



Hydraulic Revit Family Readme

Conventional Hydraulic Elevator

Thank you for downloading ThyssenKrupp Elevator's Conventional Hydraulic Revit Family. This document provides instructions on how to utilize this family. The elevator family that you have downloaded is a fully adaptable family. By modifying the instance parameters for this family, you will be able to adapt this model for use in your project.

This elevator family is to be used for the early design stages of your building. Its sole purpose is to give you basic, general requirements for our system based on the limited information obtained in the family parameters. This model is not meant to be used for construction purposes. The limitations noted below are specific to this Revit model only. Please contact your local ThyssenKrupp Elevator sales representative for additional information.

Model Features

Max. Travel:	59'-0"
Speed:	80-200 fpm
Min. Overhead:	12'-0" up to 100 fpm / 12'-3" over 100 fpm*
Min. Pit:	4'-0"
Cab Height:	7'-11" – 10'-0"

*If the parameter "SharedHoistway" is selected an additional 5" is required in the overhead

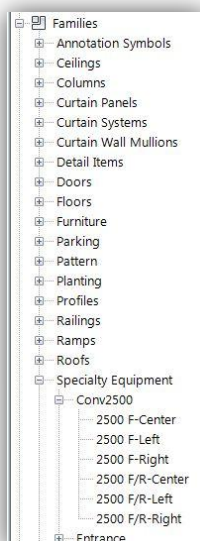


Figure 1

The elevator family has been classified under specialty equipment. Expand "Specialty Equipment" within the project browser to locate the elevator family (see Figure 1).

Our elevator family was created using a wall based template. You must place this family onto a wall similar to a door or window family.

After placing the family on a wall you will notice the model has several symbolic lines (see Figure 2). These lines represent required clearances for our equipment and guides for placing our entrance family.

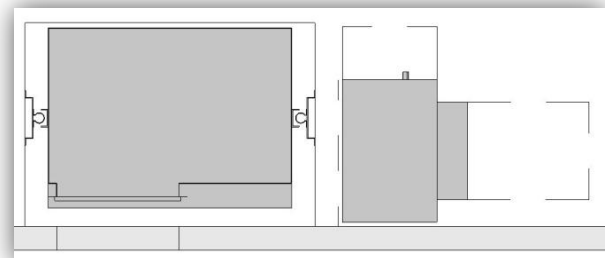


Figure 2

The solid lines around the elevator represent where to place the hoistway walls. Use these lines as a guide for placing the walls (see Figure 3). The dashed lines around the power unit indicate required code clearances for the machine. You may design this room as needed as long as these required clearances are not encroached upon (see Figure 4).

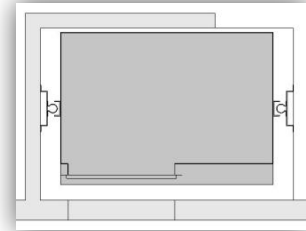


Figure 3

Please remember that only elevator equipment may be placed within the elevator machine room and that it cannot be used as a passageway into another room. ThyssenKrupp Elevator only provides the power unit, oil lines, and controller. All other equipment (disconnects, oil coolers, etc.) are to be provided by others. Please reference your local NEC code for the proper size of the disconnects that will need to be supplied for your project.

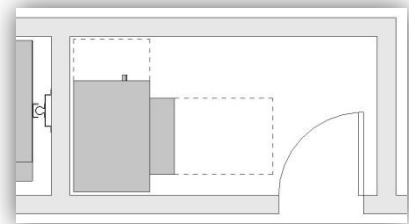


Figure 4

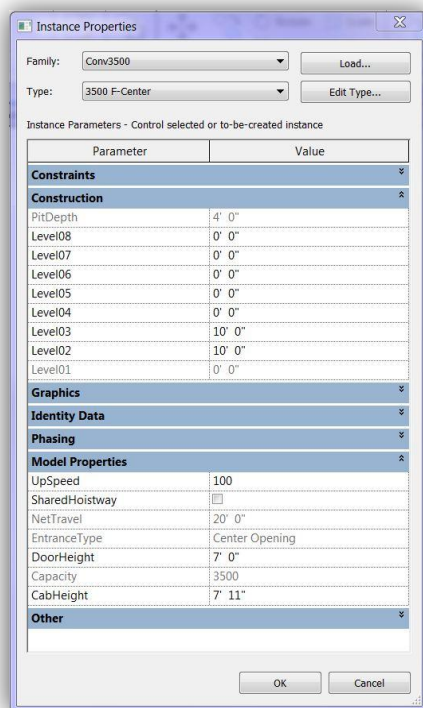


Figure 5

The properties are limited to floor-to-floor heights, speed, door height, cab height, shared hoistway, and when available, the option to choose between 48" or 54" door widths.

- Floor Heights – The maximum number of landings supported for this model is 8 landings.
 - Floor heights are limited to no less than 8'-6" unless a front/rear application is utilized.
- Speed – The speed parameter is an integer field and helps to size the power unit for this elevator. The elevator capacity, speed, and travel all affect the power unit type. *There are a great number of variables that must be taken into consideration to give you the exact power unit for your system. The variables within this family have been generalized and help establish an approximate power unit for your elevator system.*
- Door Height – The door height is adjustable and will not allow for a combination of door/cab height values that are not supported by ThyssenKrupp Elevator.
- Cab Height – The cab height field for this model is limited to 7'-11" through 10'-0".

- Shared Hoistway – The “SharedHoistway” parameter will make all necessary clearance adjustments to the elevator model if more than one elevator is to share a single hoistway. By default this parameter is deselected. *Manipulation of the elevator family to adjust the location of the power units will be necessary. The power unit for each family is designed for an adjacent machine room only.*
- 48”/54” Door – For the 4500, 5000, and 5000H capacity cars the default door width is 48”. These capacities have an optional 54” wide door which is selected by checking the “54inDoor” parameter.

If a change to the door hand or a front/rear modification is required, select the elevator model within the project and select a different elevator type from the pull down (see Figure 6).

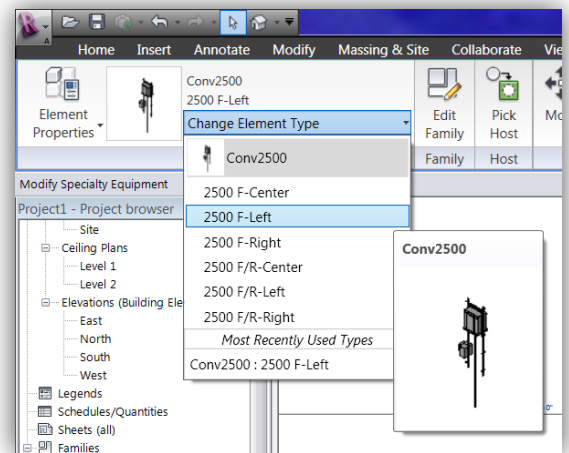


Figure 6

Our clear overhead and pit requirements are illustrated in any section/elevation view.

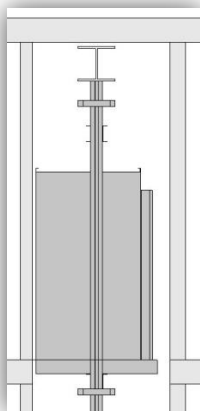


Figure 7

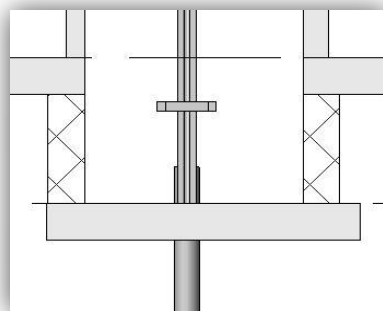
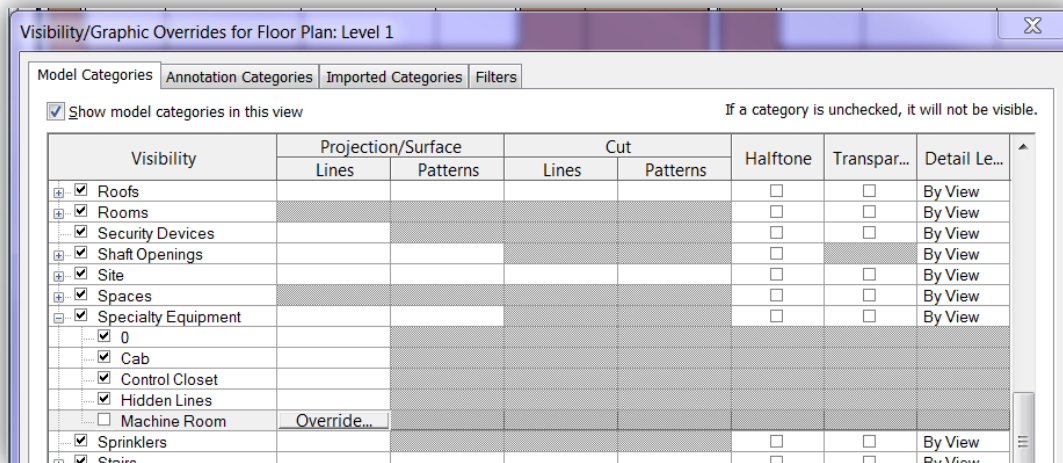


Figure 8

Visibility

This family takes advantage of the Visibility/Graphic Overrides feature within Revit. If the machine room is not required to be illustrated in a certain view, simply navigate to the Specialty Equipment section within the Visibility/Graphic Overrides dialog box and deselect the Machine Room subcategory.



Entrances

Within the downloaded folder, an entrance door family has also been provided. This family is also categorized as “Specialty Equipment”, and can be found in the model tree along with the elevator family once it is imported. Within the Model Properties of the elevator family there is an “Entrance Type” parameter with a text value. Use this value in selecting the appropriate entrance type for your elevator (see Figures 9 and 10).

The entrance family has also been created utilizing a wall based template and must be placed onto a wall. Once placed, align the entrance jambs with the symbolic lines within the elevator family (see Figure 11). Repeat the entrance alignment process for every landing entrance.

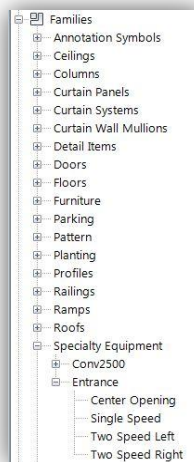


Figure 9

Model Properties	
UpSpeed	150
SharedHoistway	<input type="checkbox"/>
NetTravel	24' 0"
EntranceType	Single Speed
DoorWidth	3' 6"
DoorHeight	7' 0"
Capacity	2500
CabHeight	7' 11"
54inDoor	<input type="checkbox"/>

Figure 10- Elevator Model Properties

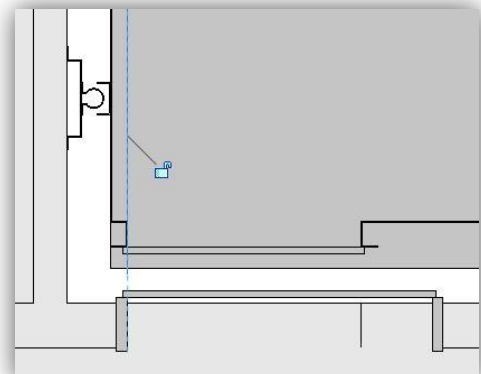


Figure 11



We would once again like to thank you for downloading our Revit families for use within your project. We hope you continue to use ThyssenKrupp Elevator content for all of your vertical transportation design needs. Please visit our site before starting a new project to ensure you have the most up-to-date elevator model as we will continually make enhancements to our content.

ALL TERMS AND CONDITIONS LISTED ON THE THYSSENKRUPPELEVATOR.COM WEBSITE ARE INCORPORATED HEREIN BY REFERENCE. ADDITIONALLY, ALL INFORMATION IN THIS DOCUMENT (INCLUDING, BUT NOT LIMITED TO DEPICTIONS, DRAWINGS, MODELS, FIGURES, DIMENSIONS, MEASUREMENTS, ETC.) ARE THE SOLE AND EXCLUSIVE PROPERTY OF THYSSENKRUPP ELEVATOR CORPORATION, ARE PROVIDED FOR ILLUSTRATION PURPOSES ONLY, ARE NOT TO BE RELIED UPON WITHOUT INDEPENDENT VERIFICATION BY AUTHORIZED THYSSENKRUPP ELEVATOR CORPORATION PERSONNEL AND ABSOLUTELY NO MODIFICATION IS ALLOWED BY ANY PARTY OTHER THAN THYSSENKRUPP ELEVATOR CORPORATION. FURTHERMORE, THYSSENKRUPP ELEVATOR CORPORATION WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES (INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOSS OF PROFITS, DELAY, BUSINESS INTERRUPTION, ETC.) ARISING OUT OF USE OF THIS DOCUMENT, THE INABILITY TO USE THIS DOCUMENT OR ANY TRANSACTIONS RELATED TO THE USE OF THIS DOCUMENT. IN STATES THAT DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, USE OF THIS DOCUMENT IS STRICTLY PROHIBITED.