

PROFIS INSTALLATION INSTRUCTION MANUAL



### Contents

Chapter	1: Getting started	Page 3
Section 1.1	Creating a project	
Section 1.2	Hilti button	
Chapter	2: Template design	Page 6
Section 2.1	Manage pipe layer window	
Section 2.2	Projects	
Section 2.3	Basis tab	
Section 2.4	Design tab	
Section 2.5	Calculation tab	
Section 2.6	View tab	
	CAD model viewer	
	Reports options window	
<b>Chapter</b>	3: 3D Design	Page 18
Section 3.1	Dimensions	
Section 3.2	Beams	
Section 3.3	Pipes, airducts, and cable trays	
Section 3.4	Pipe properties window	
Section 3.5	Airduct properties window	
Section 3.6	Cable tray properties	
Section 3.7	Loads	
Section 3.8	Load properties window	
<b>Chapter</b>	4: Channel	Page 27

### Chapter 5: BIM/CAD Export

#### Legal Disclaimer

Typical details shown are examples only and not for construction, contact Hilti for detailed design to meet project specific requirements. All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

Page 30

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Chapter 1

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## **GETTING STARTED**

Section 1.1Creating a projectPage 4Section 1.2Hilti buttonPage 5

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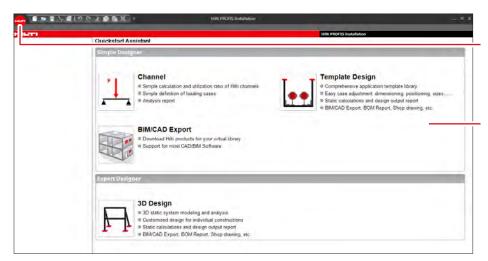
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### **Creating a project**

To create a new project, select one of the following:



Click the "Hilti" button to create a new project or assembly, open an existing project, or change settings (Language, Units, Portfolio, etc.) (see page 5).

-or-

Select an assembly designer option from the "Quickstart Assistant" to create a new project.



#### Hilti button

New		Add New Project	Ctrl+Shift+N
<u>O</u> pen	•	Add New Subproject	Ctrl+N
Save Ctrl+S		Project from clipboard	
Save <u>A</u> s	•	Channel	
<u>Print</u>	•	3D Design	
Manage	•	Template Design	
Import	•	BIM/CAD Export	
<u>C</u> lose Project	_	Partlist	

#### Menu

op to bottom:

- **New:** Create a new project, sub project, assembly, or parts list
- **Open:** Open an existing project, a favorite project, or a recent project
- Save: Save the current project in its previous location
- Save As: Save a project in a new location or save one as a favorite
- Print: Open the "Print preview" and print the selection
- **Manage:** Manage customers in the customers list or manage the favorites list
- Import: Import files for list prices or translations
  - Close project: Close the current project

#### Options

**Settings:** Select language, enable/disable auto save, set auto save interval, etc.

**Units:** Selects units to use for length, weight, load, torque, and stress as well as the number of decimal places to use for each

**Parts list:** Select which fields to sum on the parts list, sales price factor, etc.

**Parts list layout:** Select which fields to display/export on parts lists and the order they should appear in

**Catalogue:** Select the currency and catalog portfolio to use

**Resources:** Check for updates, view version information, activate other PROFIS software keys, etc.

**Calculation:** Set proxy settings (if required) for accessing the cloud calculations

**Channel 3D:** Select to enable/disable hardware acceleration, show/hide fixed positions, and show/hide the base material in CAD models

Chapter 2

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# TEMPLATE DESIGN

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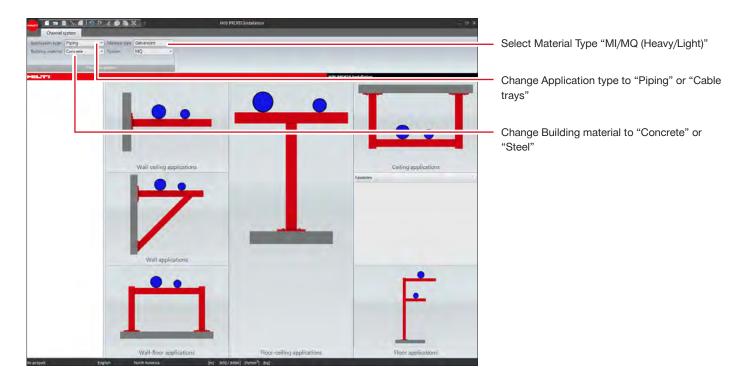
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Section 2.1	Manage pipe layer window	Page 8
Section 2.2	Projects	Page 10
Section 2.3	Basis tab	Page 11
Section 2.4	Design tab	Page 12
Section 2.5	Calculation tab	Page 14
Section 2.6	Reports options window	Page 15
Section 2.7	View tab	Page 16
Section 2.8	CAD model viewer	Page 17

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### **Template design**

Use one of the following standard template designs



#### To open a template design

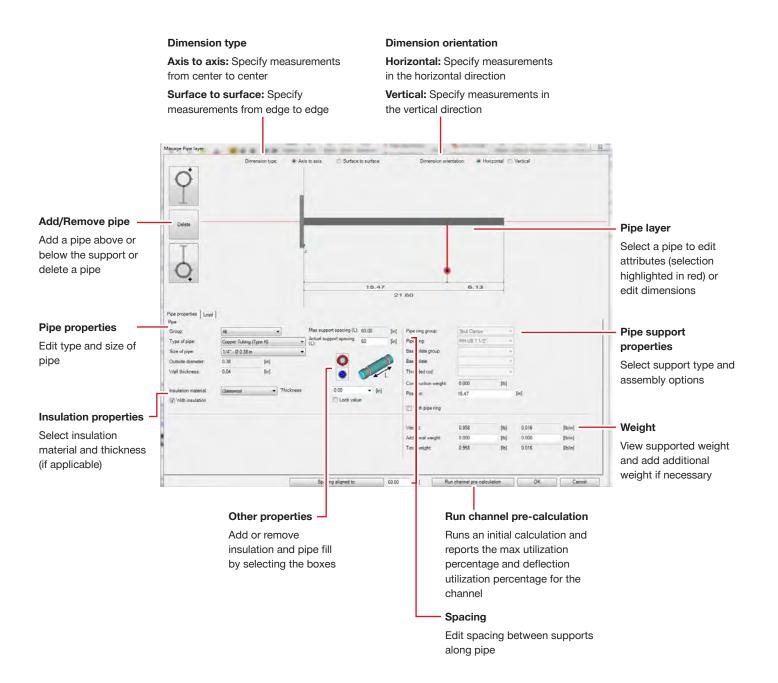
uliding material   Concrete	Marena: fige: Galvanized     Symmer     Mig      Go     Go     Spece     Sec     Sec	Nih PRO13 Induktion
		N         provement         0           Pois         biese         Description           1         407543         Strut H5-L120 pV G           2         59653         Beach 150/C2 0.050           3         580549         Beac connector 45 deg /s
	ンン	5 349923 Push texton MCP4 6 387512 Exa and/or K5-72 1/2* 41
	edit(2):	
		1 An Anna I An

 Click an application type, then select a template to load

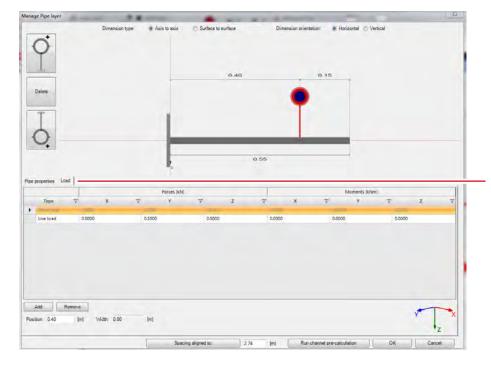
The template will open in the "Manage Pipe Layers" window (page 8)

### Manage Pipe Layer window

Manage Pipe Layer window allows user to manage pipe properties and insulation properties







#### Loads

Click on "Loads" tab to add/modify/remove loads in addition to dead loads

### Projects

How to navigate through a project to set project properties. Double click on the Project 1 (Project name) in project tree pane.

#### Calculations

Sum: Provides sum of lengths

Round to sales quantity: Total length of MI girders to purchase

Renewal of aggregation: Refreshes the parts list with changes made in the assemblies

#### Extras

Refresh prices from catalog: Prices from HOL Refresh all prices in project: Price based on BOM Excel export: Exports the parts list to an Excel file AutoCAD export: Exports the parts list to an AutoCAD object

#### Modification

Add a new line to the parts list

Note: To delete a line, click on the line in the table to highlight it and press the "Delete" key.

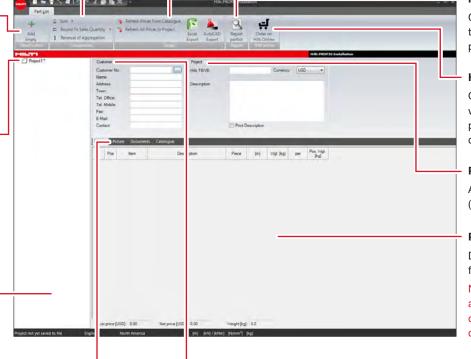
#### Project

Select to open the
project information and
parts list for all
assemblies in the
project.

#### Assembly

Select to edit the assembly

When a project or \_\_\_\_\_\_ assembly is selected, right click for additional options (New, Copy, Rename, Delete, etc.)



#### Picture

Insert pictures associated with the project.

Note: Selecting the "Print" option will include the images on reports.

#### Documents

Attach documents associated with the project.

#### Catalogue

Item description and number.

#### Report

Creates a PDF file with the parts list and cut plan for beams

#### Hilti Online

Opens Hilti Online in a web browser with parts placed in the shopping cart

#### Project

Add Project Description (Name, Number, etc)

#### Parts list

Displays parts required for the project

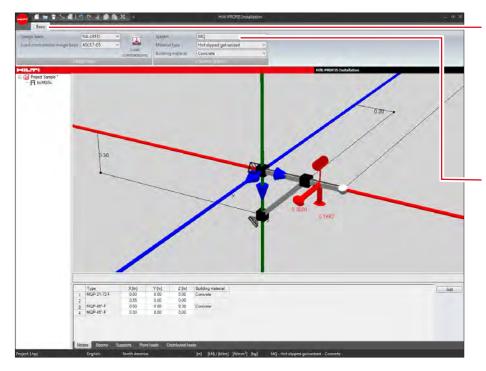
Note: Right click for additional options (add column, remove column, sort, etc.).

#### Customer

Information appears on reports generated for the project. Use the button to insert customer information from the customer list

### **Basis tab**

Expand project 1 and then double click on bcMQ5c to get to the Basis tab or project design screen



#### **Design Basis**

**Design basis:** Select the basis of design for calculations

Load combination design basis: Select the load combination basis of design to use for calculations

**Load combinations:** View the load combination selected in tabular format

#### **Channel System**

**System:** Select channel systems to include in calculations

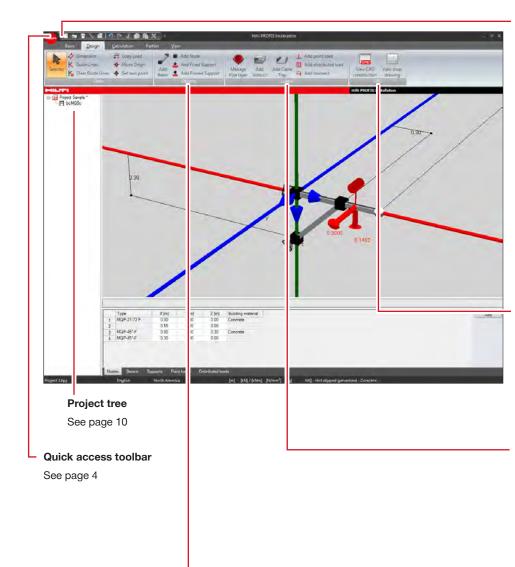
**Material type:** Select channel material or finish to include in calculations

**Building material:** Select base material supports will connect to

Note: Not all material types are available for each channel system.

### **Design tab**

Design tab enables user to change dimensions, add/modify objects, view construction.



#### Tools

**Selector:** Use to select and edit features in the model

Dimension: See page 19

**Guide lines:** Adds 3D coordinate lines to a node. Beams can be attached to these guide lines

**Clear guide lines:** Removes all guide lines in the model

**Copy load:** With a load selected, this will duplicate the load and place it next to the current one

**Move origin:** When selected, click and hold in the model view to pan the origin

**Set zero point:** Select a node to move the zero point of the main axes

#### CAD

View CAD construction: Opens the "CAD Model Viewer" (see page 18)

View shop drawing: Creates a shop drawing with CAD models and a parts list of the assembly. Includes the option to insert and maintain a revision block

#### Loads

Add pipe: See page 21 Add custom load: See page 25 Add airduct: See page 21 Add cable tray: See page 21

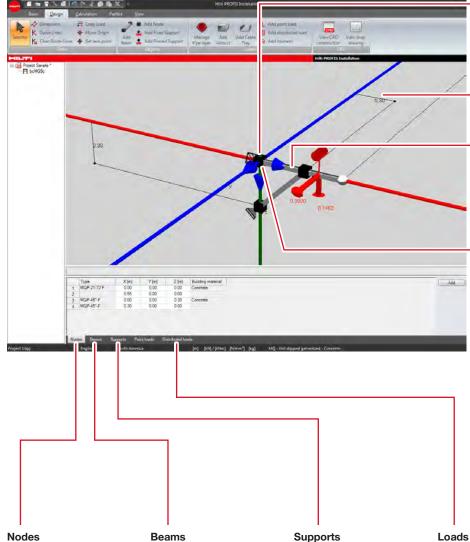
#### Objects

Add beam: See page 20

Add node: Click on an existing beam to add a node

Add fixed support: Click on an existing node to add a fixed support (resists forces and moments)

Add pinned support: Click on an existing node to add a pinned support (resists forces only)



Nodes: To edit nodes, double click to open the "Node Properties" window. This displays the node geometry and loads (after a calculation is run) and allows for selection of connection type

Dimensions: To edit dimensions, see page 19

Beams: To edit beams, double click to open the "Beam Properties" window. This displays the beam stresses and loads (after a calculation is run) and section data and allows for selection of channel type and rotation

Supports: To edit supports, double click to open the "Support Properties" window. This displays the support geometry and loads (after a calculation is run) and allows for selection of base material connector and fixation method

#### Nodes

Displays the type and location of each node in the assembly. The location attributes can be edited

#### Beams

Displays the type, start and end point locations, length, and weight of beams in the assembly. The start and end point locations can be edited

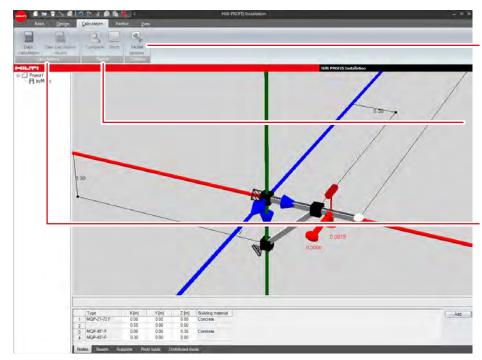
#### Supports

Displays the type and location of supports in the assembly

Displays the type, description, position, width, load type, forces, and moments of loads in the assembly. The position attributes can be edited

Note: When a custom load is inserted, the position, width, load type, forces, and moments can be edited

### **Calculation tab**



#### Options

**Model Options:** Adjust defaults for maximum beam displacement, maximum cantilever allowable deflection, and minimum deflection limit

#### Report

Complete: Complete report

**Short:** Creates a shop drawing of the assembly

#### Calculation

**Static calculate:** Creates a calculation (using the "Model Options" selected) and makes the Report tab available

**Clear calculation results:** Removes current calculation to allow for changes and recalculation

#### Short

roject: cMQ2s								
Description:								
Revisions								
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Print reports								
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#### Short

Check when pipes are present and uncheck when pipes are absent

### **Reports options window**

Click on "Complete" to get report options

Dimensions Axis to axis Images Surface to surface images Calculation summary Member design checks Displacement Support load	_
Surface to surface images Calculation summary Member design checks Displacement Support load	_
Calculation summary Calculation summary Calculation summary Displacement Support load	
Member design checks      Displacement      Support load	
Displacement	
Support load	
Section load	
used checks for members acc. AISI S100-2010	
Use report path     Use custom path	
Report location: C:\Users sharcha\Documents\Hilti Project\Hilti PI Browse	
Report name: Report	
Save settings OK C	ancel

#### Print Reports

Top to bottom:

**Calculation summary:** Includes calculations for deflection and combined loading on beams as well as forces and moments at connections and supports in the report

**Member design checks:** Includes compression, tension, shear, torsion, flexure, and combined loading calculations for beams in the report

**Displacement:** Includes displacement calculations for beams in the report

Support load: Includes reaction forces and moments at the connection to the structure in the report

Section load: Includes calculations for forces and moments along the beam lengths in the report

Section load images: Includes images reflecting the normal and shear loads, moments, and torsion along the beam lengths in the report

**Used check for members acc. AIS S100-2010:** Provides formulas used to perform AISI code check on members

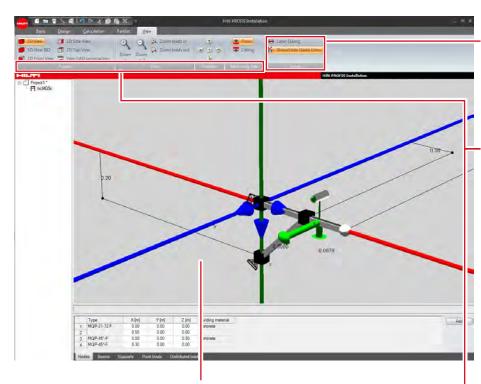
#### Save report

Save the generated report to the computer in PDF format

#### Save settings

Save the selected options as default

### **View tab**



Holding the right mouse button and moving the mouse rotates the view about the origin.

#### Extras

Layer dialog: Opens the "Layers" window where objects (Dimensions, Loads, Elements, etc.) can be hidden or displayed

**Show/Hide guide lines:** Hides or displays all guide lines present on the model

#### Aspect

**3D View:** Displays the model in a perspective view

**3D View ISO:** Displays the model in an isometric view

**2D Front view:** Displays the XZ plane orthographic view

**2D Side view:** Displays the YZ plane orthographic view

**2D Top view:** Displays the XY plane orthographic view

View CAD construction: Opens the "CAD Model Viewer" to view, print, or export the assembly (see page 17)

#### View

**Zoom in:** Zooms in on the model origin

Zoom out: Zooms out from the model origin

Zoom loads in: Increases the scale of the load objects

Zoom loads out: Decreases the scale of the load objects

#### Rotation

Rotates the view vertically or horizontally about the origin. The middle button resets the zoom, rotation, and origin to default

#### Mounting Type

**Floor:** Configures background colors to view from above the model

**Ceiling:** Configures background colors to view from below the model

### **CAD** model viewer

CAD model viewer	
	Icons
	Left to right:
	Zoom extents
	Zoom window (click and drag inside the
	viewport to draw the window)
	• Zoom in
	• Zoom out
	Show/hide coordinate system icon
	Home view
	Left view
	Right view
	Front view
	Back view
	• Top view
	Bottom view
	Detailed view
	Simplified view
Use 2D geometry	By right-clicking inside the viewer, additional
System: AutoCAD 2013 (3D) Show hidden lines Options Export Close	options appear (Rotate, Pan, Print, Copy to
	Clipboard, etc.)
	— System
	Select the CAD program the model will be

exported to

Note: When exporting a 2D drawing, select the "Use 2D geometry" box before selecting the System so the correct options are available in the System list

#### Use 2D geometry

Uncheck to export a 3D model or check to export a 2D drawing of the model as it appears in the viewer

#### Show hidden lines

When exporting a 2D drawing, uncheck to hide hidden lines or check to display hidden lines

#### Options

Opens the "Settings" window to adjust attribute options including layer, color, and linetype

#### Export

With the CAD program open, click "Export" to create the object in the CAD program

Chapter 3

2)

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Section 3.1	Dimensions	Page 19
Section 3.2	Beams	Page 20
Section 3.3	Pipes, airducts, and cable trays	Page 21
Section 3.4	Pipe properties window	Page 22
Section 3.5	Airduct properties window	Page 23
Section 3.6	Cable tray properties	Page 24
Section 3.7	Loads	Page 25
Section 3.8	Load properties window	Page 26
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### **3D** design

Expert Design Mode enables the user to design virtually any configuration/any geometry using Hilti Modular Supports.

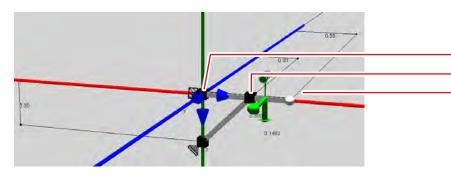
Add a new project or create a new project



Select "Design basis" and "Load combination design basis"

Apply different load combinations using "Load combinations" table

#### **Dimensions**



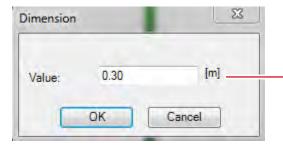
#### To add a dimension in the drawing:

Click the "Dimension" button:

Select the first node

Select the second node

Select the location of the dimension label



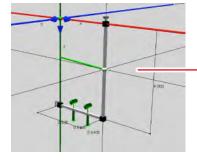
#### To edit a dimension in the drawing:

Double click the dimension to change Enter the new value

Note: Whenever possible, create dimensions from the origin to the node (as shown). When editing dimensions between nodes, the node closest to the origin will drive and the node farther away will be driven



### Beams



### To add a beam in the drawing:

Click the "Add Beam" button:



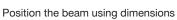
Select the location of the first end of the beam

Note: The first beam node must be placed on the zero point or an existing beam

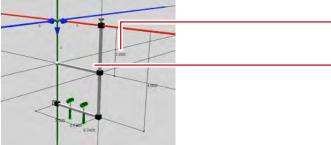
Select the location of the second end of the beam

Note: The line will turn green when the mouse is moved over a valid beam location (along a major axes, node guideline, another beam, etc.). The new beam will also snap to run along a guideline if the location of the second beam end is selected close to the guideline it will run along

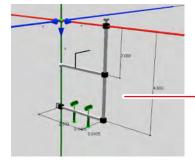




Double click the beam to change beam properties (see page 13)



### Pipes, airducts, and cable trays



## To add a pipe, airduct, or cable tray in the drawing:

Click the "Add" button for the desired item:



Select the location on the beam

Move the mouse around the beam location to rotate the direction of attachment. Click to select an orientation. Do the same to select the direction of travel for the item



### **Pipe properties window**

oe properties				-	x	
Pipe Load						Load
Pipe Group: Type of pipe:	All Schedule 40			upport spacing (L): 2.13 I support spacing (L): 2.13	[m] [m]	Displays loads associated with the pipe. Als allows for additional loads to be manually entered
Size of pipe: Outside diameter: Wall thickness:	1" - Ø 33.4 m 3 .4 3 t	n [mm]	•	0		Spacing Edit spacing between supports along pipe Other properties
Insulation material:	C asswool	- [mm]	Lock valu	ē		Add or remove insulation and pipe fill by selecting the boxes
Pipe ring group:				and an and a		Pipe properties
Pipe ring:			-			Edit type and size of pipe
Base plate group:			<b>T</b>			Insulation properties
Base plate: Threaded rod:		_	*			Select insulation material and thickness (if applicable)
Construction weight:	0.0	[kg]				Pipe support properties
Weight:	5.3	[kg]	2.5	[kg/m]		Select support type and assembly options
Additional weight:	0.0	[kg]	0.0	[kg/m]		Select support type and assembly options
Total weight:	52	[ka]	25	[ka/m]		Weight
Distance:	0.26	[m]	Position lo	ocked		View supported weight and add additional weight if necessary
	[	User defined	Set as def	ault OK	Cancel	Distance
					-	Edit the position of the pipe along the beam

### **Airduct properties window**

Airduct					
Group:	Ali	•	Max support :	spacing (L): 3.00	[m]
Type of Duct:	Duct	•	Actual suppor	t spacing (L): 3.00	[m]
Height:	0.20	▼ [m]		1	- 1
Width:	0.20	▼ [m]			_
Wall thickness:	0.8	▼ [mm]			
Insulation material.	Glasswool				
Insulation material.	Glasswool 5.0	- [mm]	Lock value		
	1		Lock value	[kg/m]	
Thickness:	50	- [mm]		[kg/m] [kg/m]	

#### Load

Displays loads associated with the pipe. Also allows for additional loads to be manually entered

#### Spacing

Edit spacing between supports along pipe

#### Other properties

Add or remove insulation and pipe fill by selecting the boxes

#### **Pipe properties**

Edit type and size of pipe

#### Insulation properties

Select insulation material and thickness (if applicable)

#### Weight

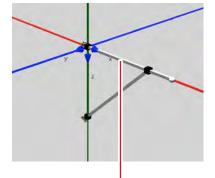
View supported weight and add additional weight if necessary

### **Cable tray properties**

Add Cable Tray						
Group:	All		Max supp	ort spacing (L): 2.44	[m]	Displays loads associated with the pipe. Als allows for additional loads to be manually
Туре:	8A	+	Actual sup	pport spacing (L): 2.44	[m]	entered
Height:	0.10	▼ [m]			1 L	Spacing
Width:	0.61	▼ [m]			-	Edit spacing between supports along cable
Wall thickness:	0.0	▼ [mm]				tray
L					e	Pipe properties
Weight:	18.1	[kg]	7.4	[kg/m]		Edit type and size of cable tray
Additional weight:	0.0	n	nn	Ilem/mal		Weight
Total weight:	18.1	[kg]	7.4	[kg/m]		View supported weight and add additional
						weight if necessary
Total weight:	18.1	[kg]	7.4	[kg/m]		



### Loads



#### To add a load in the drawing:

Click the Add Custom Load button (Template Design or 3D Design Projects):

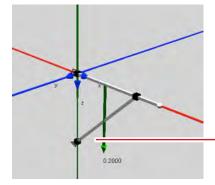
Or the desired Live Load button (Channel):

▲ Add point load Add distributed load Add moment

Select a point on the beam that the load acts on

Enter the values where necessary in the Load Properties window (see page 26)

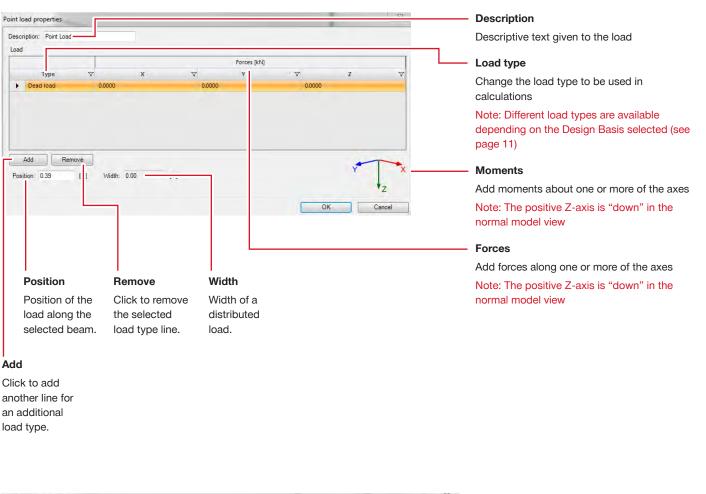
Note: Depending on project type, some load properties may not be available



#### To edit a load in the drawing:

Double click the load to change Enter new values where necessary in the Load Properties window (see page 26)

### Load properties window



escription: Distributed Lo	bad						
oad							
Input unit							
⊘ [kN]							
-	-			Forces [kN/m]	0		
Туре	V	х	V	Y	V	Z	
Dead load	0.0000		0.0000	-	0.0000		
Add Remo	ve					-	-
Position: 0.00	[m] Width	1.34	[m]			Y	
Load on whole beam -							-
						ок (	Cancel

#### Distributed load properties

Distributed load is applied to the entire length of the beam

Chapter 4

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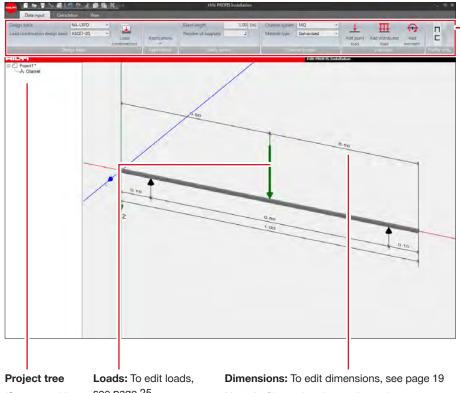
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### Channel

Hilti button > Channel



(See page 11)

see page 25

Note: In Channel projects, dimensions are preset

#### Quick Access Toolbar (See page 4)

Design Basis (See page 11)

#### Applications

Standard templates for various types of channel construction

Static system

Beam length: Define channel length either in the ribbon or using the dimension on the model (see page 20)

Number of supports: Determine number of supports present in model. Positions are edited using dimensions on the model (see page 16)

#### Channel system

Channel system: Select channel systems to include in calculations

Material type: Select channel material or finish to include in calculations

Note: Not all material types are available for each channel system

#### Live loads

Selecting a load case opens the load properties window (see page 26)

#### **Profile orientation**

Change orientation of channel

Calculate Clear calculation	Bort Diagrams Mox	6el												
FUET	and a second								Hati PROFIS	Installatio				
Project1"	Channel typ	e	7.8	fax utilizati	ion [%]			V De	effection utiliz	ation [%]	-		V OK	
	R H5-2-7/161-1	12 dik 11/16" RG 828		.36				1.0					~	-
					Force at, supp. point [kN]			Bending moment (kNim)				Deflection [mm]		
	Support	position V Length (m)	V			7 10				-				mala a
			Y	A 10	4.1	A IC	0.1		√ Mz 0.0000		7.4		▼ Z	A IC 2
	0.10	0.10	0.0000	LCI	0.745	s ici	0.0000	EC1	0.0000	101	0.0	515-101	00	515-101
		0.80					-0.2870	LC1	0.0000	102	0.0	515-1(1	0.0	515-LC1
	0.90		0.0000	LCL	0.748	S LCL								
		0.10					0.0000	1001	0.0000	LC1	0.0	515-101	0.0	5L5-LC1
	Channel typ	e	VA	tax utilizati	ion [%]			· 7 De	effection utiliz	ation [%]			V OK	
	8 15-1-5/01-12	ga 11/16" PG 828	1	4.57				4	76				~	
			Force at, supp. point [khi]			Bending moment (khim)				Deflection (mm)				
	Support	position V Length (m)	7	TIC		7 10	₩ My		V Mz	TIC			v z	710 1
		010		.v	Y 2		0.0000	LCI	0.0000	103	0.0	3540		515401
	0.10	0.00	0.0000	101	0.736	3 101	00000	0.3	00000	55.4	64	369661		36346.1
		0.80					-0.2850	LCL	0.0000	101	0.0	55401	0.1	515-101
	0.90		0.0000	103	0.735	3 LC1								
		0.10					0.0000	101	0.0000	101	0.0	9,540	0.0	SLS-LC1
	Channel typ	e	V N	tax utilizati	ion (%)			V T De	effection utiliz	ition (%)			7 06	
	B H5-1-5-8"-12	ga FG 828	5	4.58				4	76				~	
			Force at			Force at. supp. point [khi]			Bending moment (khim)			Deflection [mm]		
	Support	position V Length (m)	7	7 10		V IC	7 My		V Mz	VIC	V V		72	VIC 1
		010				1.15	0.0000	LCS	0.0000	LCS	00	515403		SUS-LC1
	0.10		0.0000	101	0.737	0 101				194	00	-		- Aleren
		0.80					-0.2860	LCS	0.0000	103	0.0	9540	0.1	SLS-LC1
	0.90		0,0000	LCL	0.737	0 LC1								
		0.10					0.0000	LC1	6,0000	LCI	0.0	SLS-LC1		SLS-LC1

#### Calculation

**Calculate:** Creates a calculation (using the Model Options selected) and makes the Result tab available

**Clear calculation:** Removes current calculation to allow for changes and recalculation

#### Result

**Report:** See page 22 **Diagrams:** Displays graphical representations of the bending moment and deflection diagrams

### Options

**Model options:** Adjust defaults for maximum beam displacement, maximum cantilever allowable deflection, and minimum deflection limit

#### Results

Left to right, top to bottom:

**Channel type:** Type of channel used to calculate values

**Max utilization:** Maximum stress utilization from tensile, shear, and equivalent stresses

**Deflection utilization:** Maximum beam deflection utilization

**OK:** Denotes whether or not the channel type can be used in the application

Support position: Placement of support node along beam

Length: Distance between support nodes

Force at support point: Load acting at support node

**Bending moment:** Bending moment acting between support nodes

**Deflection:** Deflection between support nodes

Chapter 5

0)

0

# **BIM/CAD EXPORT**

1000

90

 $\square$ 

90

 $\square$ 

500

### **BIM/CAD Export**

Hilti Button > Create or add new BIM/CAD Export > Installation Systems Basis and View tabs refer back to Page 11 and Page 16 respectively.

Product Tree	Views	Detail	
Use to navigate through products/templates by type. Select a product/template to open it in the export window Note: In the Profis BIM/CAD Library, in addition to exporting installation system products/templates, there are anchor and firestop systems products/templates available for export	Select the model view as an orthographic view (from top to bottom: front, right, top, back, left, bottom) or as an isometric view	Select either a "High Detail" (realistic) or "Simple Detail" (block) object to export Note: "Simple Detail" may not be available with all products/templates	
Home		PROFIS BIM/CAD Library	
Direct Fastenge     Accord System     Accor	Vet of detail () togt detailed		<ul> <li>Version</li> <li>Select either a 3D object to export or a 2D object with one or more views</li> <li>File export</li> <li>Select a file type to export (dwg, jpg, pdf, etc. and click Generate to create the file</li> <li>Object export</li> <li>Select a CAD system to export to (AutoCAD, Inventor, Solidworks, etc.) and with the CAD program open, click Insert to create the object in the CAD program</li> <li>Automatic preview generation</li> <li>Click to determine whether or not the model proview reference on a spinor open and an an</li></ul>
Rait support I/OP			preview refreshes as options are changed
Not take VOP     Open channels consent Wolt     Open channels consent Wolt     Open channels conserts     Wol     Speed oci trapeze harger VH-     O;     Por into addle integral WOA      Powerd or Openiod			<ul> <li>Regenerate view</li> <li>With "Automatic Preview Generation" off, clid to refresh the model preview with the selecte options.</li> </ul>
			- Preview
			Show an enlarged model with the selected options
			- Configuration
			Adjust attributes of the system including products, sizes, base materials, connection

types, lengths, etc.

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