truss\_Common Truss

Create all family types  Update selected truss  Replace selected truss with new family

Update from roof

Attach truss to roof top faces **Recalculate configuration data**

Truss configuration

	Start/Left	End/Right
Pitch	0.000	0.000
Web profile	Howe	Howe
	<input checked="" type="checkbox"/> Flat top chord	<input checked="" type="checkbox"/> Flat top chord
Ridge distance	300.000	Pick line...
Cut and cut angle	<input type="checkbox"/> 0.000	<input type="checkbox"/> 0.000
Set overhang	24.000	24.000
	<input type="checkbox"/> Overhang framing	<input type="checkbox"/> Overhang framing

Truss configuration

Default overhang 24.000 **Framing settings...** Truss length 302.000 Butt cut 0.000

Cantilevered **Cantilever settings...** Spacing 24.000 Number 1

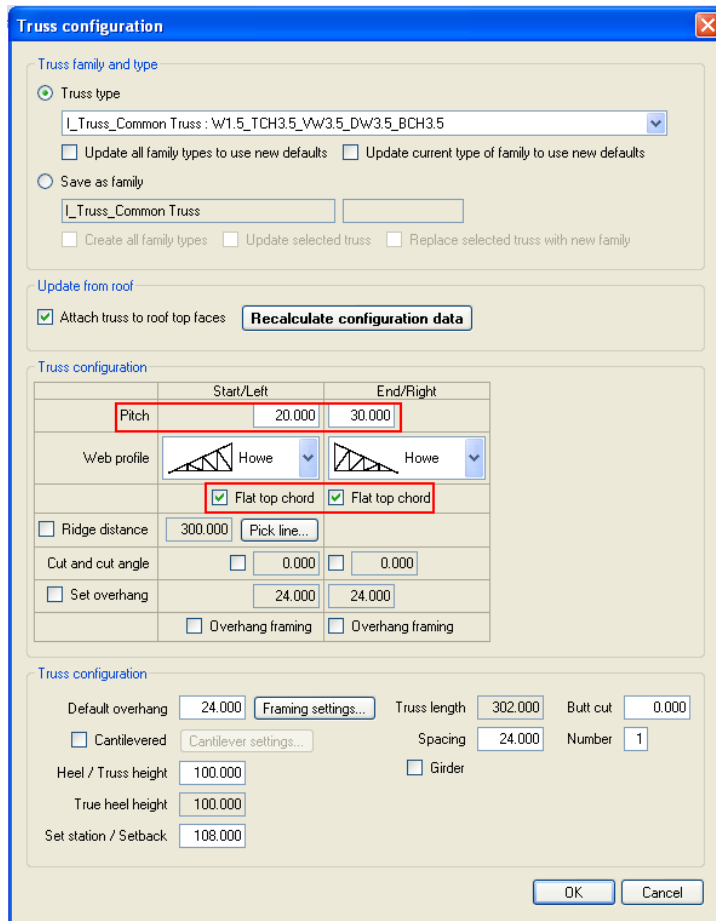
Heel / Truss height 100.000  Girder

True heel height 100.000

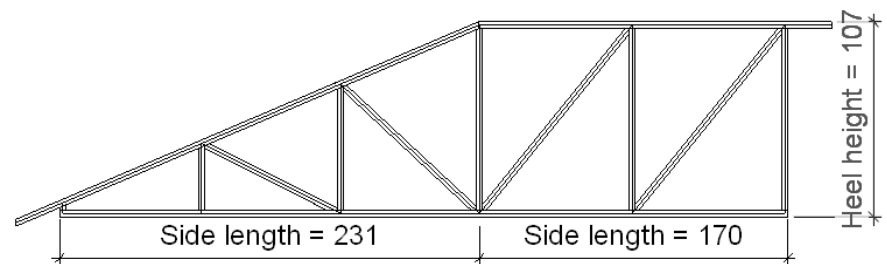
Set station / Setback 108.000

OK Cancel

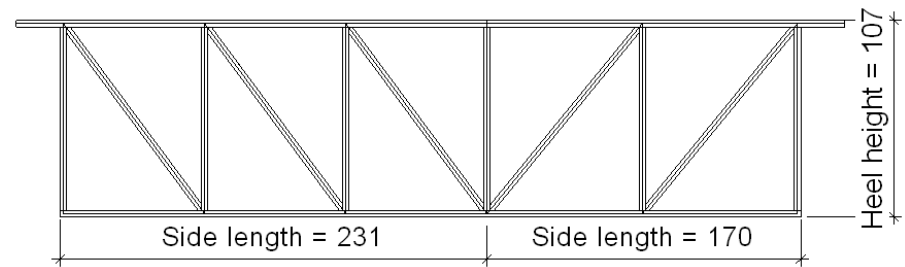
# Insert Truss by Selected Model Line



Very often the height and Side lengths of the truss are determinate of the roof hip end.



If Pitch should be set but a top chord is flat, “Truss+” will calculate Side lengths and Heel heights automatically.

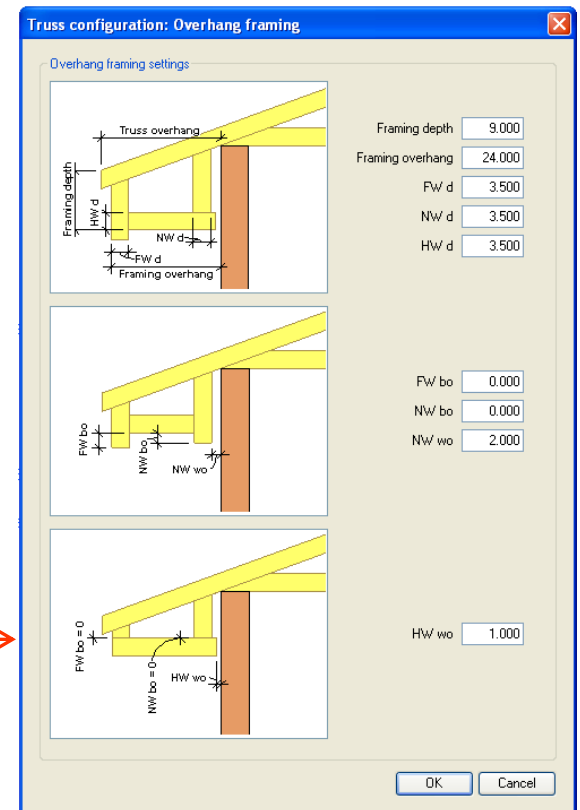
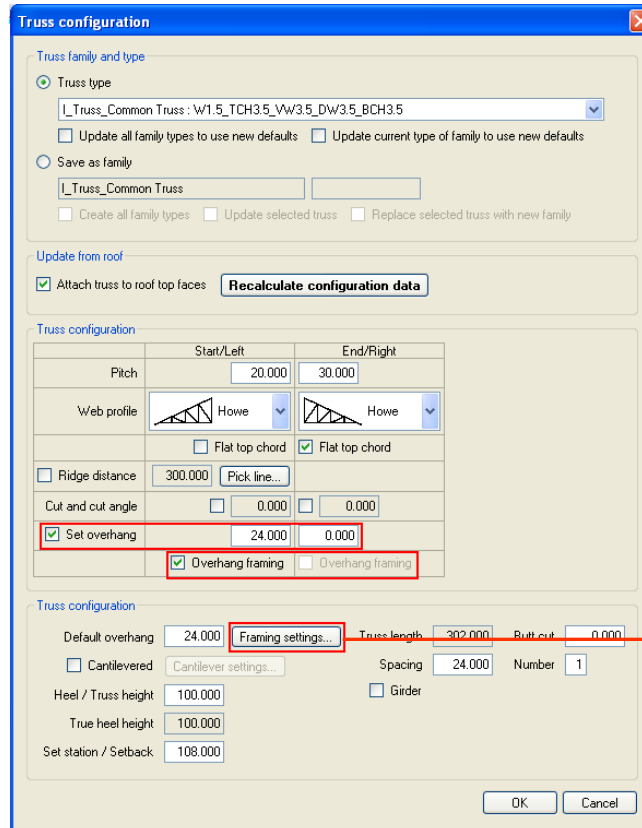
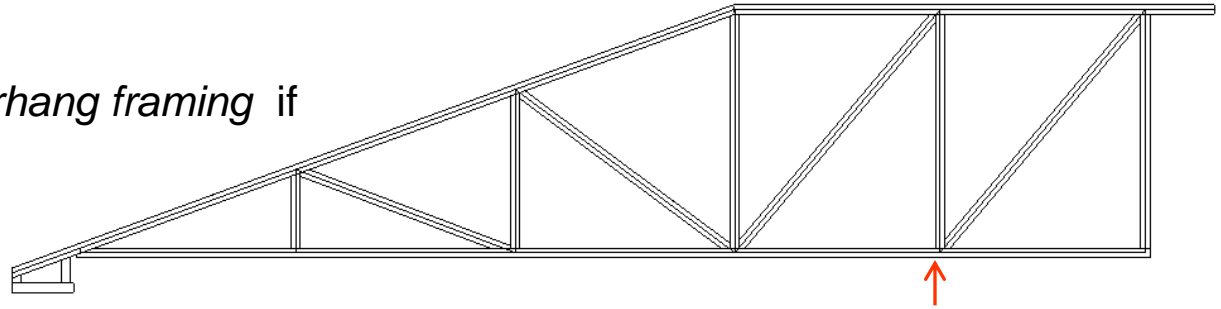


# Insert Truss by Selected Model Line

- Switch On the option *Overhang framing* if it's needed.

- Define *Overhang framing settings*.

User can define different values of overhang lengths on Start and End points of the truss.



# Insert Truss by Selected Model Line

**Truss configuration**

Truss family and type

Truss type

I\_Truss\_Common Truss : W1.5\_TCH3.5\_VW3.5\_DW3.5\_BCH3.5

Update all family types to use new defaults  Update current type of family to use new defaults

Save as family

I\_Truss\_Common Truss

Create all family types  Update selected truss  Replace selected truss with new family

Update from roof

Attach truss to roof top faces **Recalculate configuration data**

Truss configuration

	Start/Left	End/Right
Pitch	20.000	30.000
Web profile	Howe	Howe
	<input type="checkbox"/> Flat top chord	<input checked="" type="checkbox"/> Flat top chord
Ridge distance	300.000	<b>Pick line...</b>
Cut and cut angle	<input type="checkbox"/> 0.000	<input checked="" type="checkbox"/> 45.000
<input checked="" type="checkbox"/> Set overhang	0.000	0.000
	<input type="checkbox"/> Overhang framing	<input type="checkbox"/> Overhang framing

Truss configuration

Default overhang 24.000 **Framing settings...** Truss length 302.000 **Butt cut 1.000**

Cantilevered **Cantilever settings...** Spacing 24.000 Number 1

Heel / Truss height 0.000  Girder

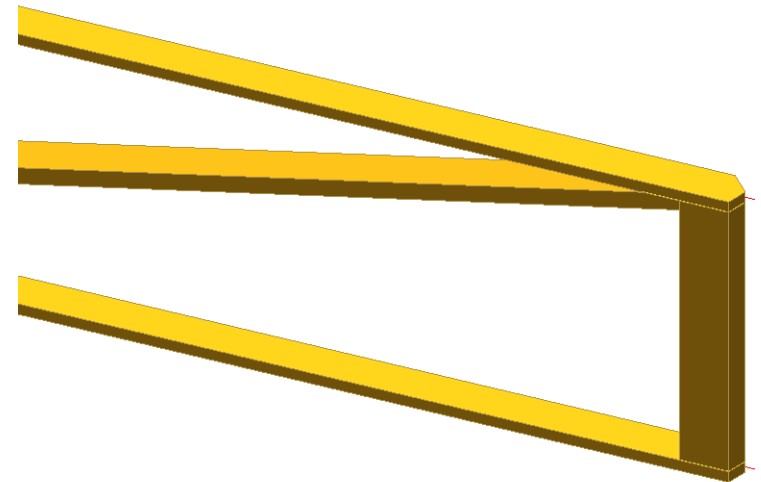
True heel height 4.725

Set station / Setback 108.000

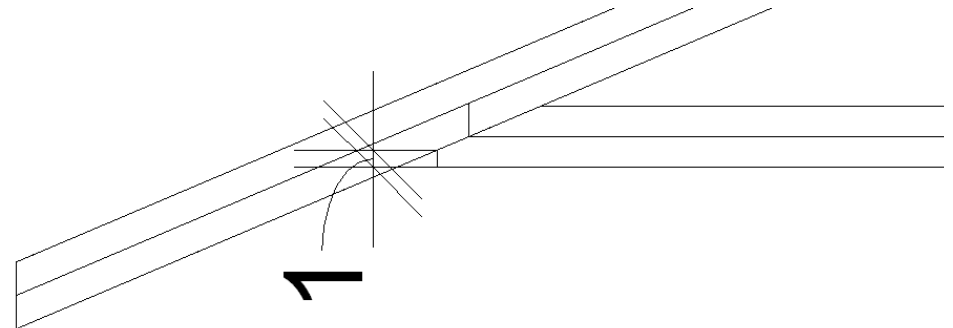
**OK** **Cancel**

If it's needed:

- Define *Cut and cut angle*

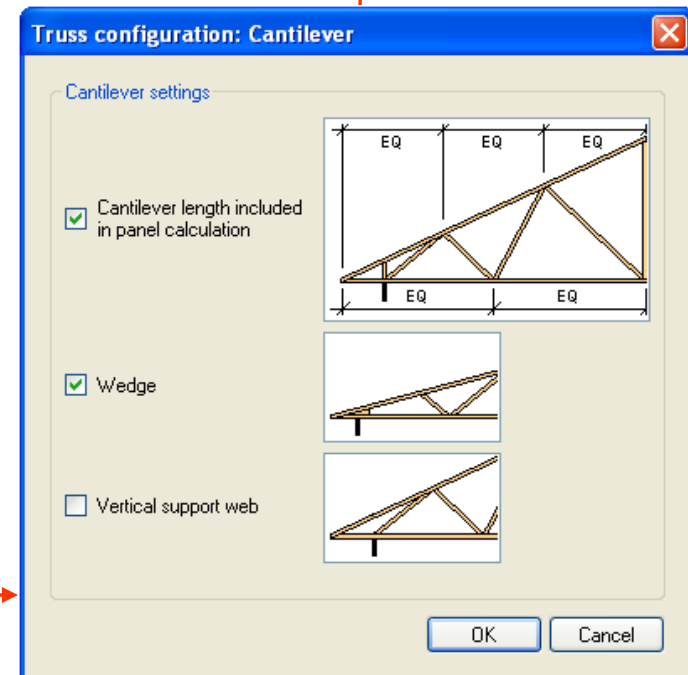
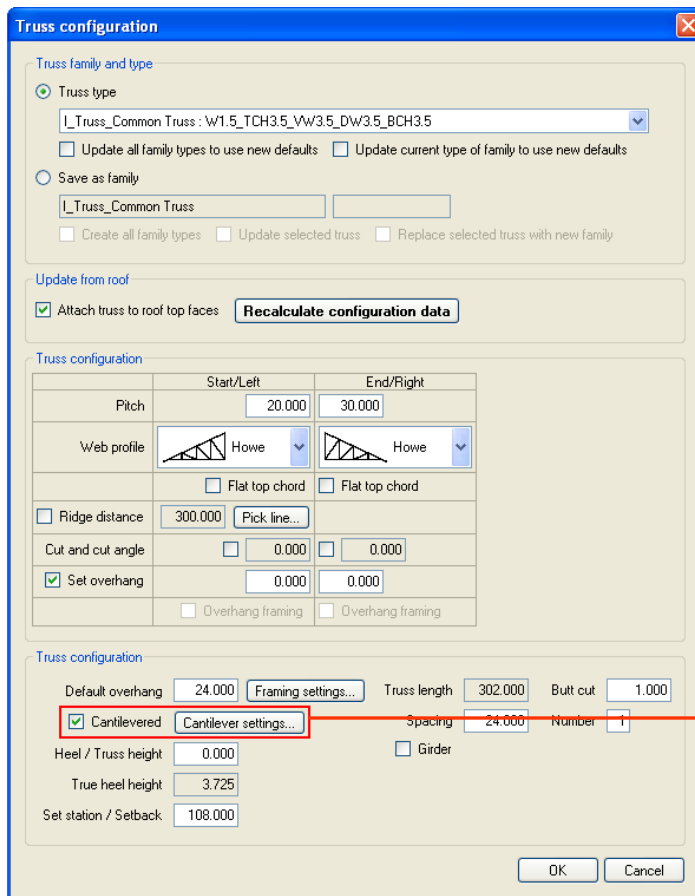
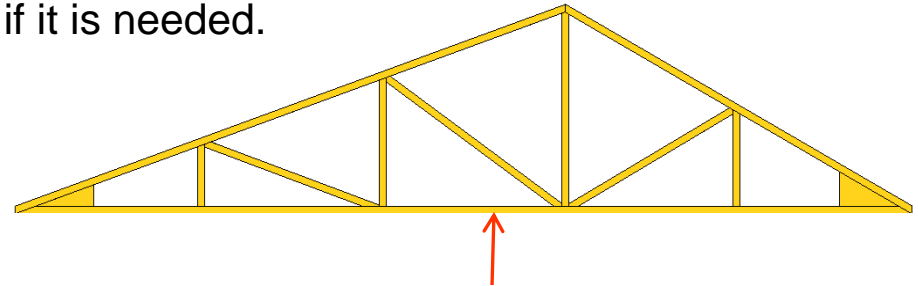


- Define the *Butt cut* value



# Insert Truss by Selected Model Line

- Switch On the *Cantilevered* check box if it is needed.
- Define *Cantilever settings*.



# Insert Truss by Selected Model Line

- User can switch On the *Girder* check box. This option is useful for sorting and scheduling.
- *Spacing*, *Set station/Setback* and *Number* options will be described in next chapters.

**Truss configuration**

Truss family and type

Truss type

L\_Truss\_Common Truss : W1.5\_TCH3.5\_Vw3.5\_DW3.5\_BCH3.5

Update all family types to use new defaults  Update current type of family to use new defaults

Save as family

L\_Truss\_Common Truss

Create all family types  Update selected truss  Replace selected truss with new family

Update from roof

Attach truss to roof top faces **Recalculate configuration data**

Truss configuration

	Start/Left	End/Right
Pitch	20.000	30.000
Web profile	Howe	Howe
	<input type="checkbox"/> Flat top chord	<input type="checkbox"/> Flat top chord
<input type="checkbox"/> Ridge distance	300.000 <b>Pick line...</b>	
Cut and cut angle	<input type="checkbox"/> 0.000	<input type="checkbox"/> 0.000
<input checked="" type="checkbox"/> Set overhang	0.000	0.000
	<input type="checkbox"/> Overhang framing	<input type="checkbox"/> Overhang framing

Truss configuration

Default overhang 24.000 **Framing settings...** Truss length 302.000 Butt cut 1.000

Cantilevered **Cantilever settings...** **Spacing** 24.000 **Number** 1

Heel / Truss height 0.000  **Girder**

True heel height 3.725

**Set station / Setback** 108.000

OK Cancel

# Increase your productivity !



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