digipara® liftdesigner

Product Loading: Cabin Design & Visualization

PL9

Recommendation

ONLINE TRAINING

Are you an attendee in a DigiParaLiftdesigner online training module?

We recommend to print these out in advance so that you have a handout for your own editing and for your notes during your training.

Agenda

CABIN DESIGN

PL9.1 General Information

- Product Loading Workflow

PL9.2 Cabin Configurator

- Cabin Configurator Properties

PL9.3 Product Loading: Cabin Design Walls

- Car Design
- Car Walls
- Single Car Wall Panels

Agenda

CABIN DESIGN

PL9.4 Product Loading: Cabin Design Floor and Ceiling

- Car Ceiling
- Car Floors

PL9.5 Product Loading: Cabin Design Wall Components

- Mirrors and Hand Rails

PL9.6 Product Loading: Cabin Design Ceiling Components

- Lights (3D CAD Model)

Agenda

VISUALIZATION

PL9.7 3D Object Settings

- Custom Colors & Surfaces
  - Render Colors
  - Render Surfaces

PL9.8 Summary

- Custom Q&A’s

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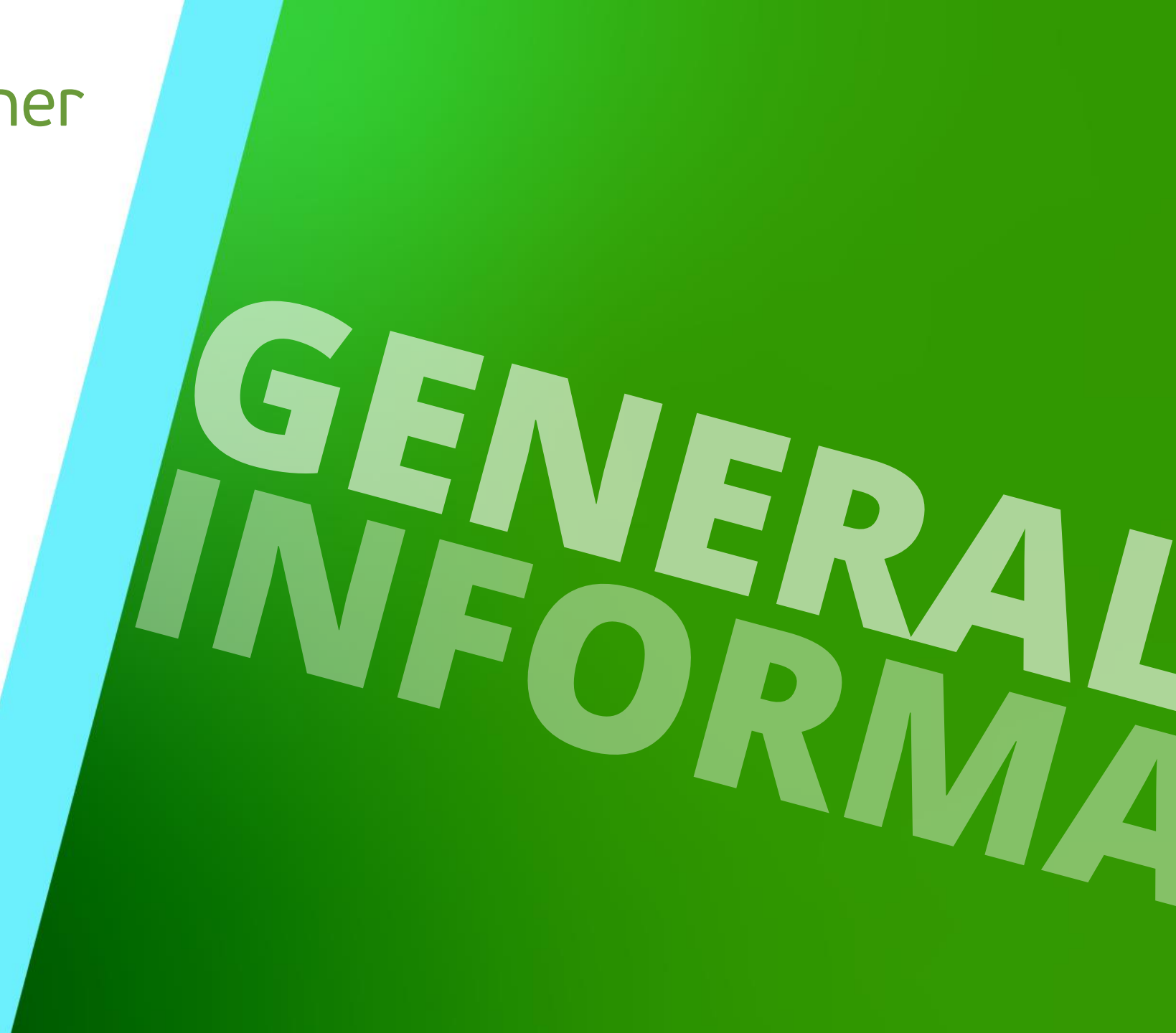
PL9.1

General Information



Loading Workflow – Typical Processes

in DigiPara Liftdesigner Datamanager

- Copy a similar BIM Component
- Edit the Meta Data
- Determine related BIM Components

in DigiPara Liftdesigner

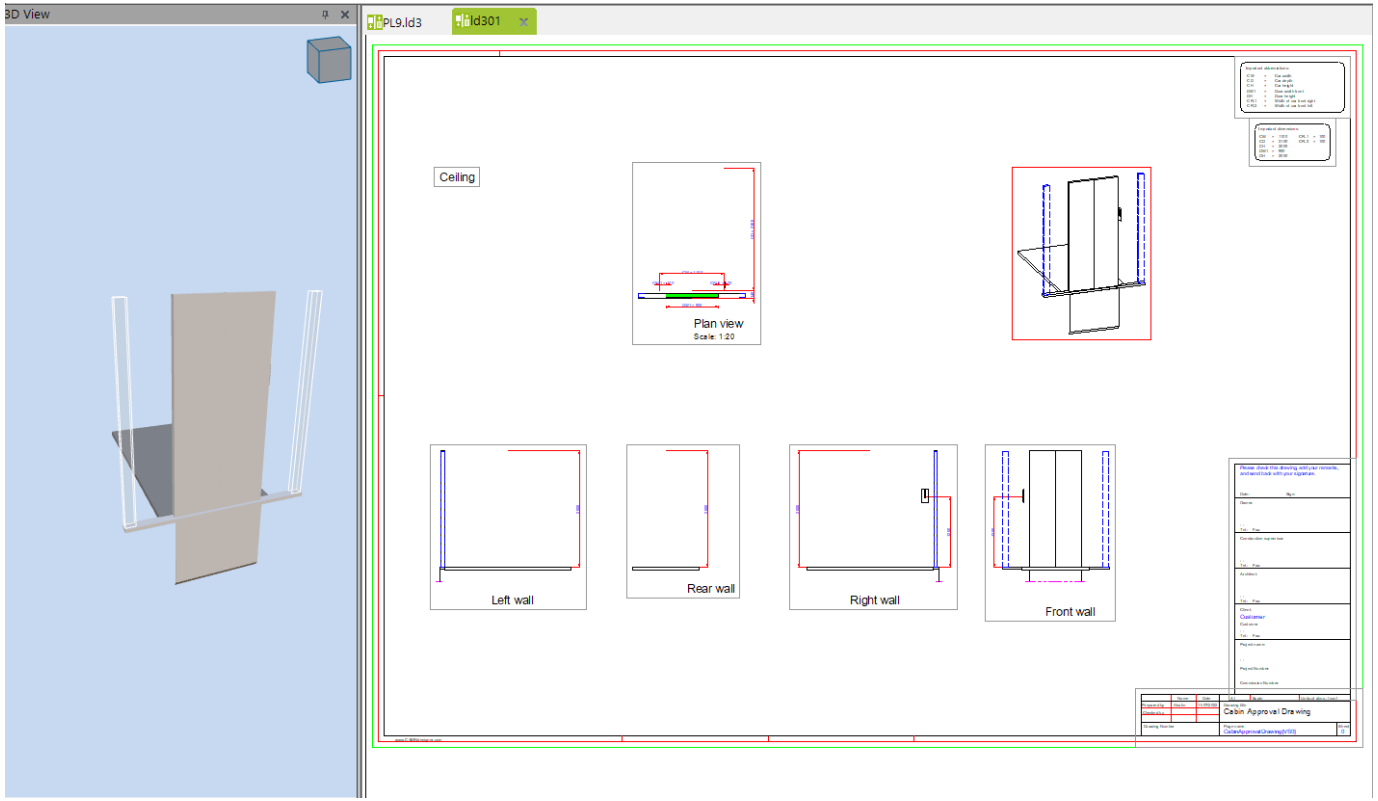
- Load your edited BIM Component
- Load the Developer Work Area
- Use Explanation of Parameters and Values
- Modify simplified 3D Geometry
- Save the BIM Component back into the DigiPara BIM Library

Loading Workflow – Preparation Steps

PL9.1 CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS

Shaft Wizard

- 3 floors
- Typical floor to floor distance 3500
  - Consider travel – no
  - Create building floor levels - no
- Traction elevator 2:1
- 13 persons / 1000 kg, 1 m/s
- Top machine room
- Car roping
  - 1 pulley top
- Counterweight roping
  - 1 pulley top / Rear
- Sheet Templates
  - CabinApprovalDrawing



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PL9.2

Cabin Configurator

Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Basic training information about Cabin Configurator and Visualization

- The cabin design must be activated to complete the necessary steps for Product Loading, so simple steps are shown in the following slides

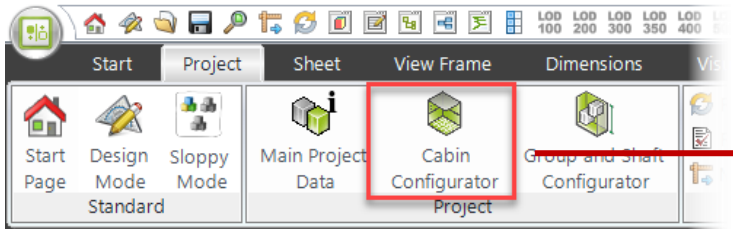
- Further information on the basic use of the Cabin Configurator is contained in the following training documents:

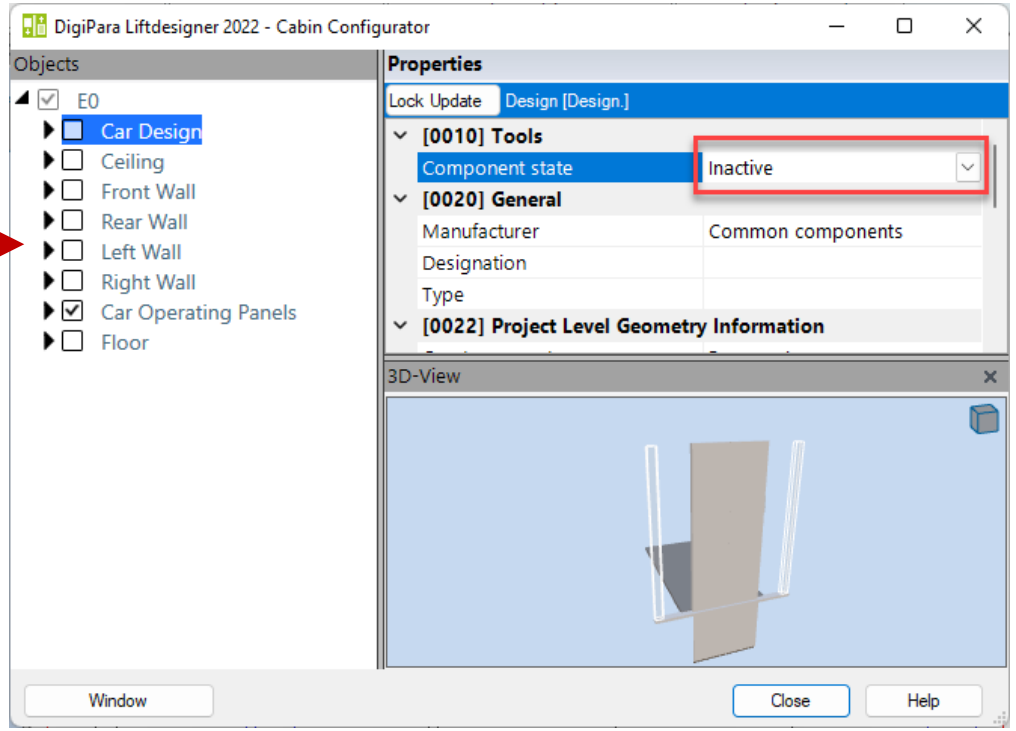
Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Activate Car Design

- When a new elevator project is created in DigiPara Liftdesigner, car design and its components appears inactive



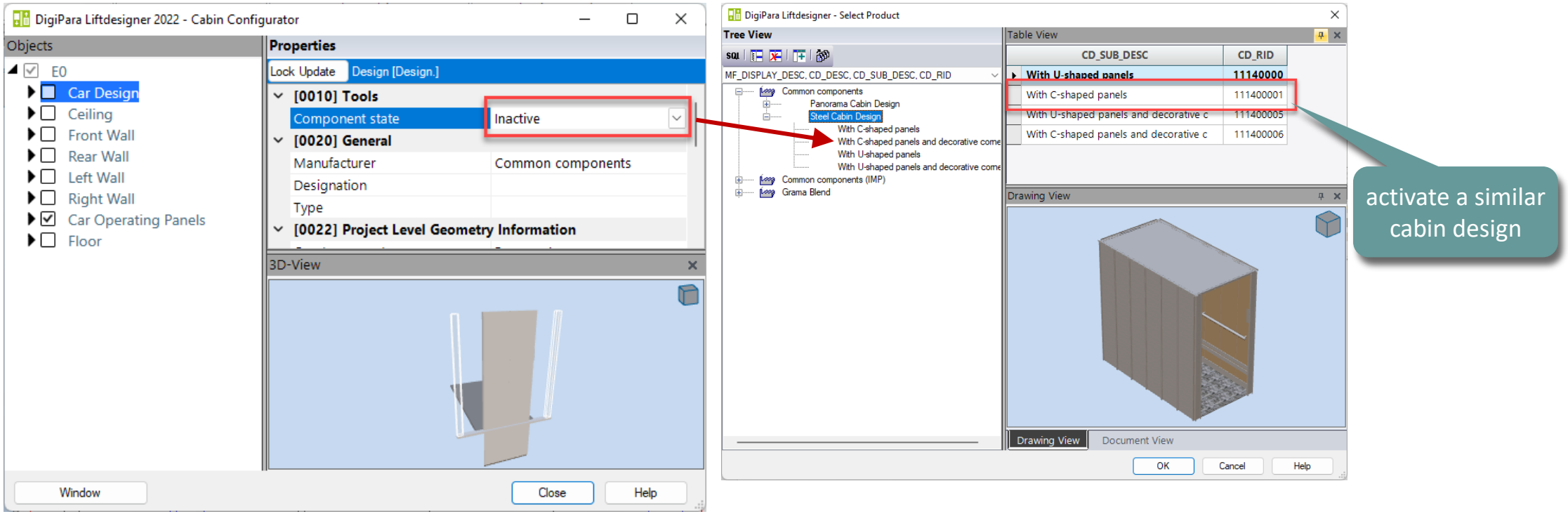


Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Activate Car Design

- Cabin design must be activated and selected

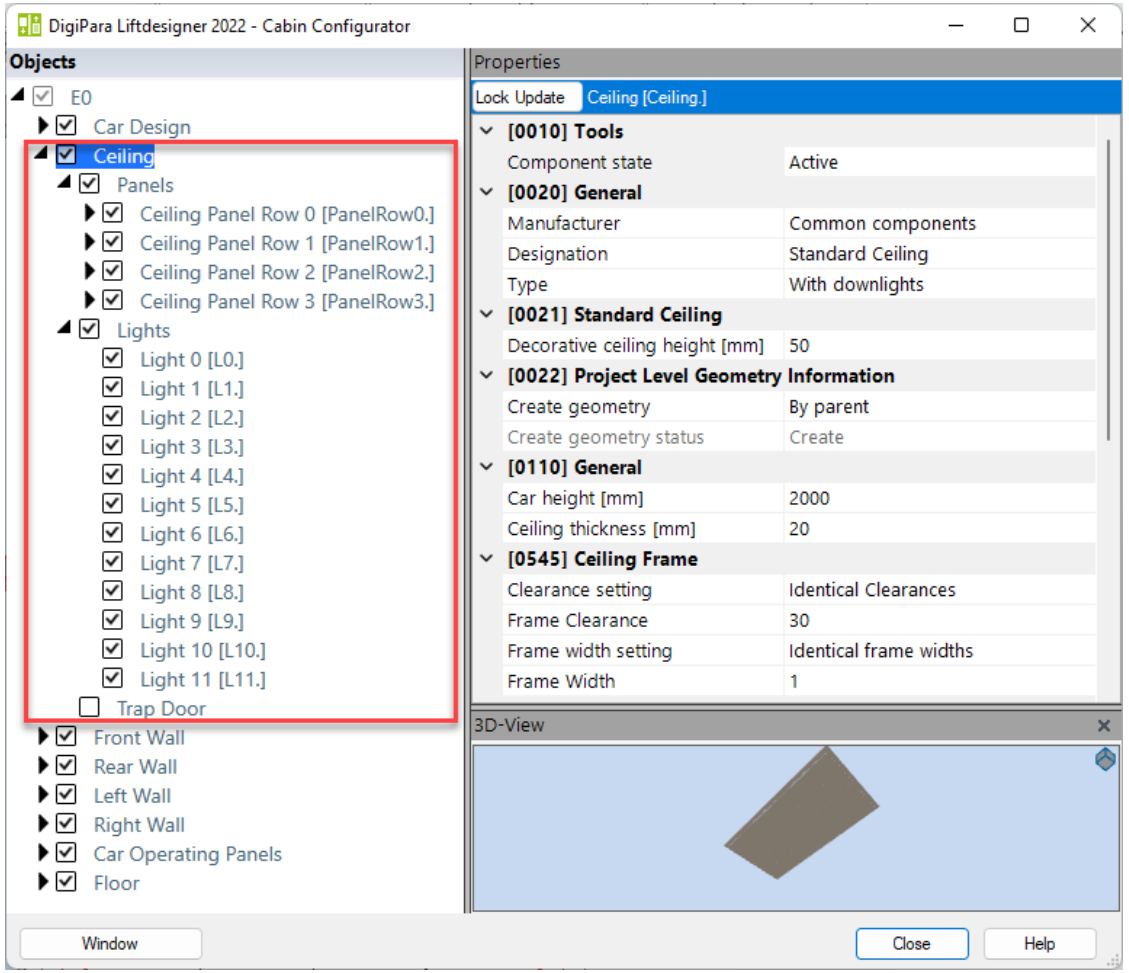


Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Ceiling and related components

- Panels
- Lights
- Trap Door



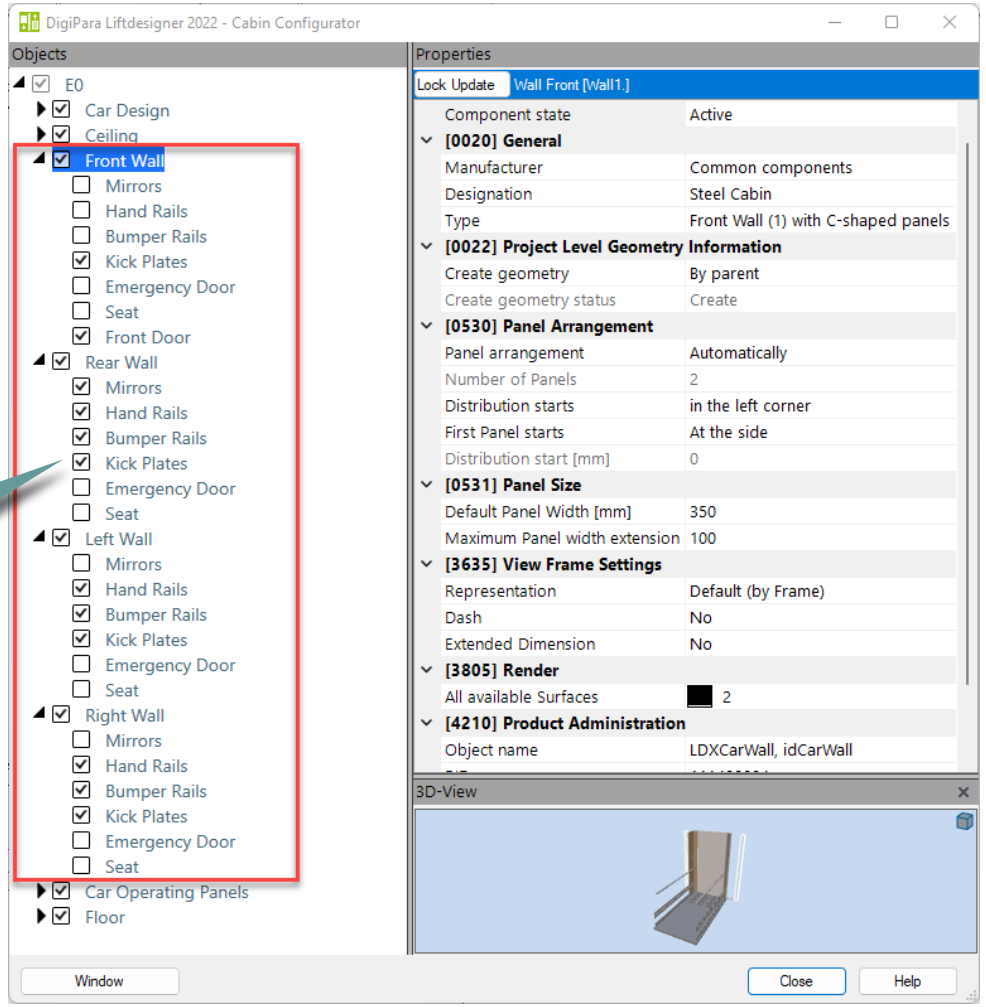
Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Walls

- Front
- Rear
- Left
- Right

Bumper Rails and Kick Plates can be deactivated

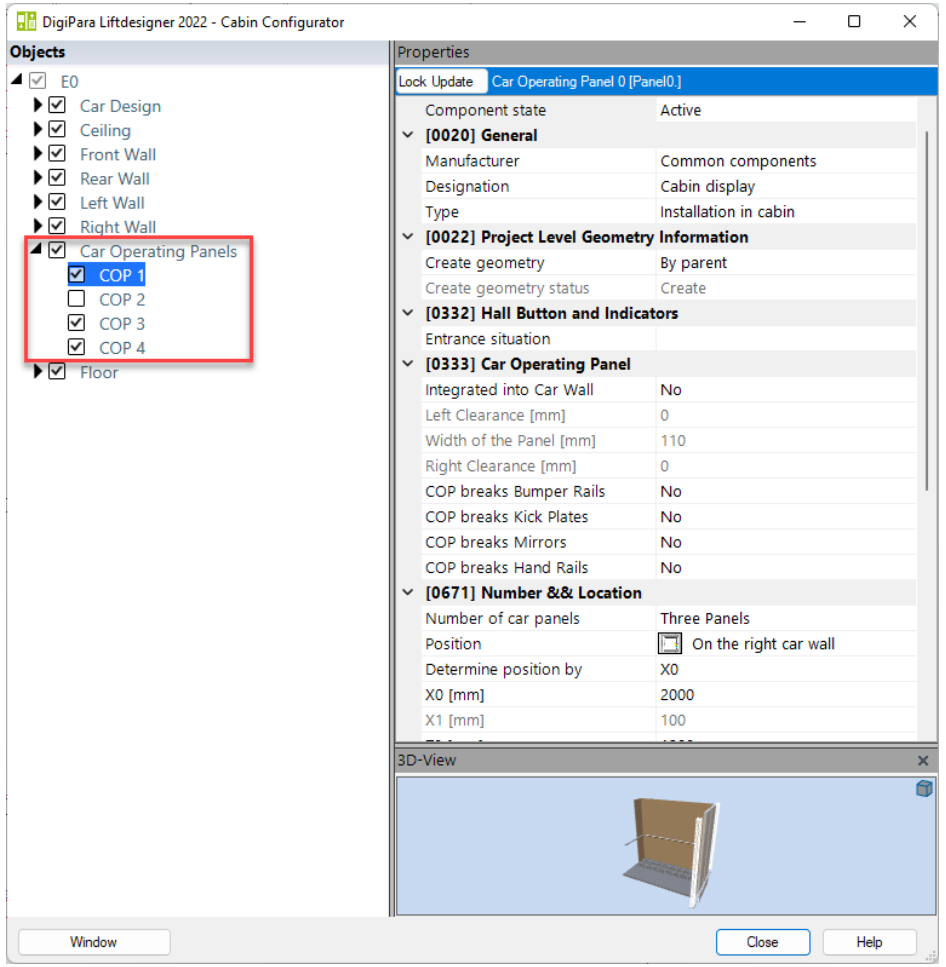


Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Car Operating Panels

- COP 1
- COP 2
- COP 3
- COP 4

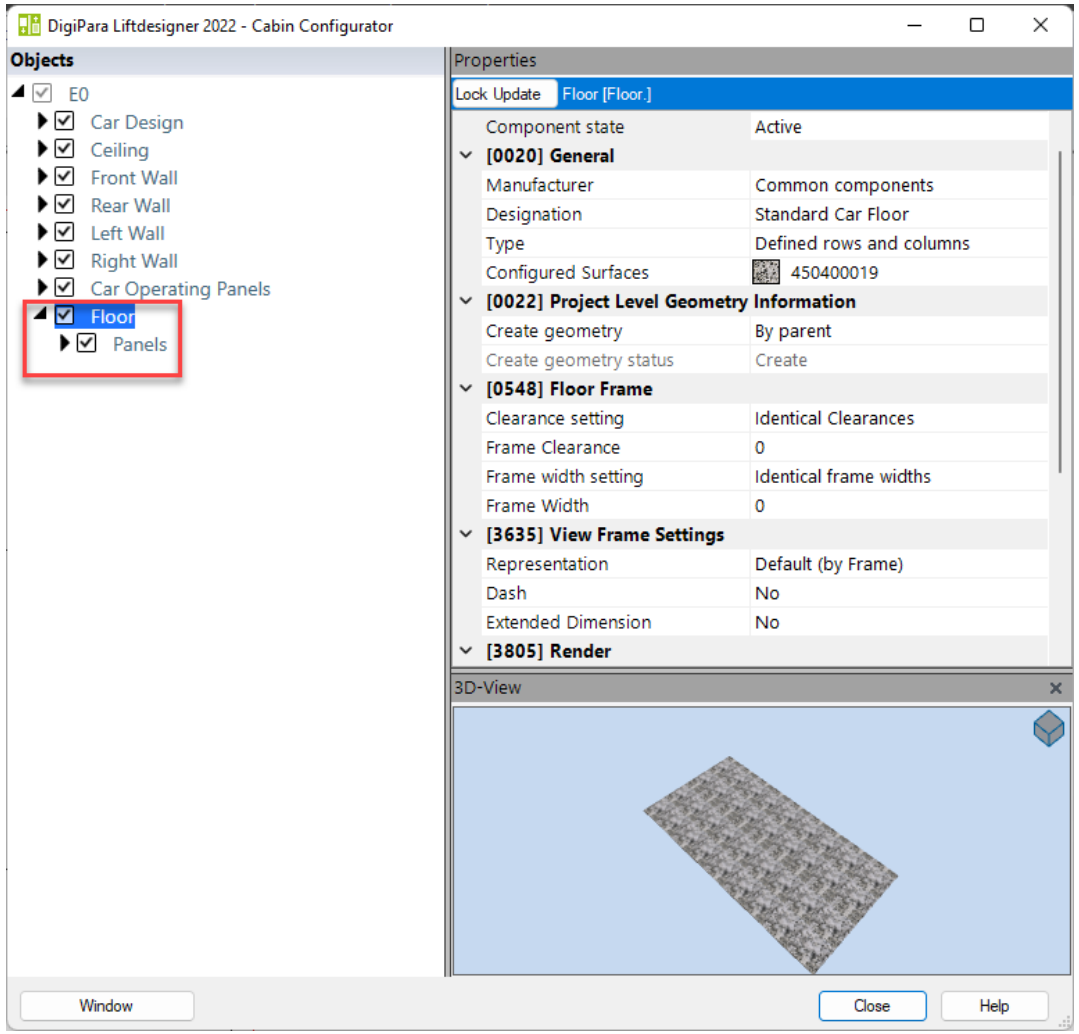


Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Floor

- Panels

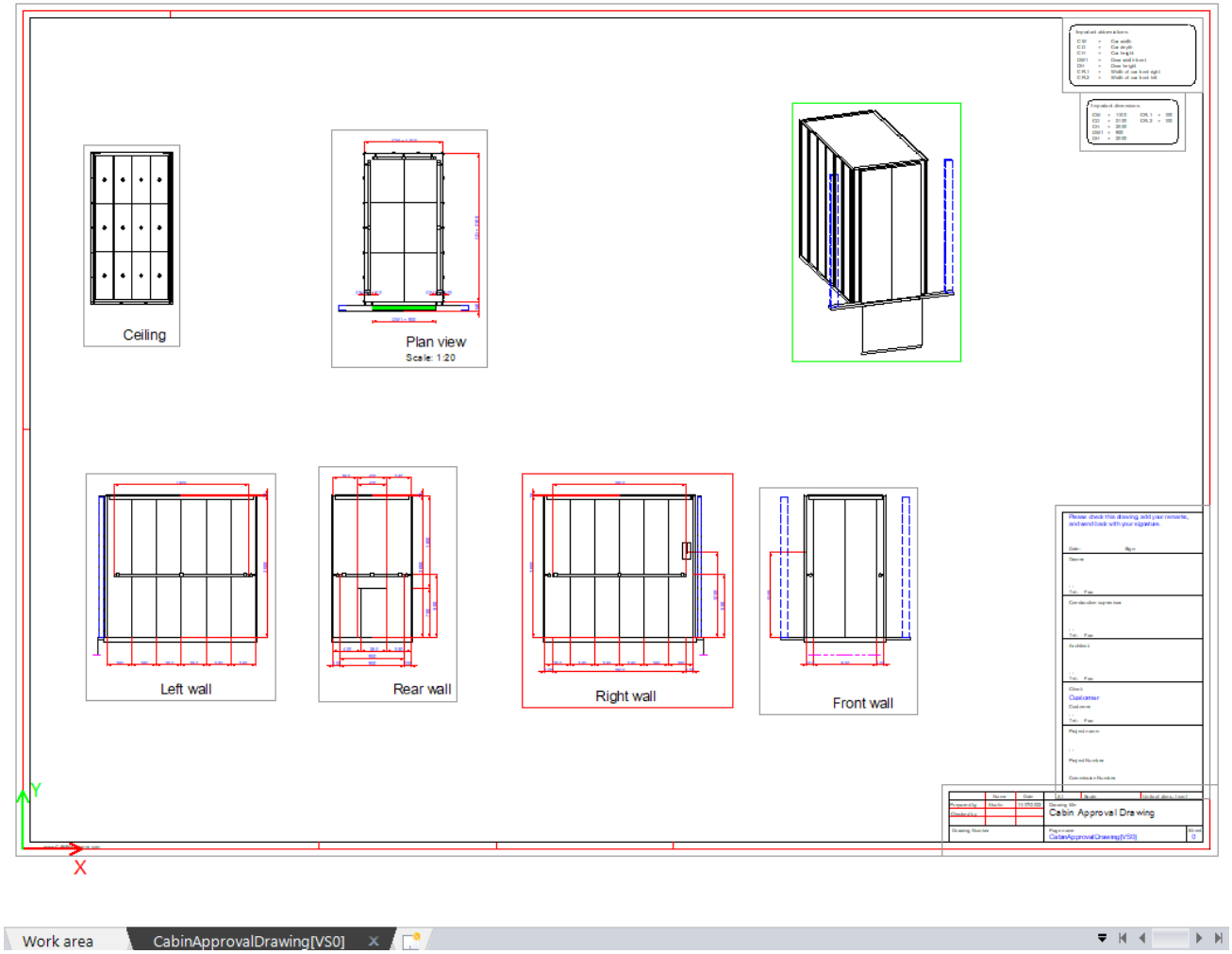


Cabin Configurator Properties

PL9.2 CABIN CONFIGURATOR

Result Layout

- CabinApprovalDrawing



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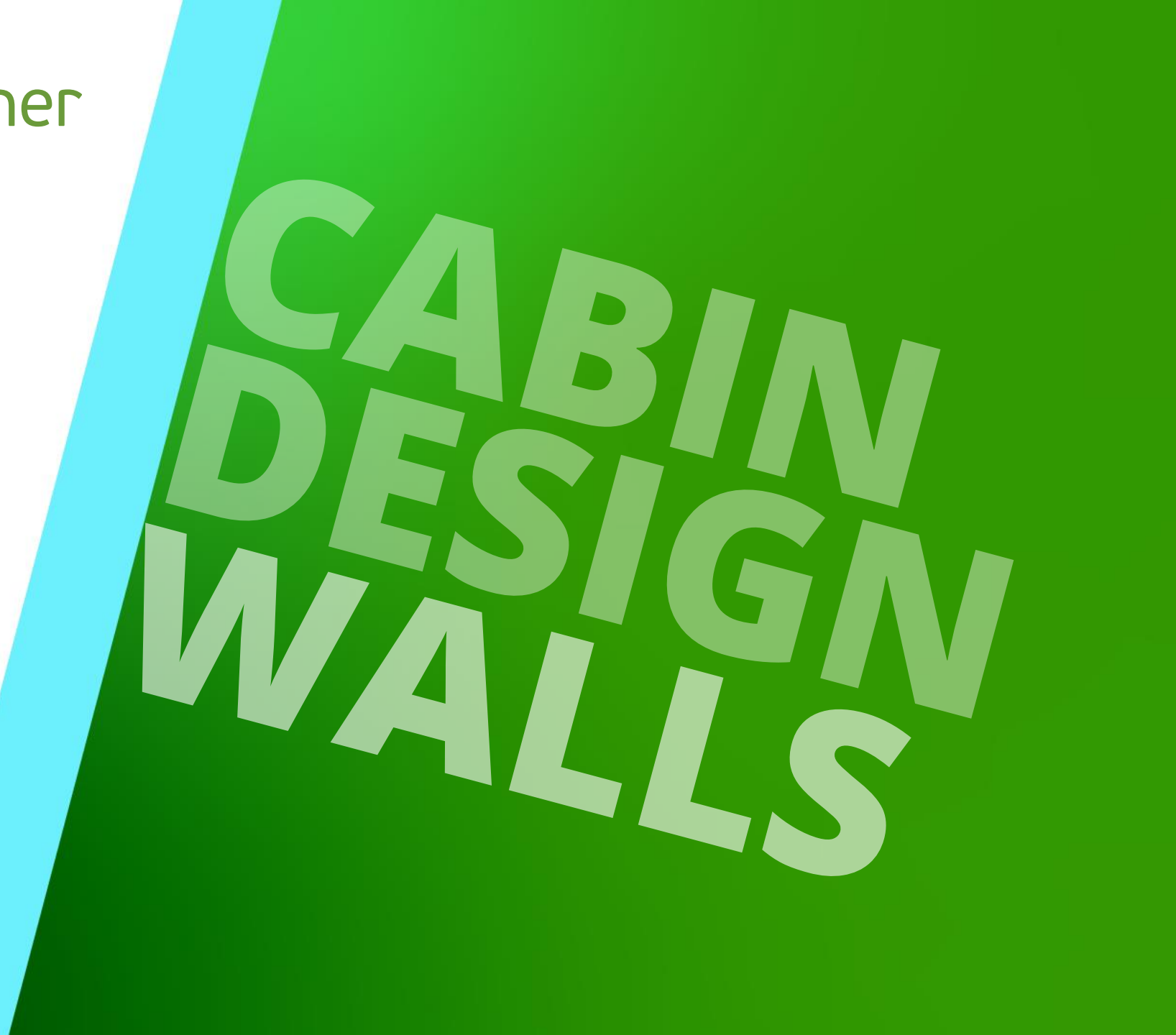
PL9.3

Product Loading: Cabin Design Walls

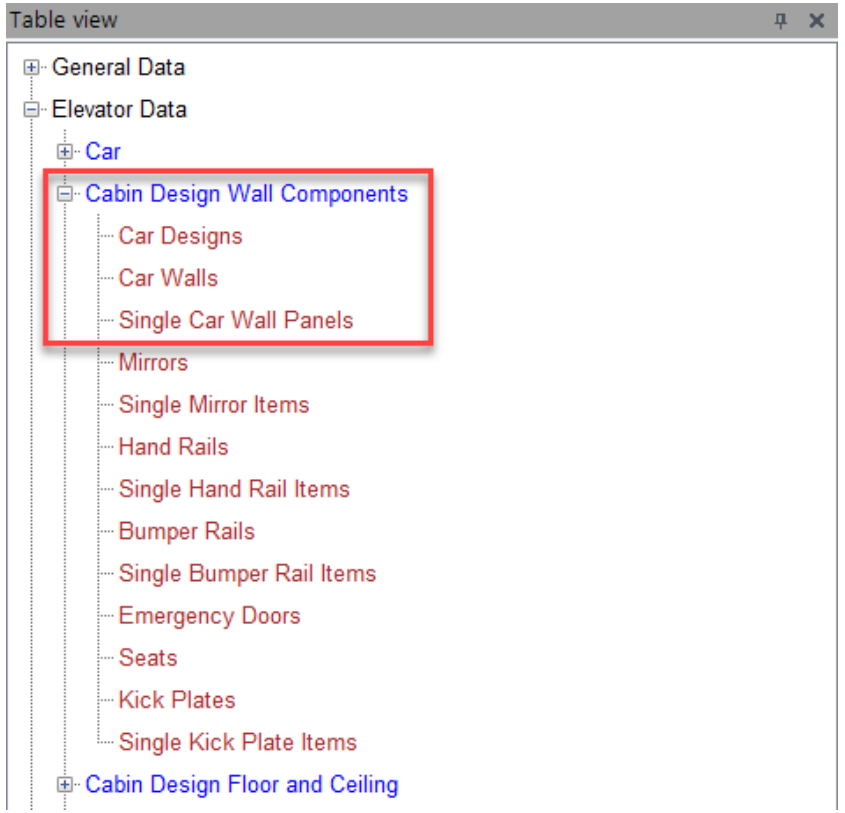


Roadmap

Step 3: Car Designs

Step 2: Car Walls (Front-, Rear-, Left-, Right Wall)

Step 1: Single Car Wall Panels



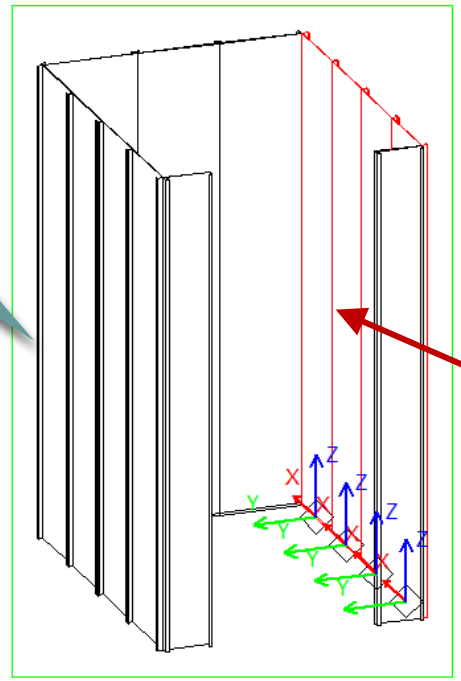
General Information

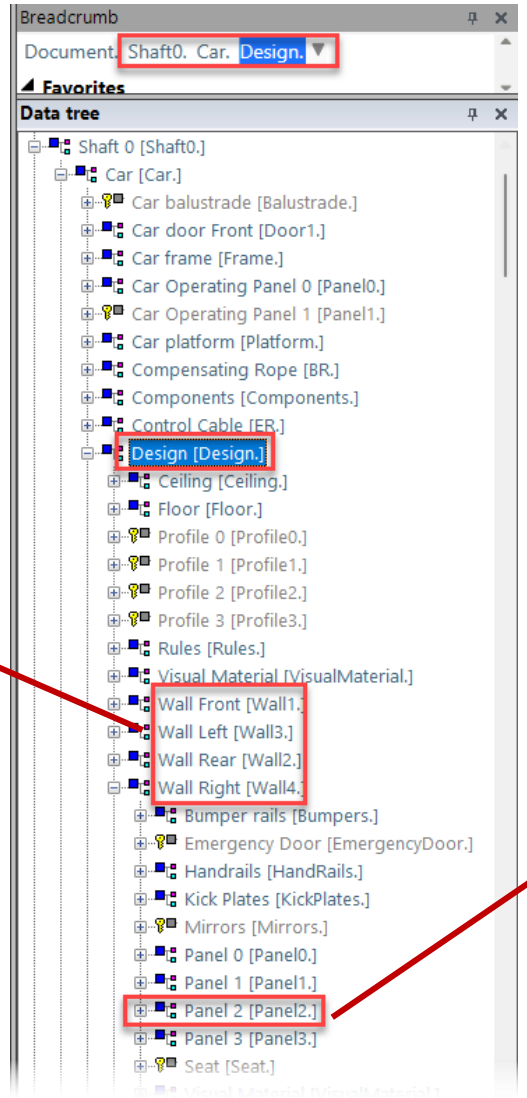
PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

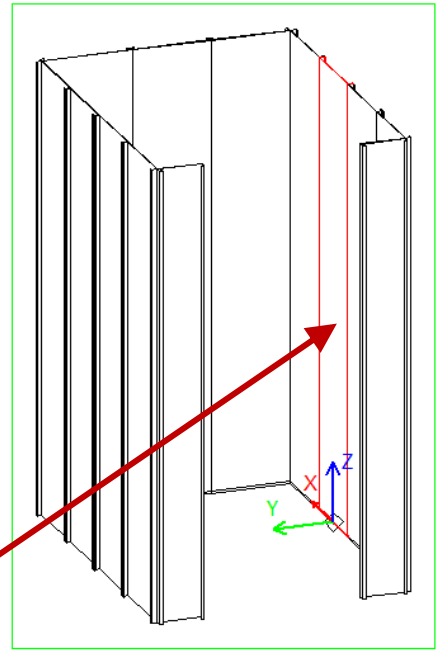
Datatree overview

Whole panel assembly:

Car Designs







Car Design

Copy a similar BIM Component

Car Design

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

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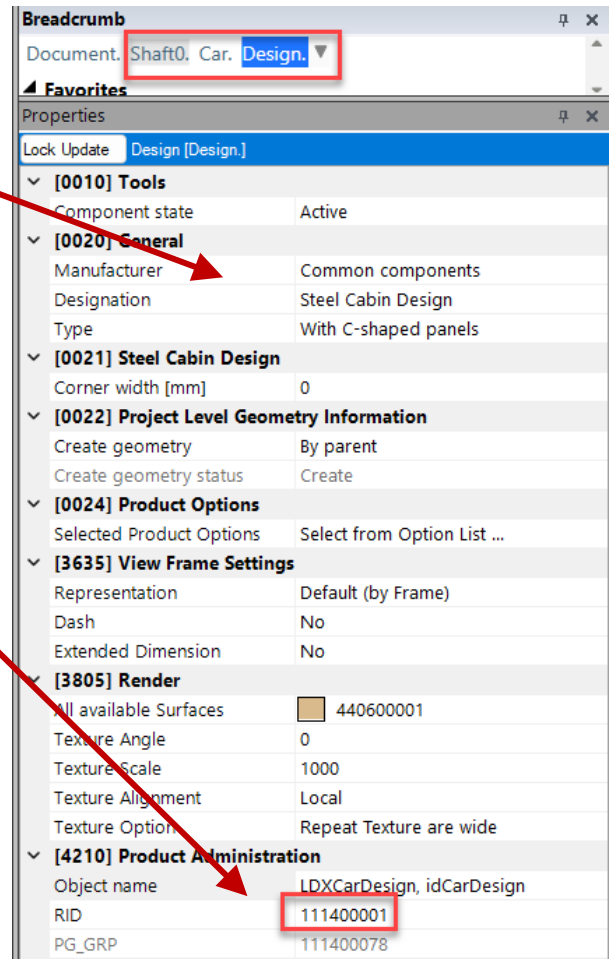
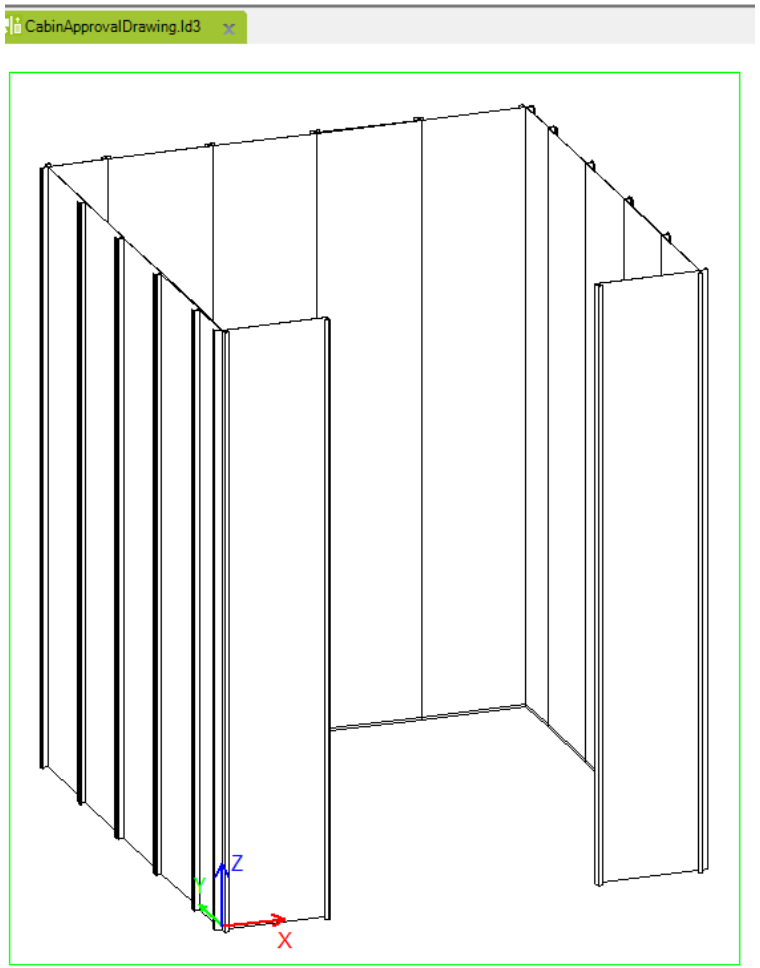
Find a similar BIM Component

- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number



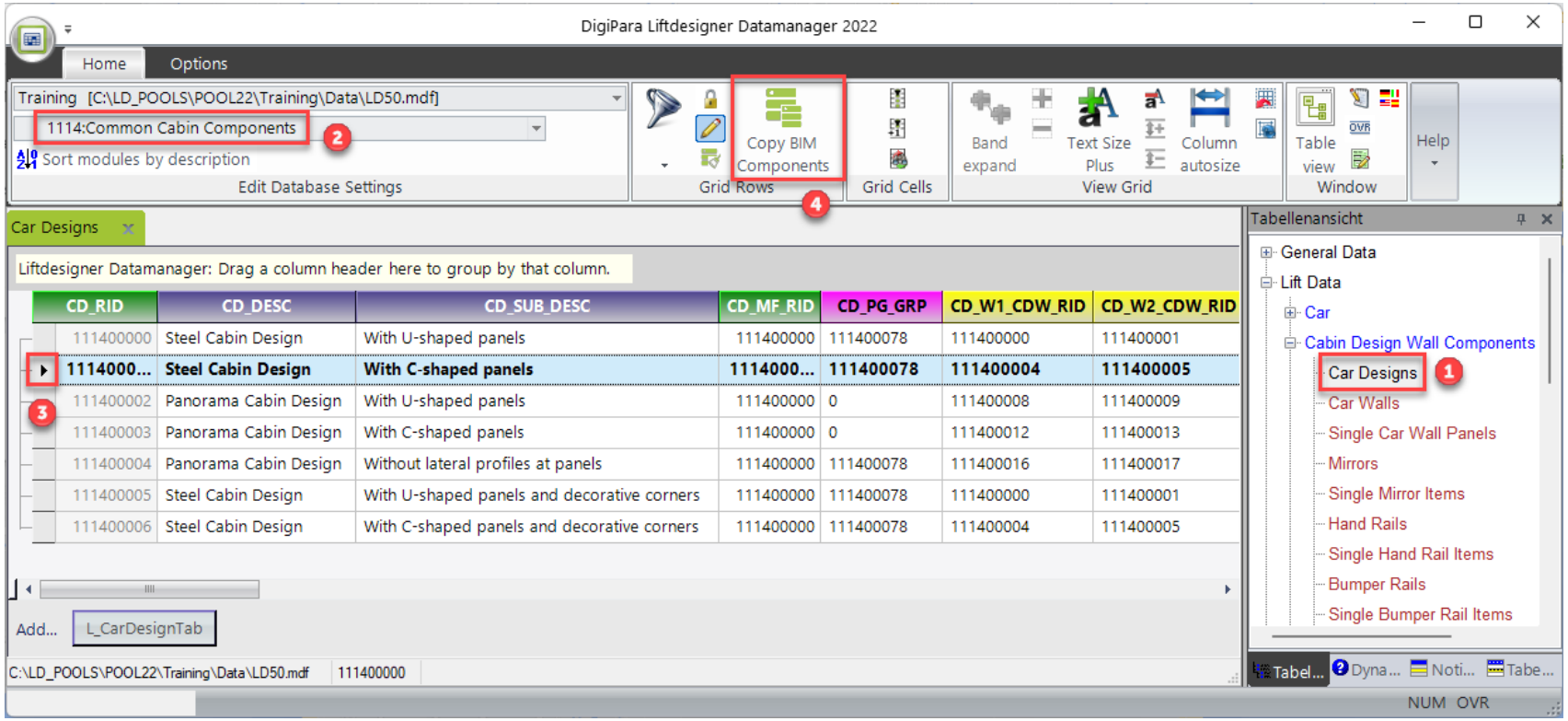


Car Design

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

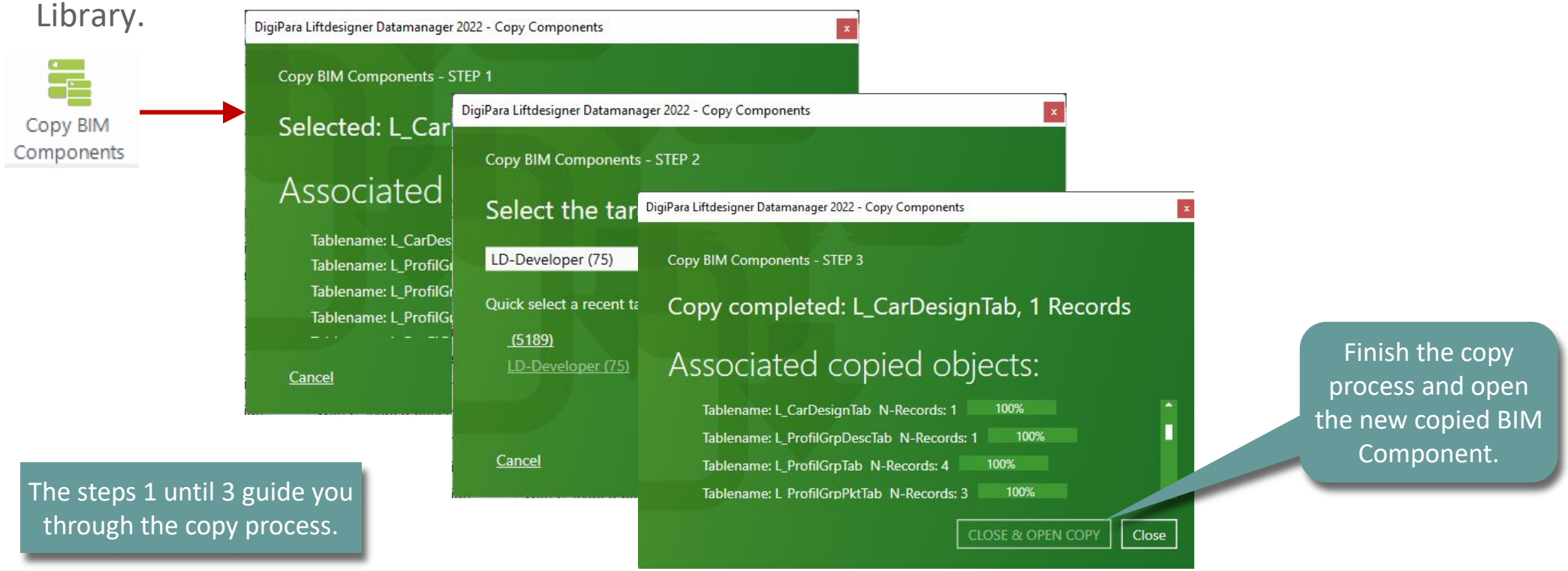
Copy a similar Component

- in DigiPara Liftdesigner Datamanager



Copy a similar Component

- The BIM Component is copied with all parameter and values to a new manufacturer / DigiPara BIM Library.



Car Walls

Copy a similar BIM Component

Car Wall 1 (Front)

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

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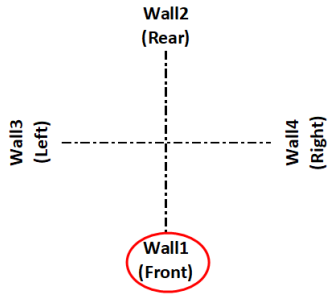
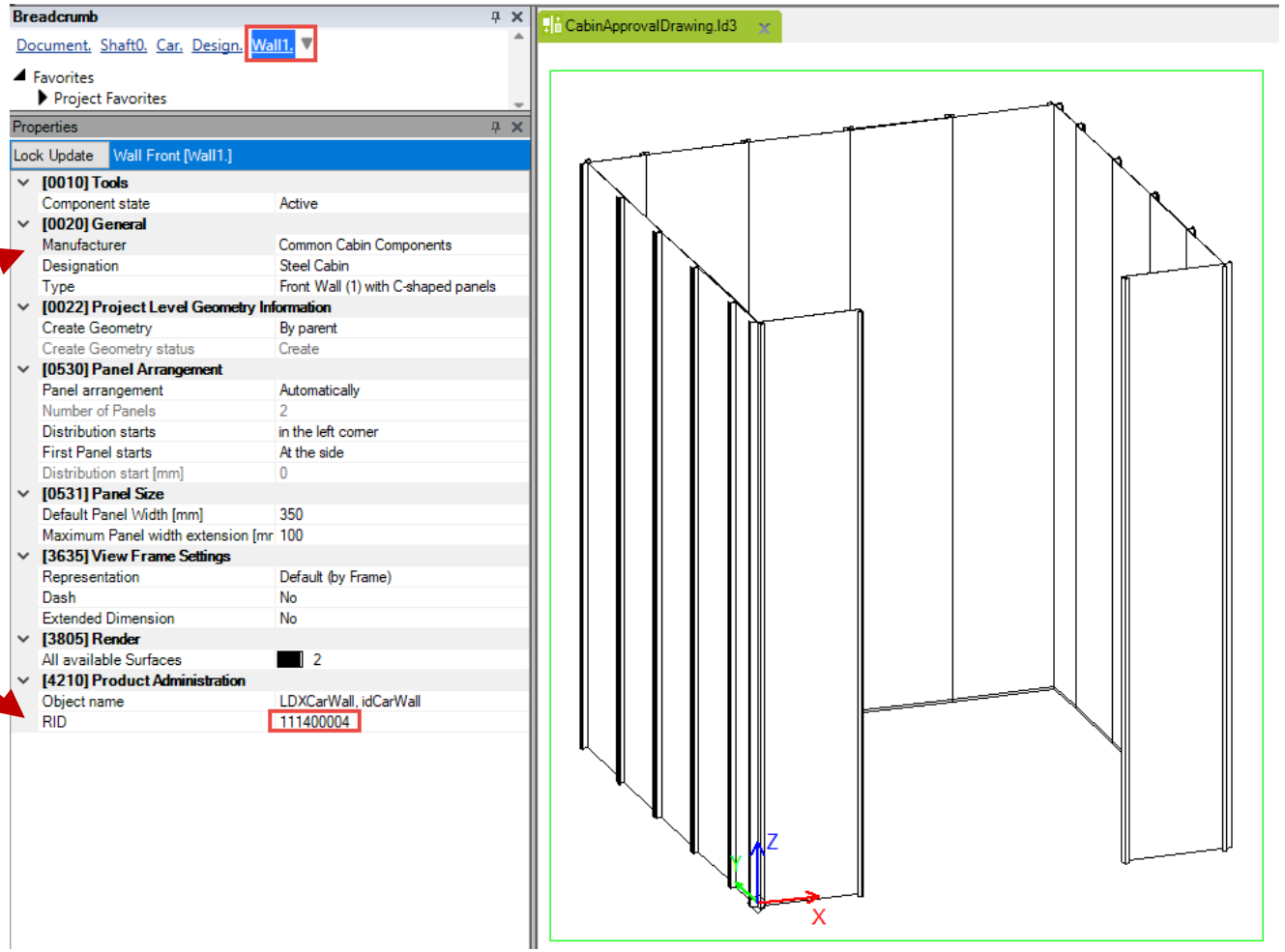
Find a similar BIM Component

- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number





Car Wall 2 (Rear)

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

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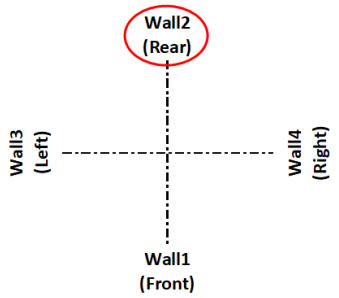
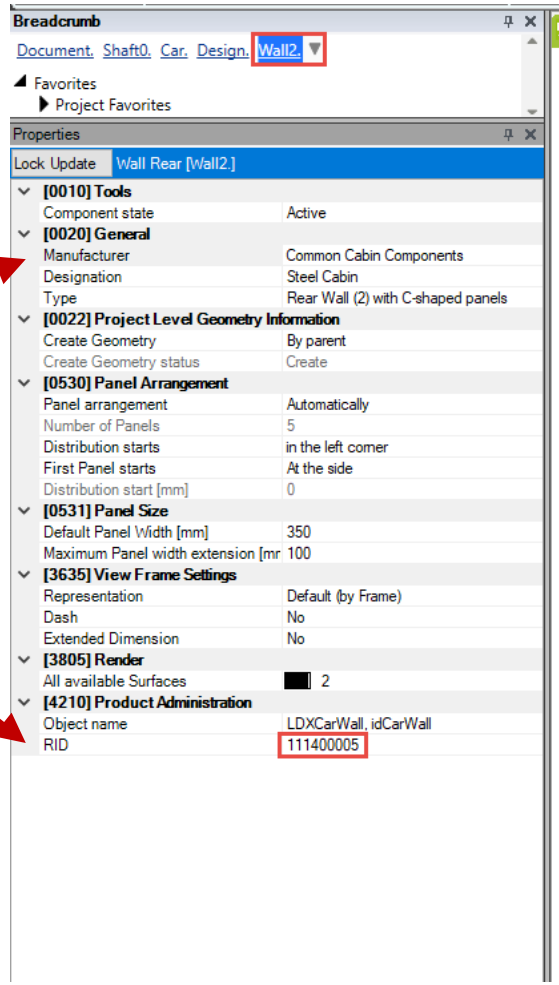
Find a similar BIM Component

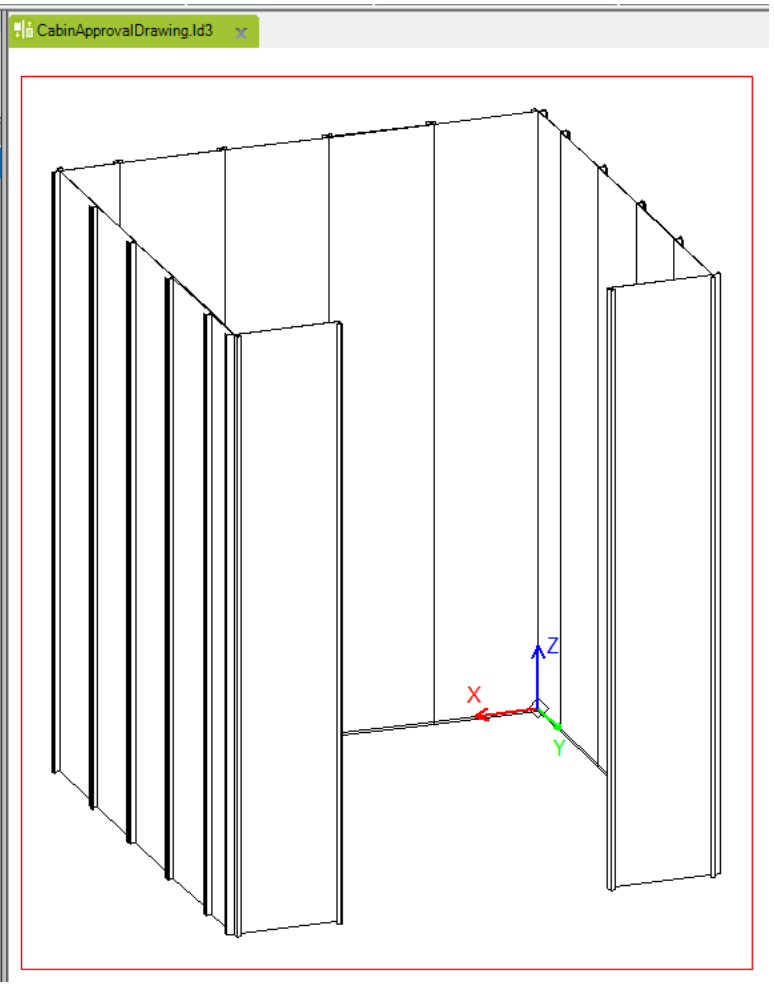
- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number







Car Wall 3 (Left)

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

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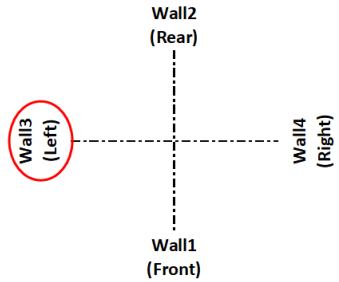
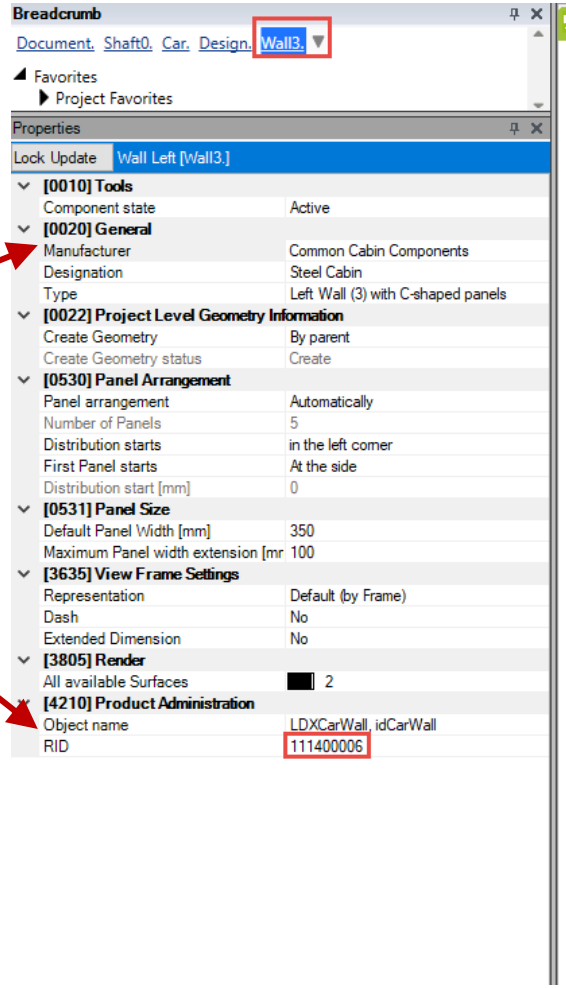
Find a similar BIM Component

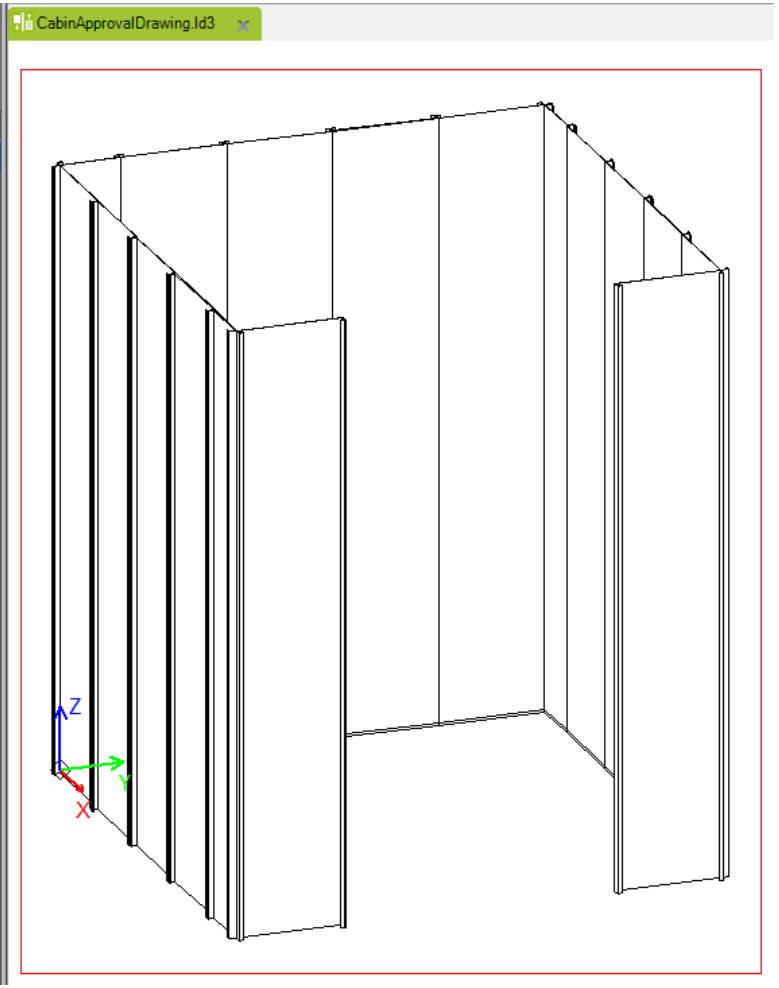
- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number







Car Wall 4 (Right)

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

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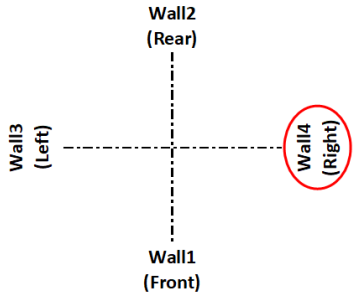
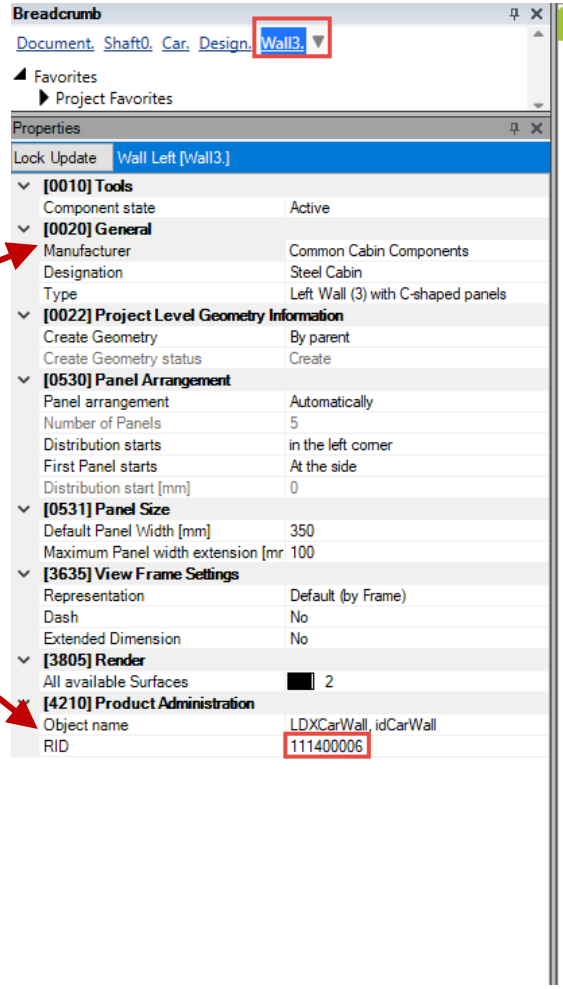
Find a similar BIM Component

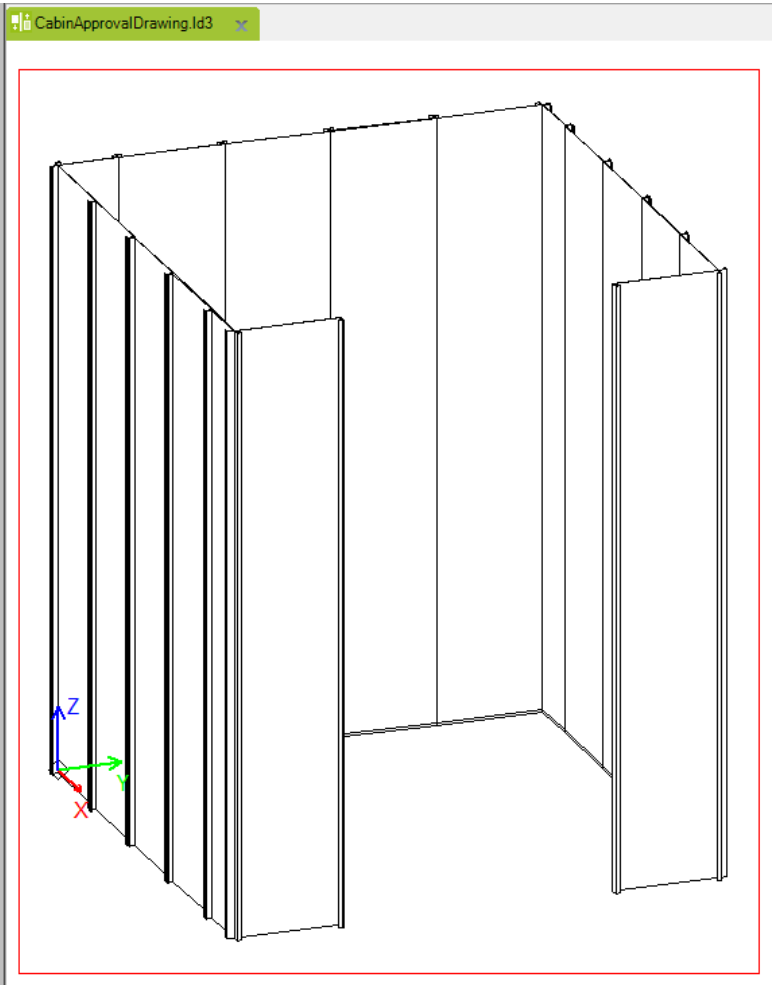
- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number





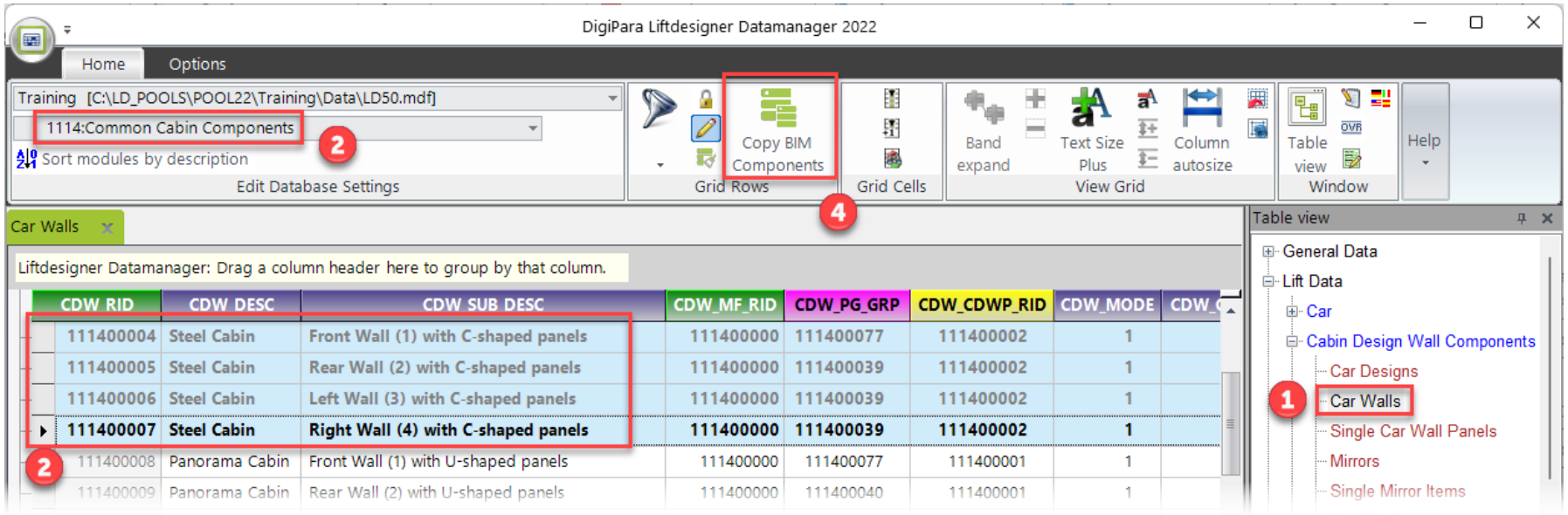


Car Walls

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

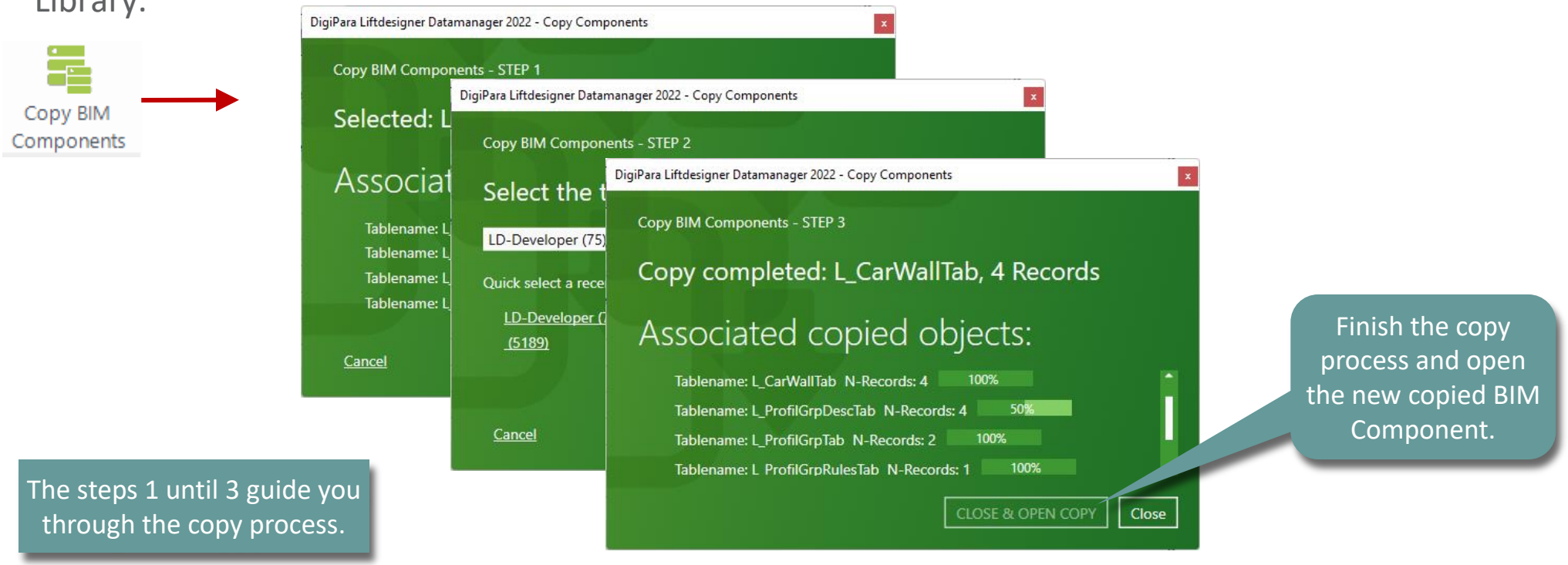
Copy a similar Component

- in DigiPara Liftdesigner Datamanager



Copy a similar Component

- The BIM Component is copied with all parameter and values to a new manufacturer / DigiPara BIM Library.



Single Car Wall Panels

Copy a similar BIM Component

Single Car Wall Panels

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

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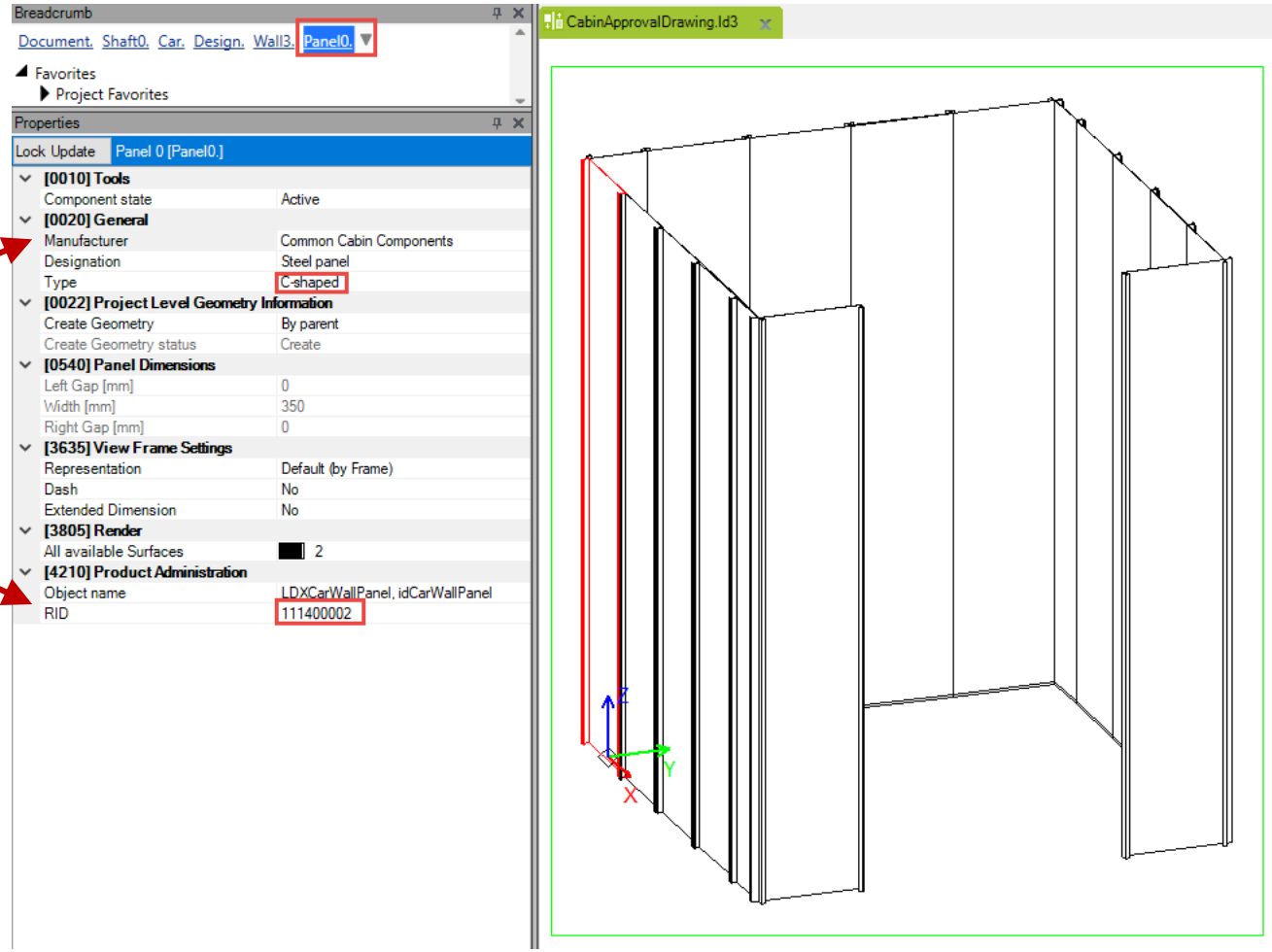
Find a similar BIM Component

- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number

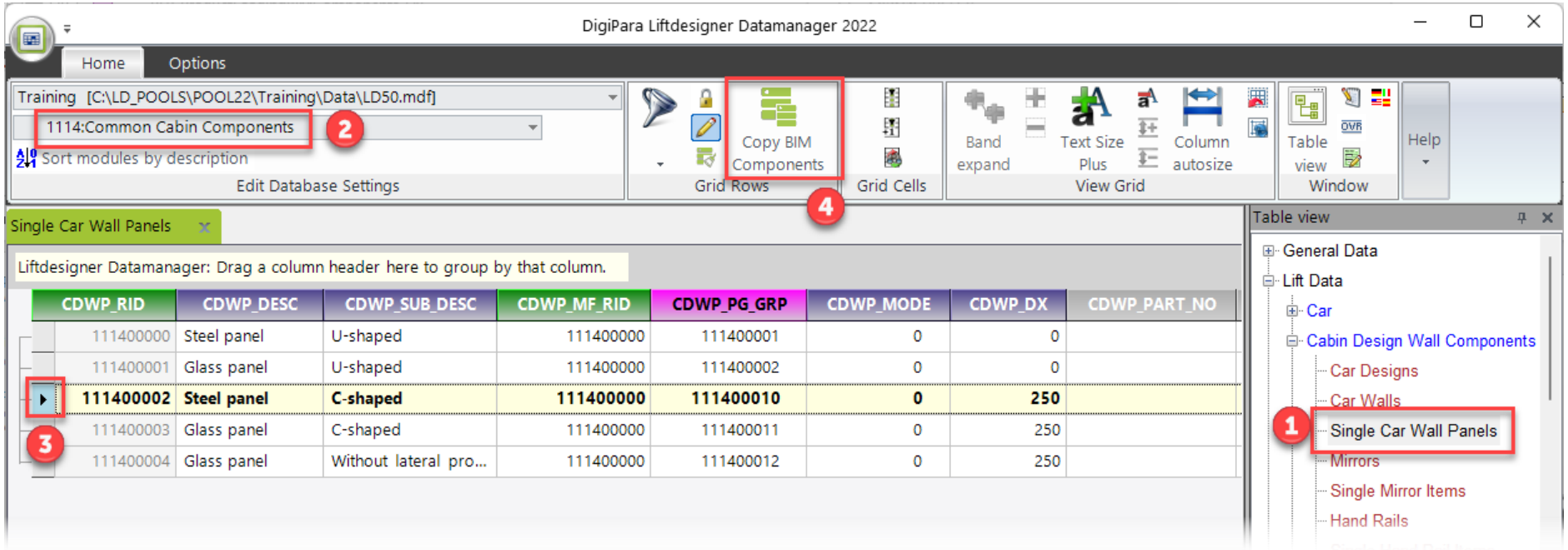


Single Car Wall Panels

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

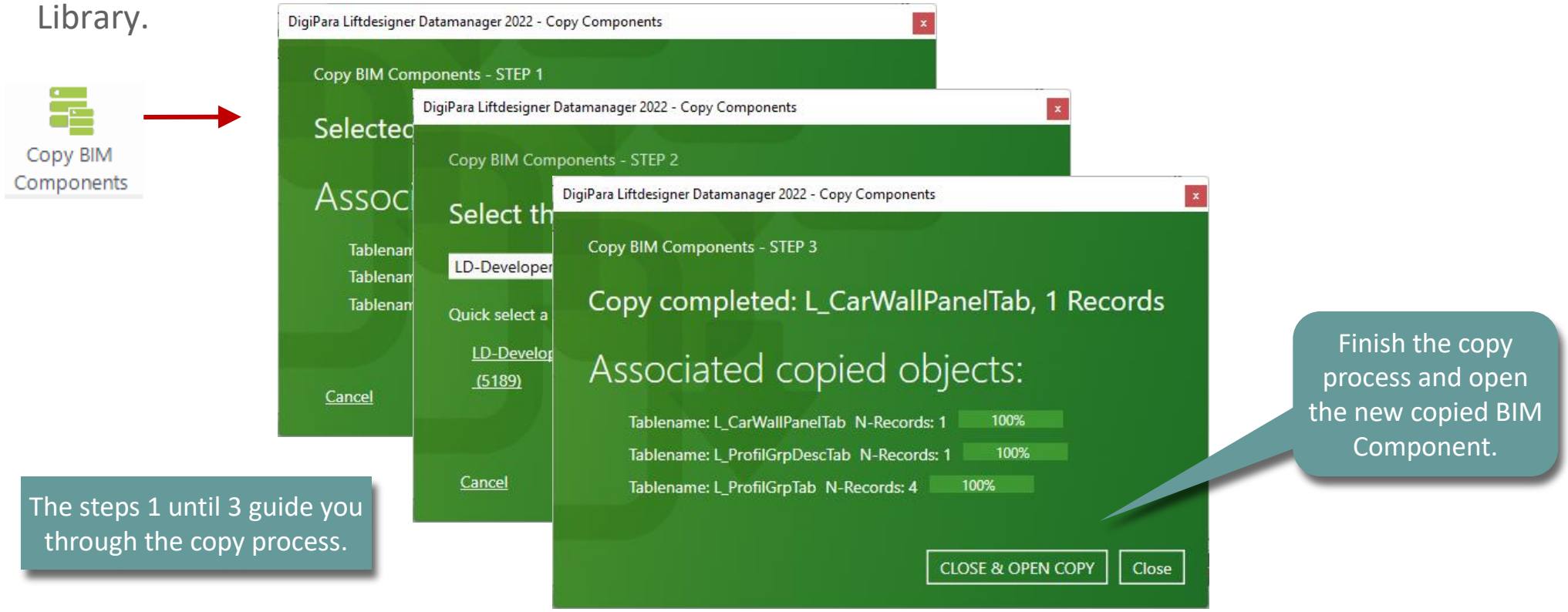
Copy a similar Component

- in DigiPara Liftdesigner Datamanager



Copy a similar Component

- The BIM Component is copied with all parameter and values to a new manufacturer / DigiPara BIM Library.



Car Design Walls

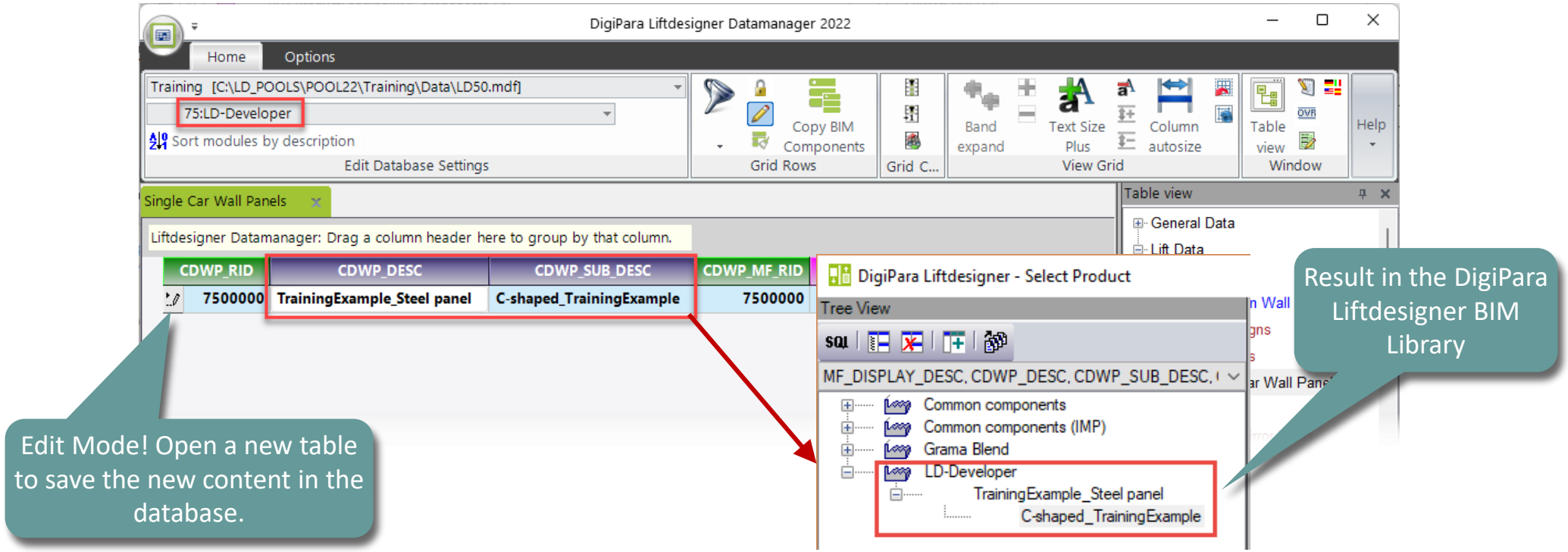
Edit the Meta Data & Determine related BIM Components

Edit the Meta Data

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

Description: Single Car Wall Panels

- Add a new specific description for the new copied BIM Component

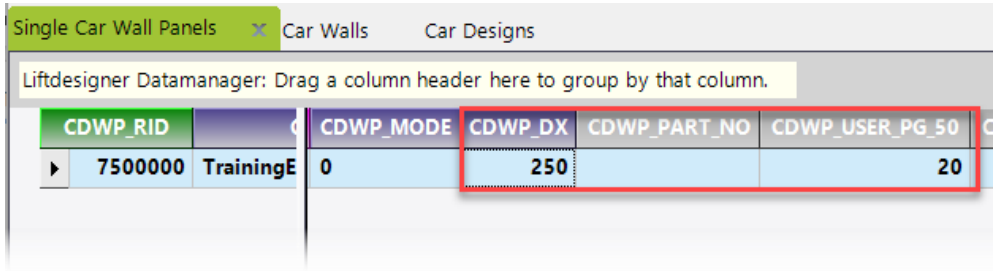


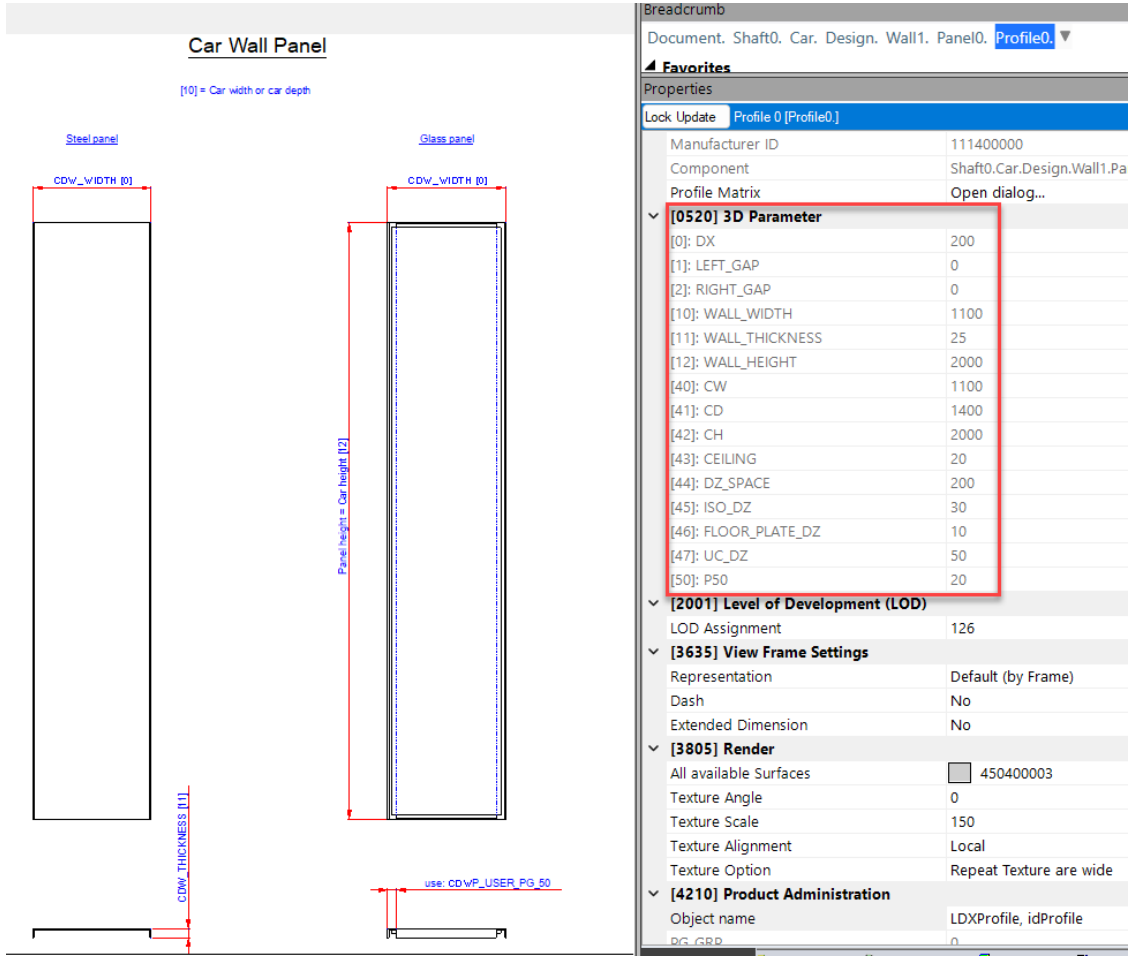
Edit the Meta Data

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

Parameters and Values: Single Car Wall Panels

- The corresponding developer file (.dwg) with explanations about the BIM Component parameters is loaded automatically:
  - C:\ProgramData\DigiPara\2018\dcc\DataPool\developer\dwg



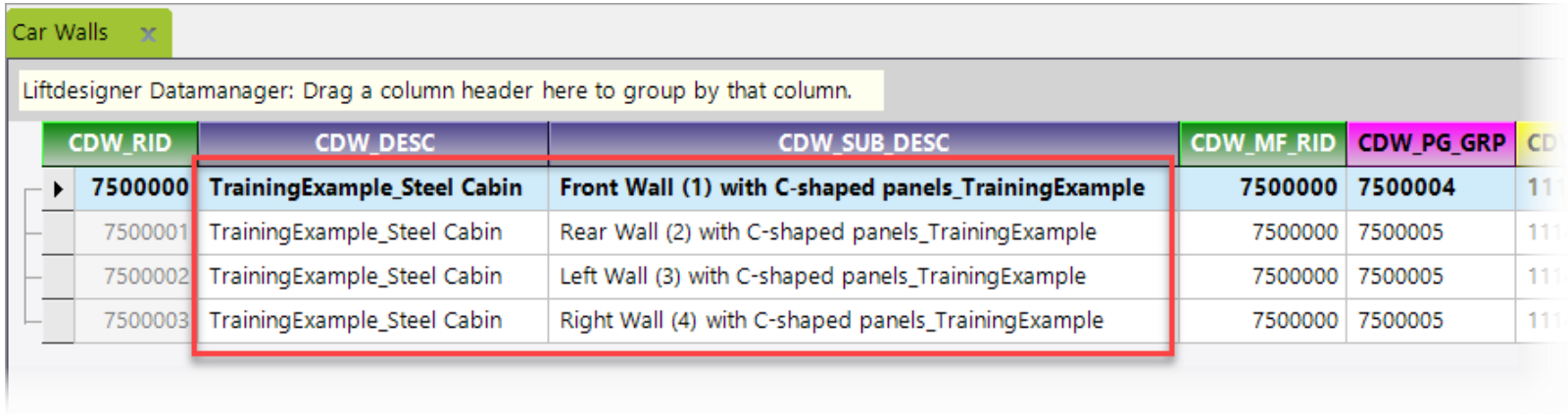


Edit the Meta Data

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

Description: Car Walls

- Add a new specific description for the new copied BIM Component

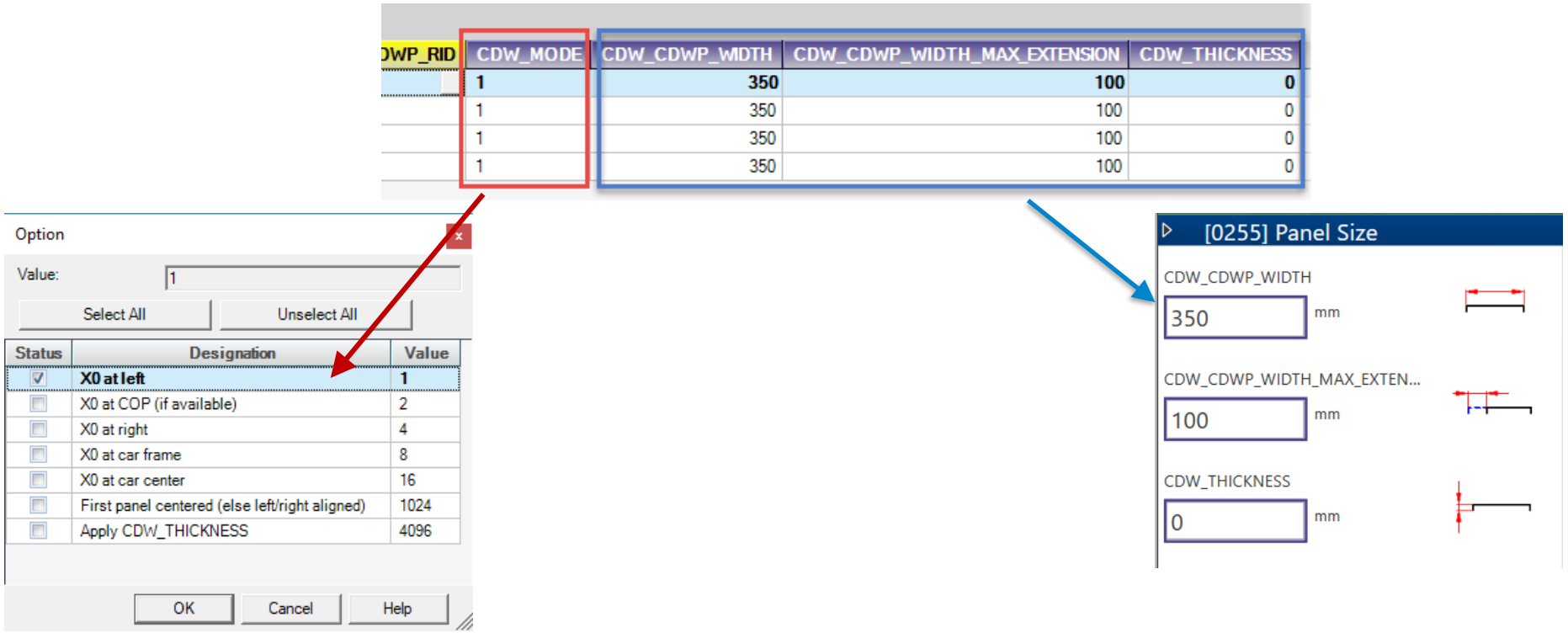


Edit the Meta Data

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

Parameters and Values: Car Walls

- Define size and arrangement

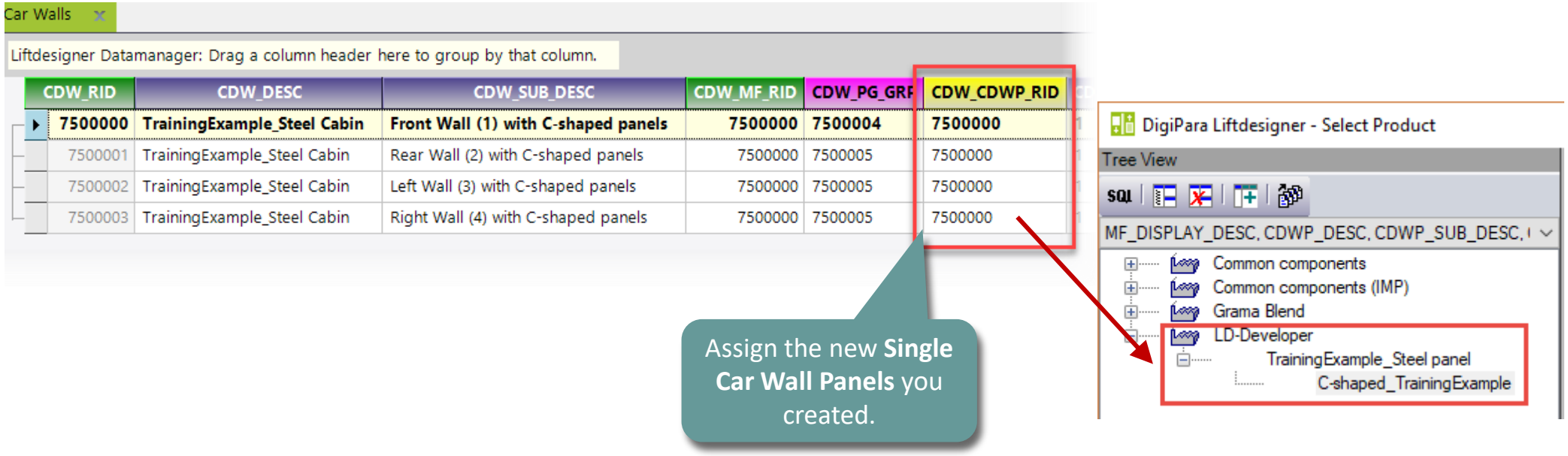


Determine related BIM Components

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

Related BIM Components: Car Walls

- Assign the created **Single Car Wall Panels** to the **Car Walls**

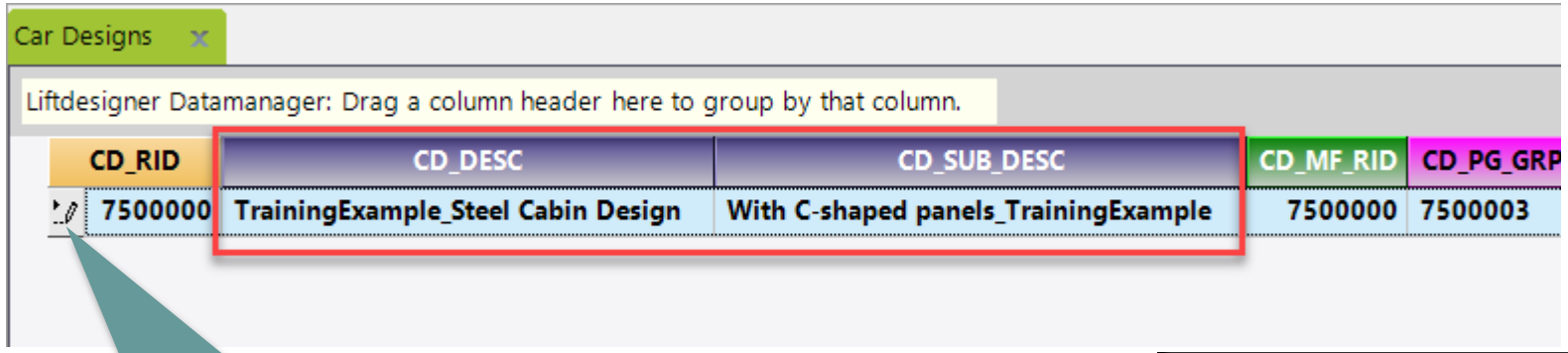


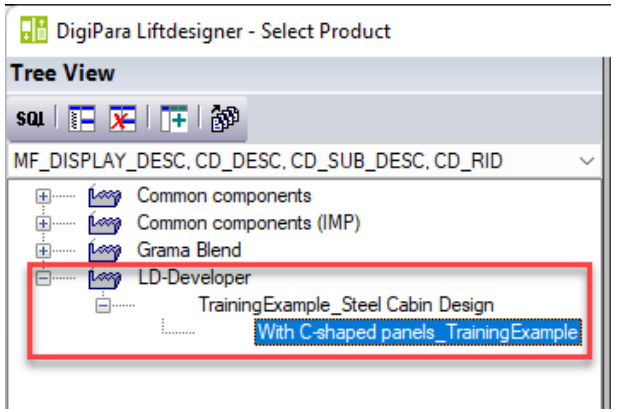
Determine related BIM Components

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

Description: Car Design

- Add a new specific description for the new copied BIM Component



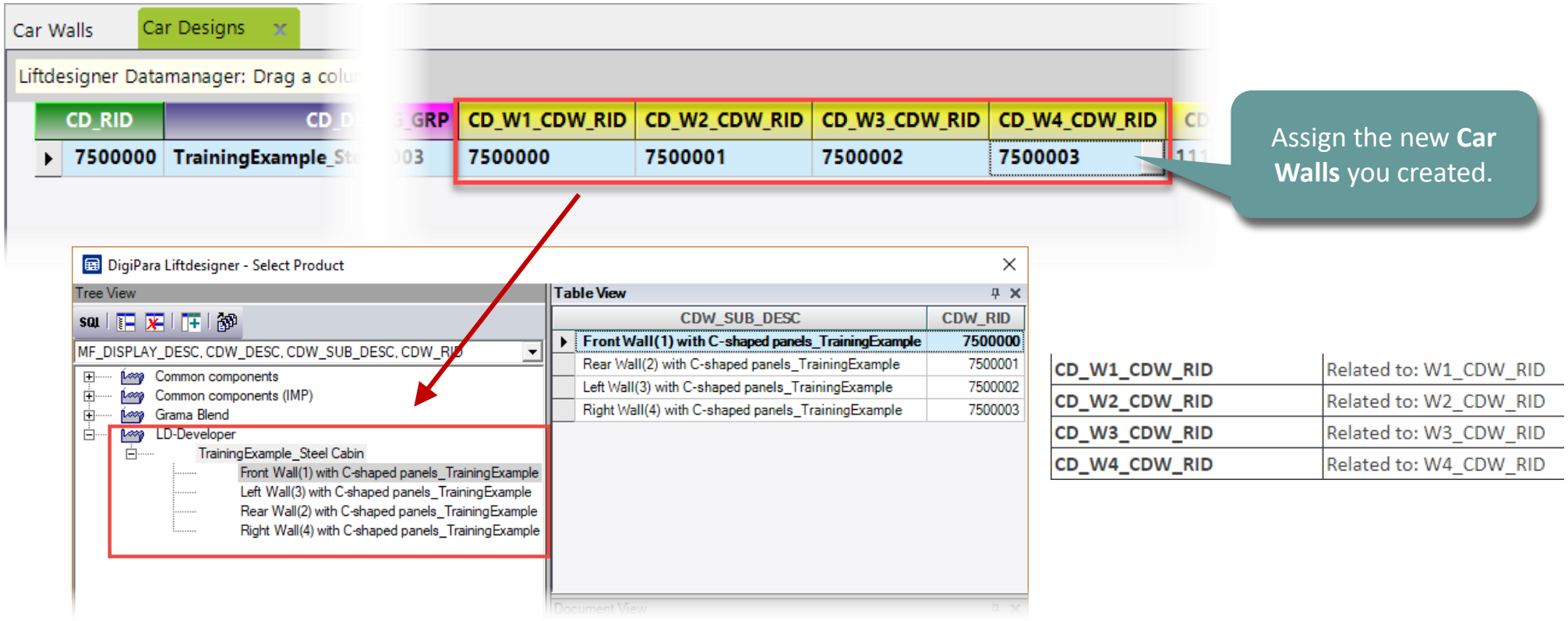


Determine related BIM Components

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

Related BIM Components: Car Design

- Assign the created **Car Walls** to the **Car Design**

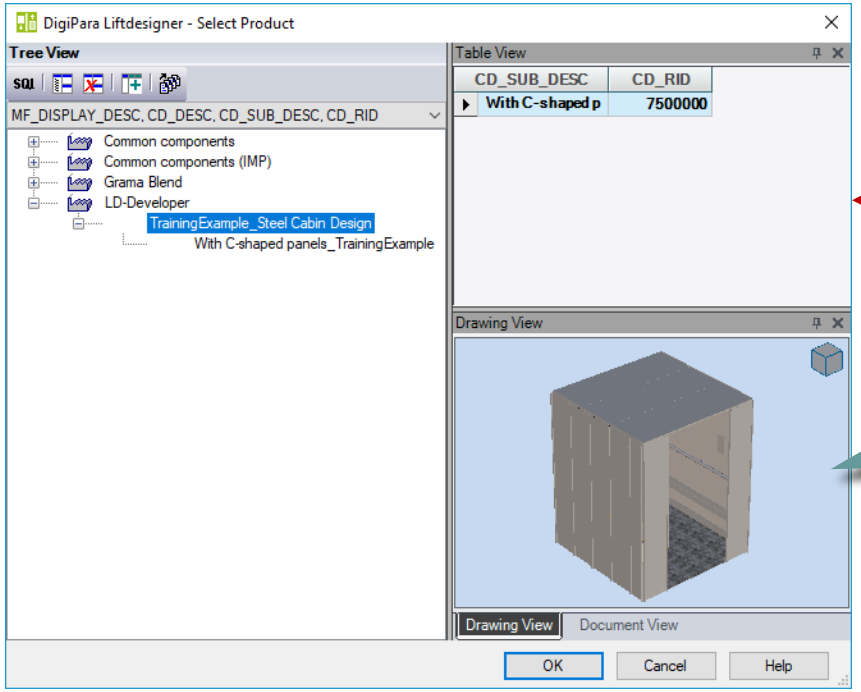


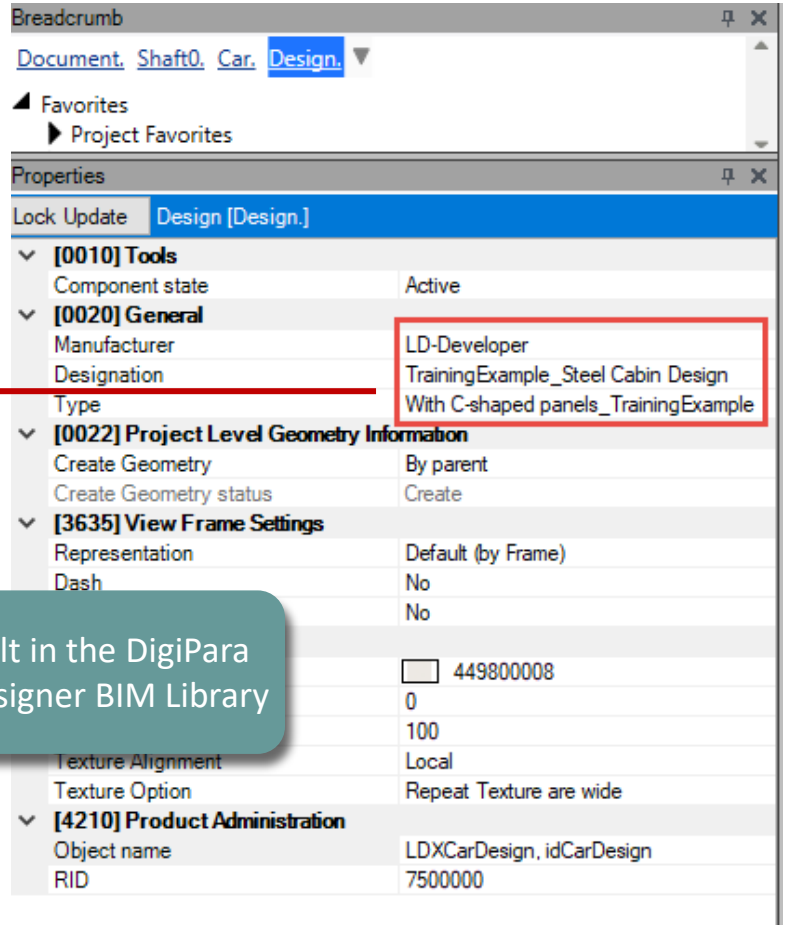
CD_W1_CDW_RID	Related to: W1_CDW_RID
CD_W2_CDW_RID	Related to: W2_CDW_RID
CD_W3_CDW_RID	Related to: W3_CDW_RID
CD_W4_CDW_RID	Related to: W4_CDW_RID

Load your edited BIM Component

PL9.3 PRODUCT LOADING: CABIN DESIGN WALLS

- … in DigiPara Liftdesigner



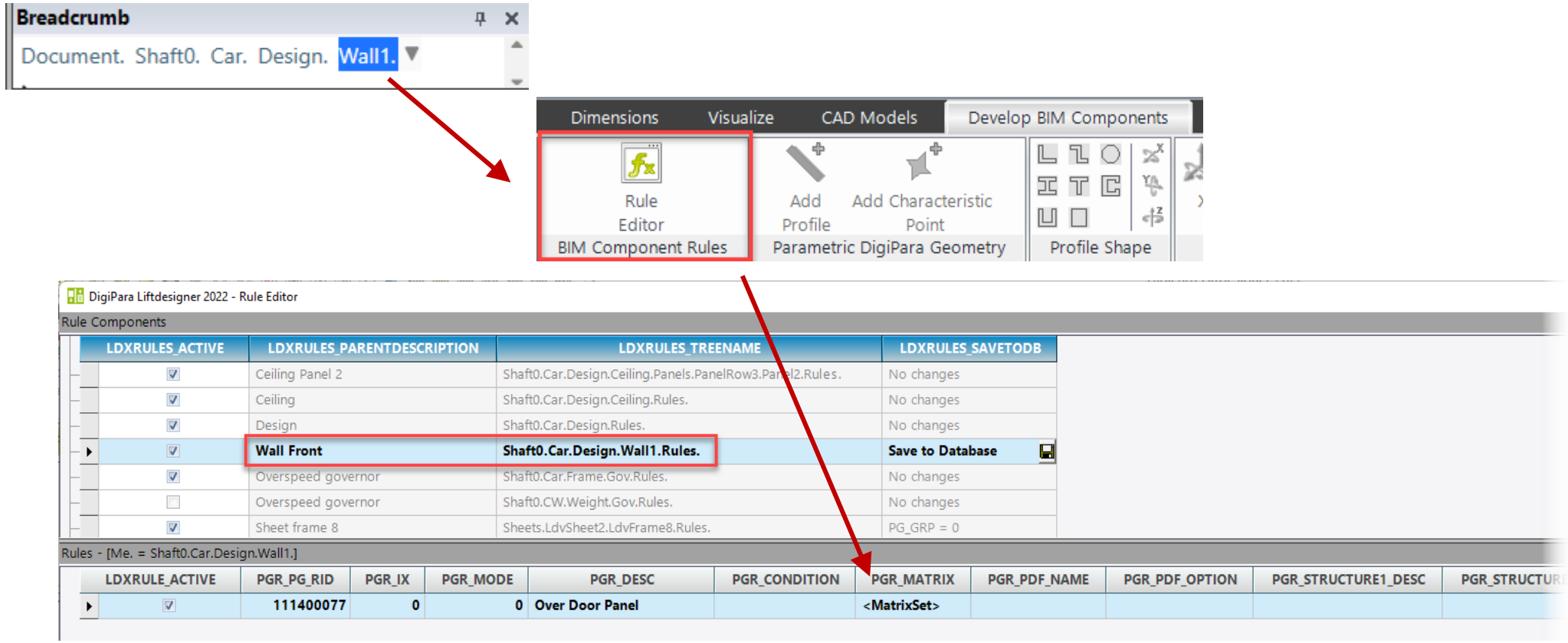


Result in the DigiPara Liftdesigner BIM Library

Rule Editor: Wall Front

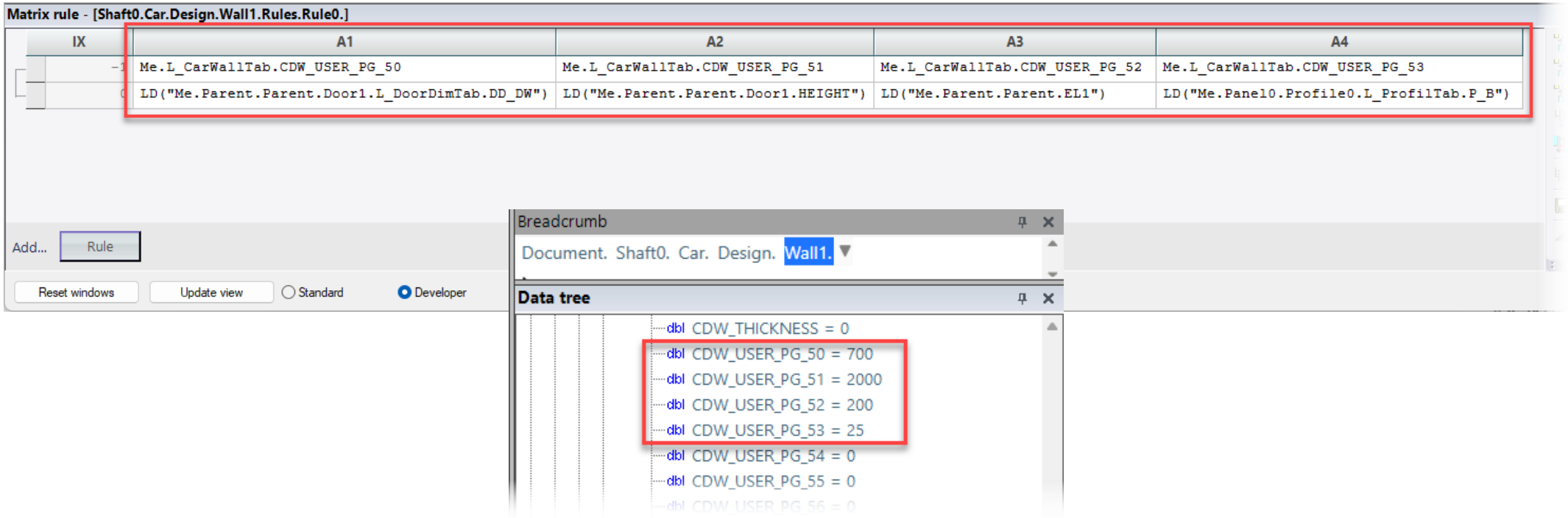
Special Assignment

Rule Editor: Wall Front



Rule Editor: Wall Front

- Assignment

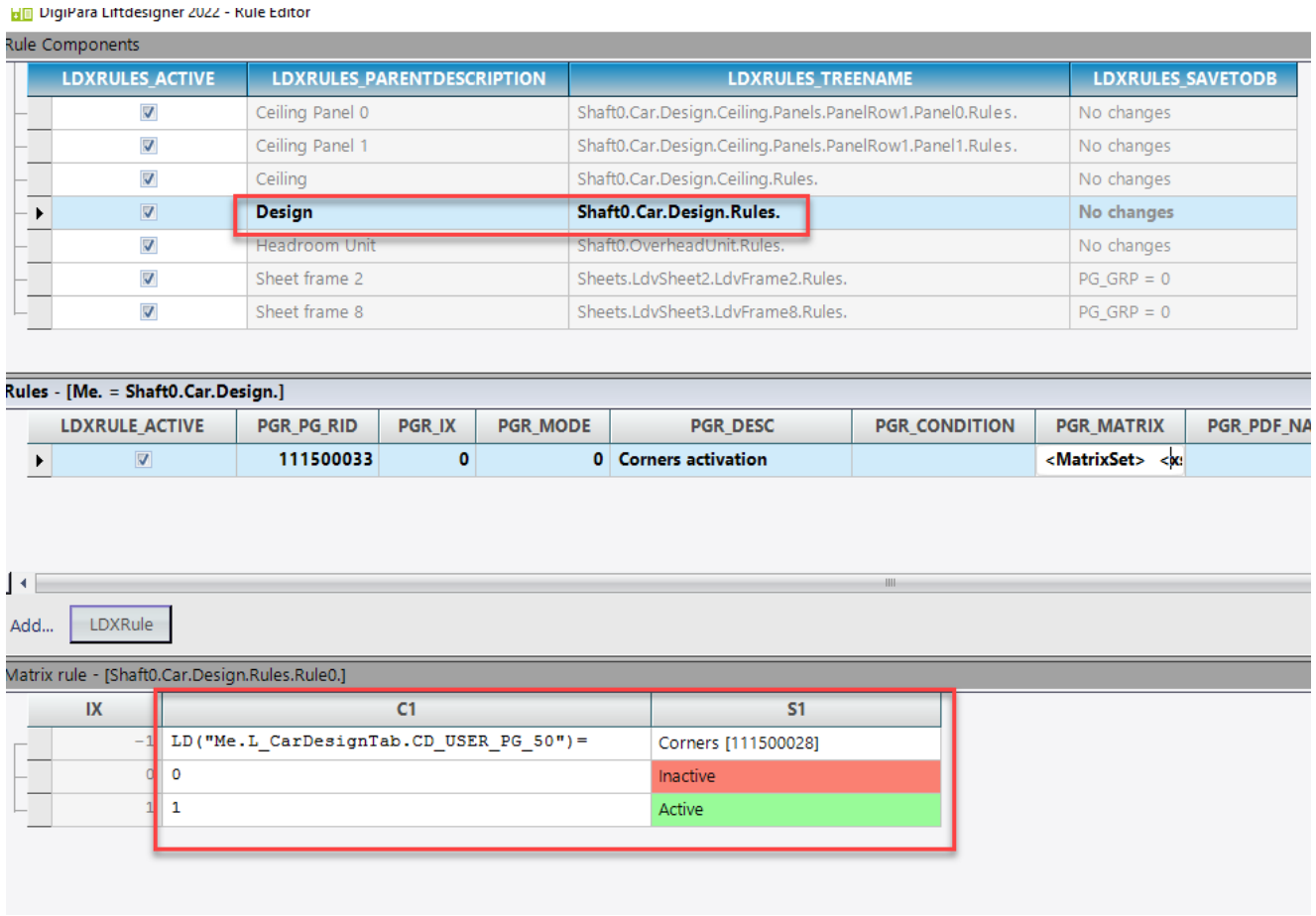


Rule Editor: Cabin Design

Special Assignment

Rule Editor: Cabin Design

- Corners



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PL9.4

Product Loading: Cabin Design Floor and Ceiling

Roadmap

Step 4: Car Ceilings

Step 3: Ceiling Panels

Step 2: Ceiling Panel Rows

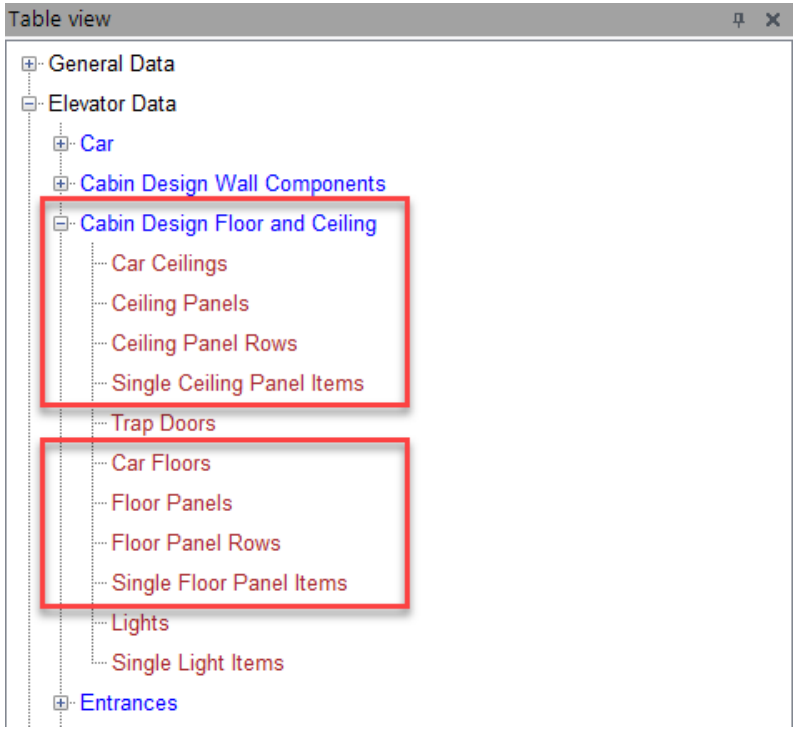
Step 1: Single Ceiling Panel Items

Step 4: Car Floors

Step 3: Floor Panels

Step 2: Floor Panel Rows

Step 1: Single Floor Panel Items



Car Ceilings

Copy a similar BIM Component

Car Ceilings Panel Items & Car Ceiling Panel Rows

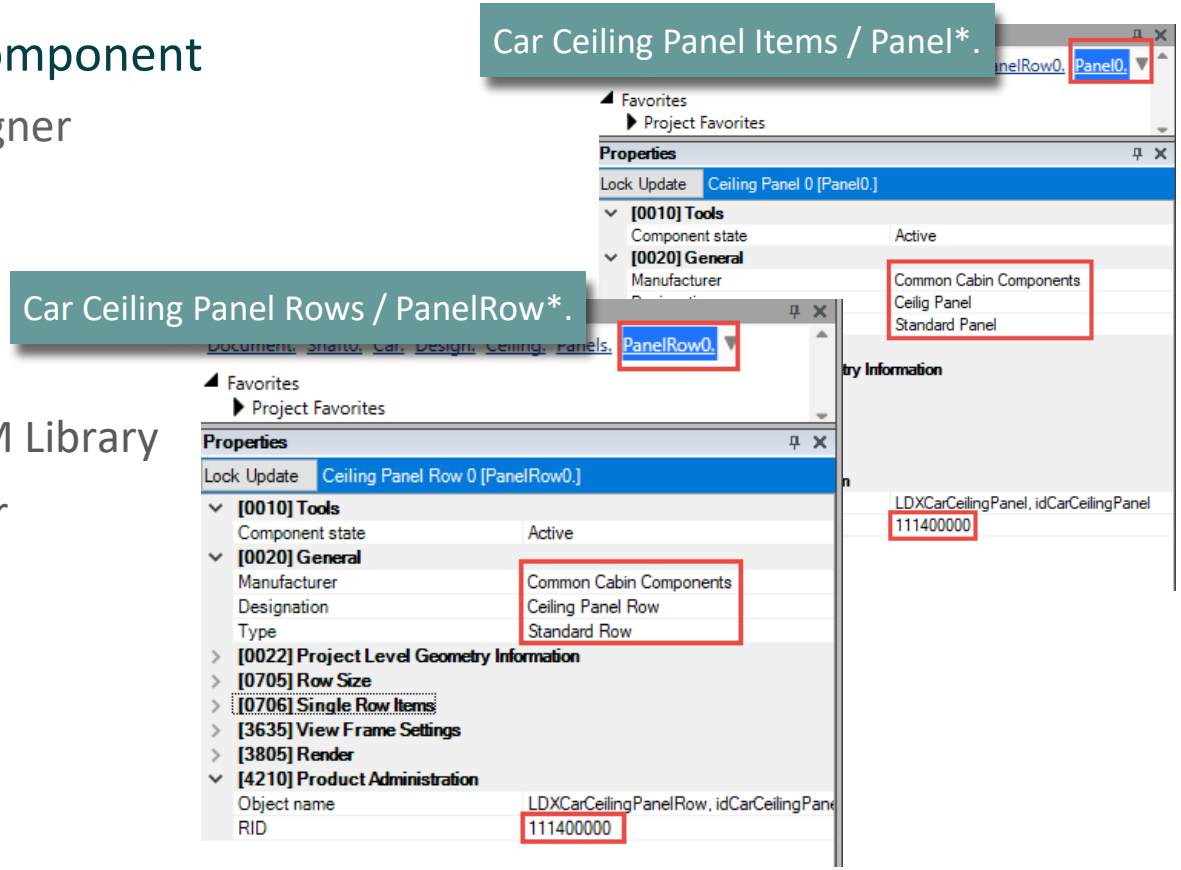
PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

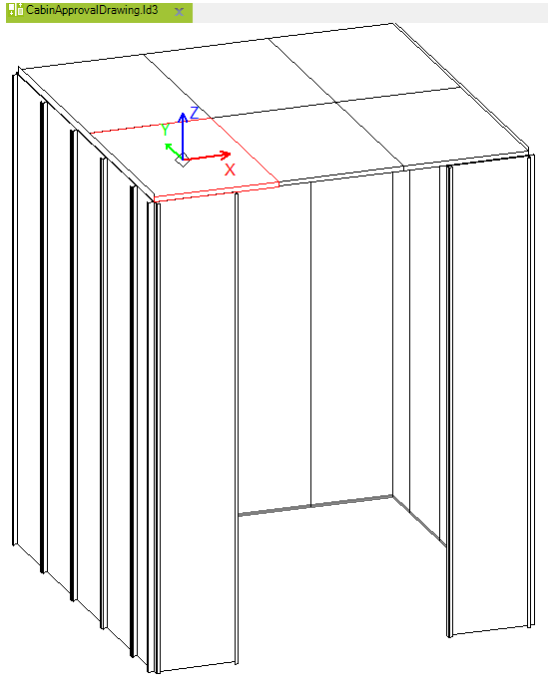
Find a similar BIM Component

- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number





Car Ceilings Panels & Car Ceiling

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

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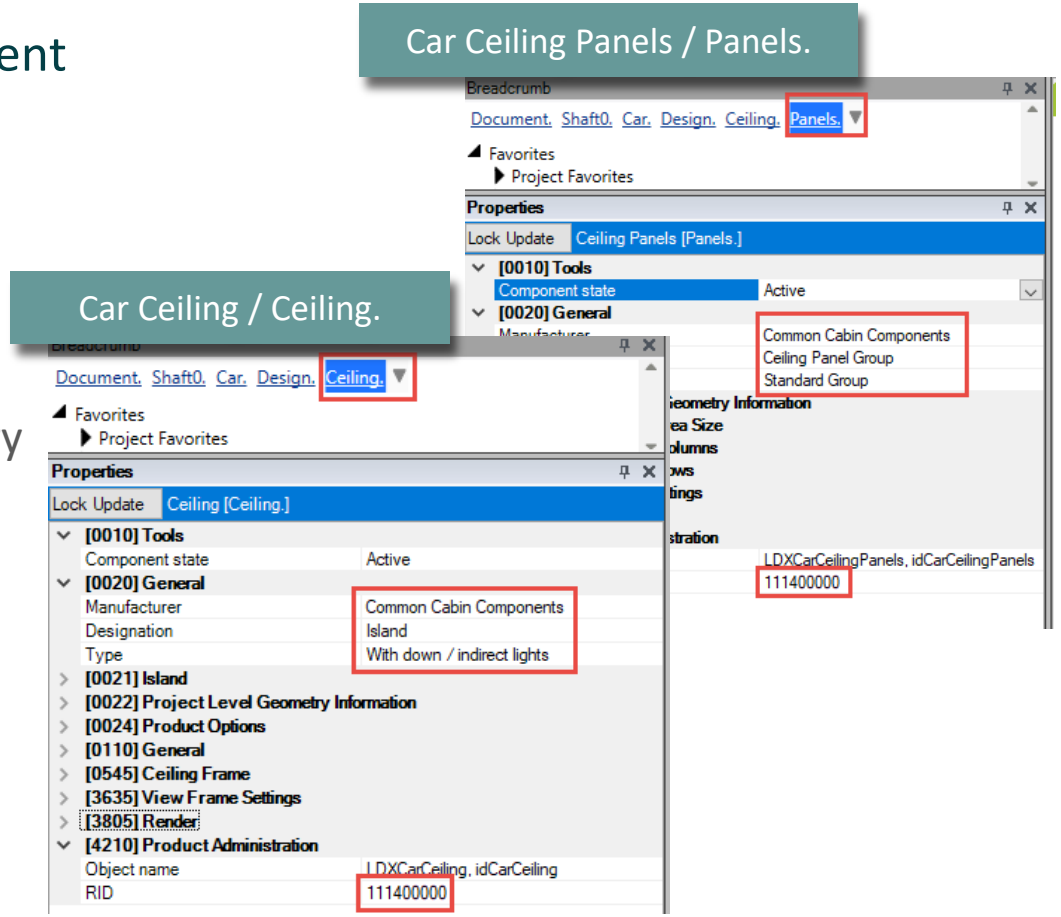
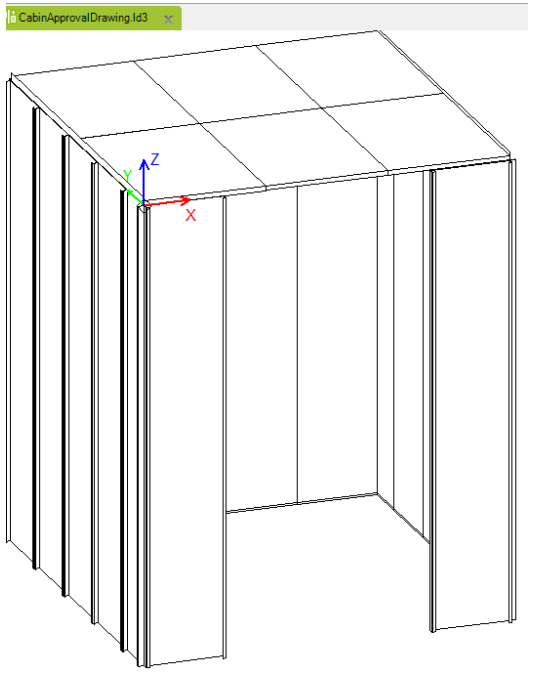
Find a similar BIM Component

- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number



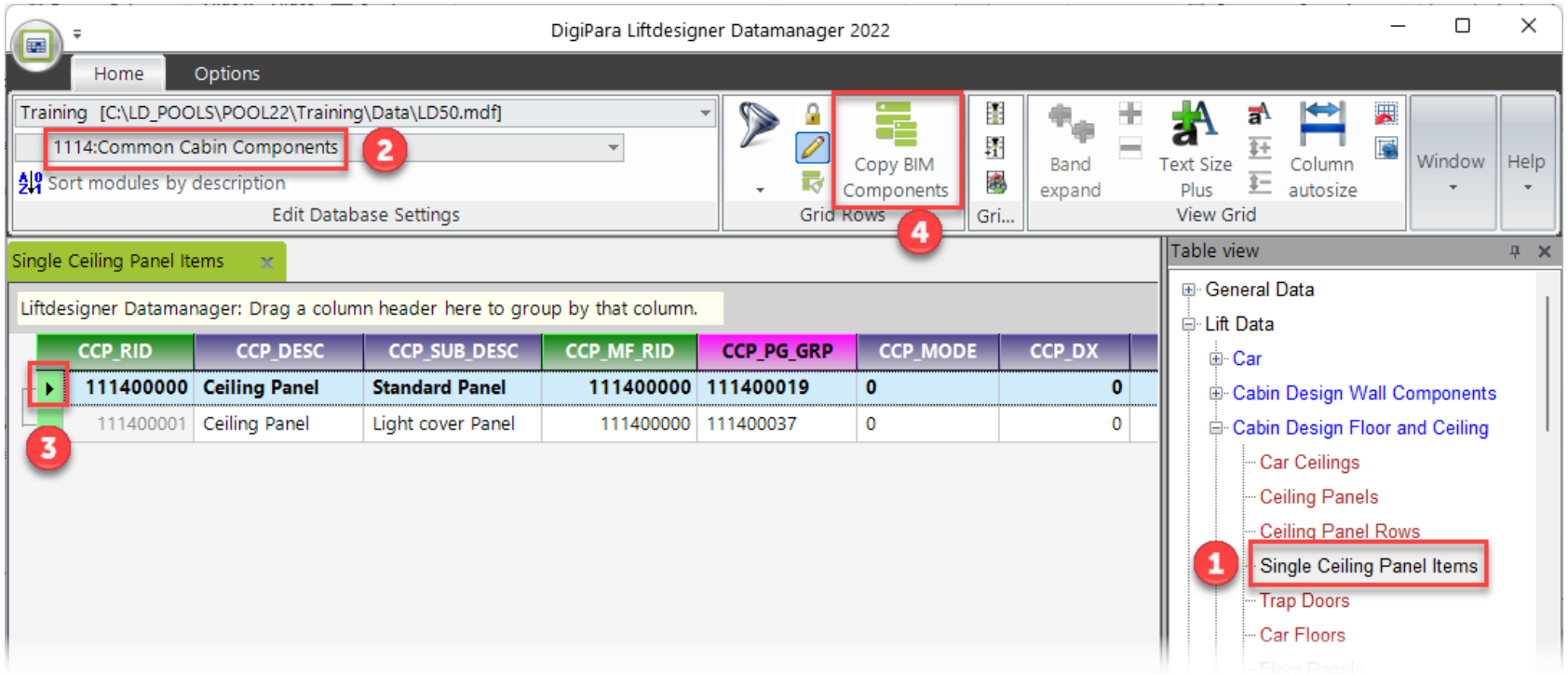


Single Ceiling Panel Items

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Copy a similar Component

- in DigiPara Liftdesigner Datamanager

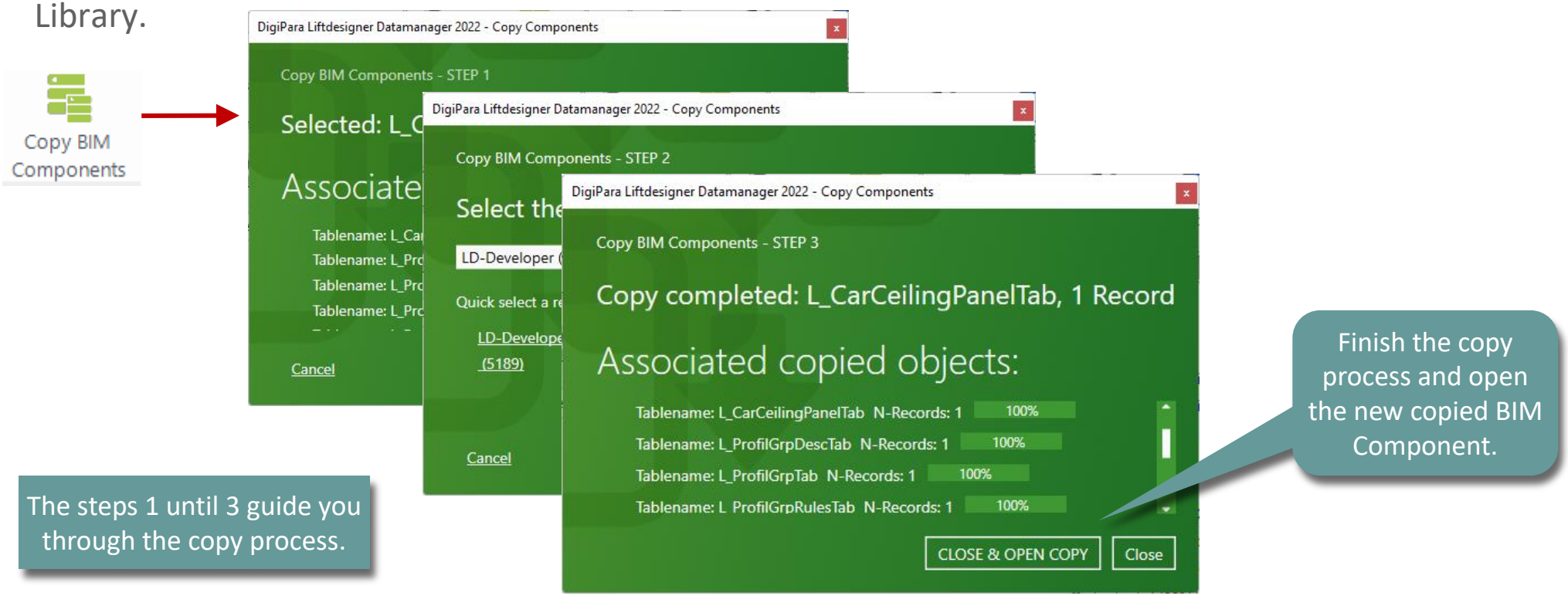


Single Ceiling Panel Items

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Copy a similar Component

- The BIM Component is copied with all parameter and values to a new manufacturer / DigiPara BIM Library.



Car Ceiling Panel Rows, Panels and Ceiling

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

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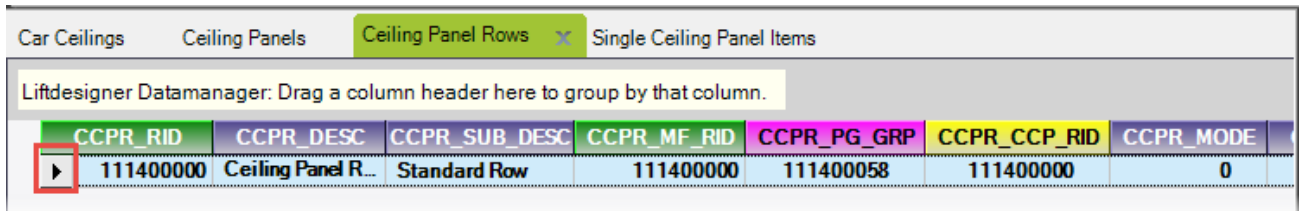
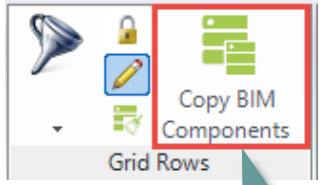
Copy a similar Component

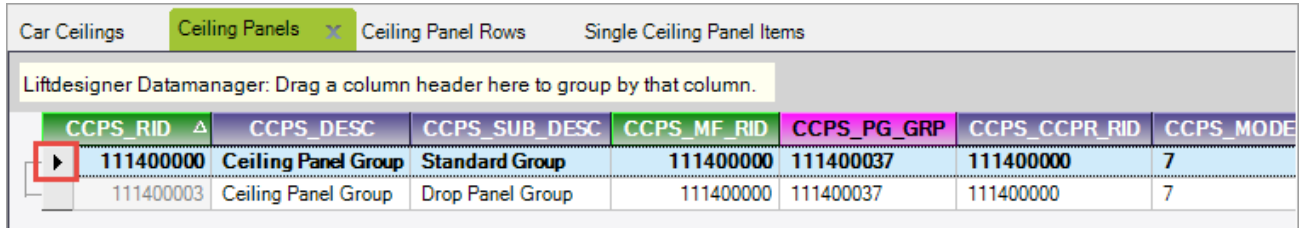
- Ceiling Panel Rows



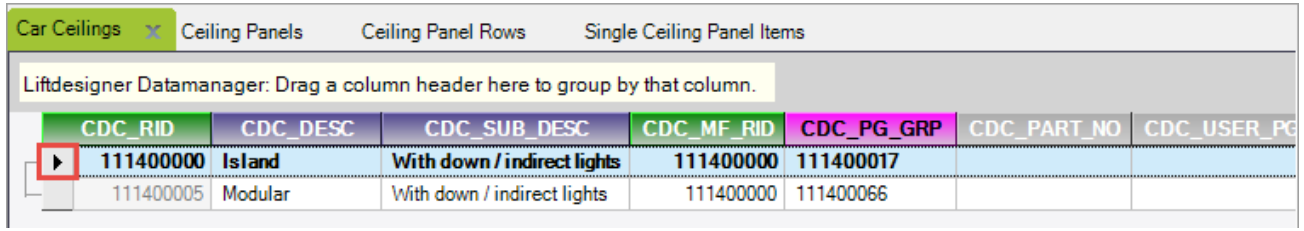


Same **Copy BIM Components** process

- Ceiling Panels



- Car Ceilings



Car Ceilings

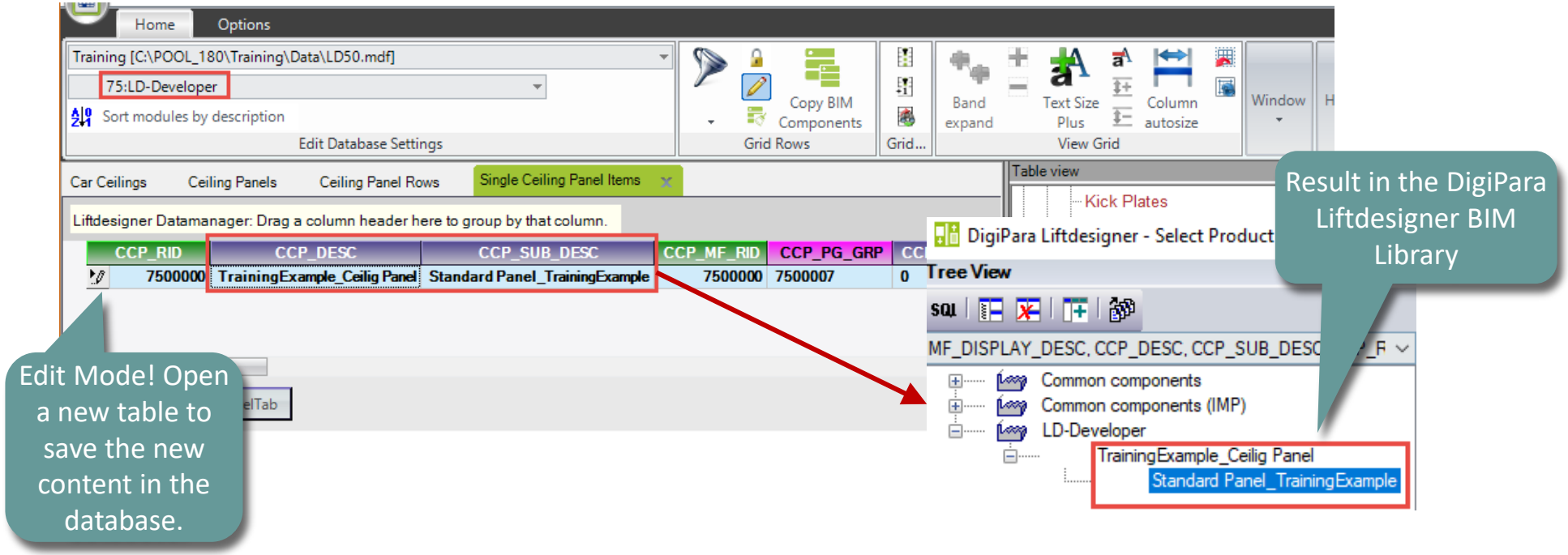
Edit the Meta Data & Determine related BIM Components

Edit the Meta Data

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Description: Single Ceiling Panel Items

- Add a new specific description for the new copied BIM Component

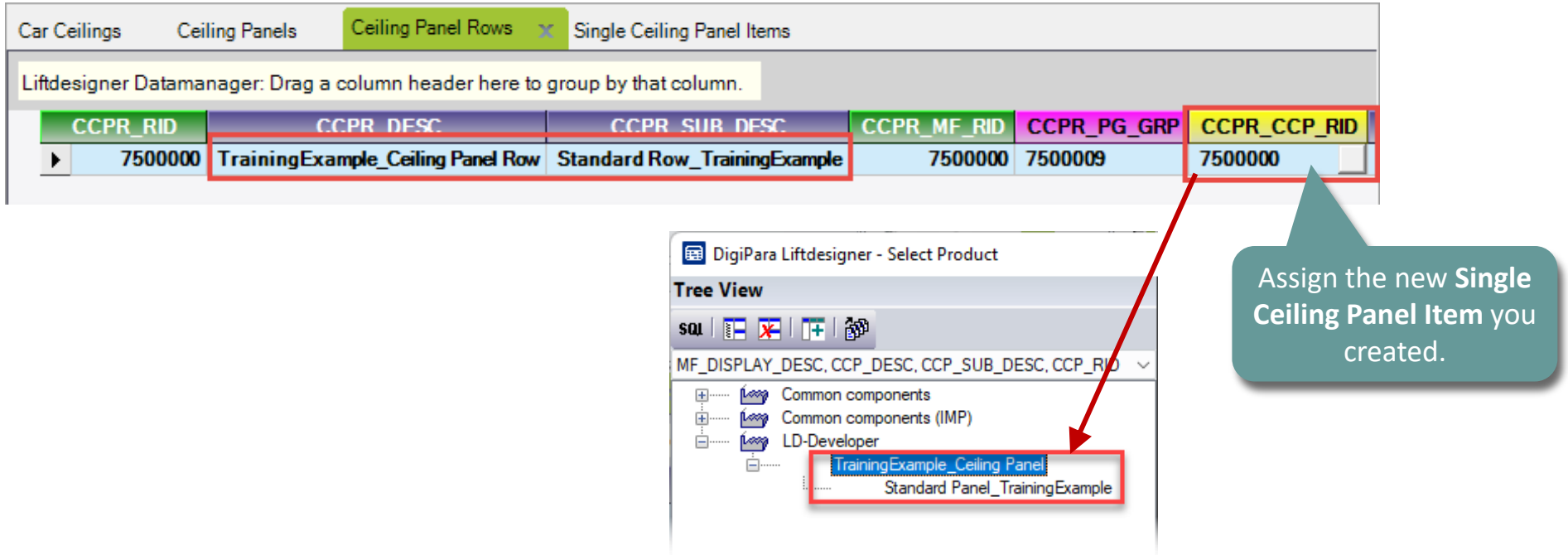


Edit the Meta Data & Determine related BIM Components

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Description & Assignment: Ceiling Panel Rows

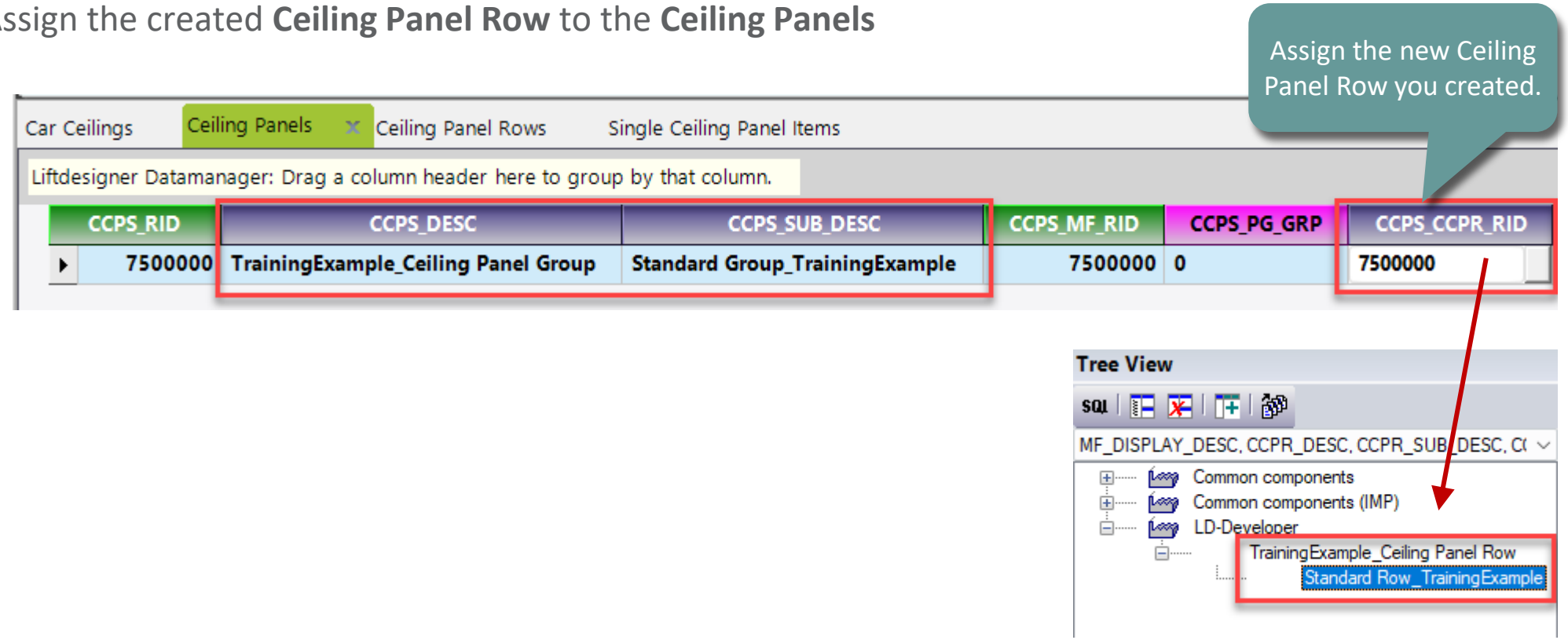
- Assign the created **Single Ceiling Panel Item** to the **Ceiling Panel Row**



Edit the Meta Data & Determine related BIM Components

Description & Assignment: Ceiling Panels

- Assign the created **Ceiling Panel Row** to the **Ceiling Panels**

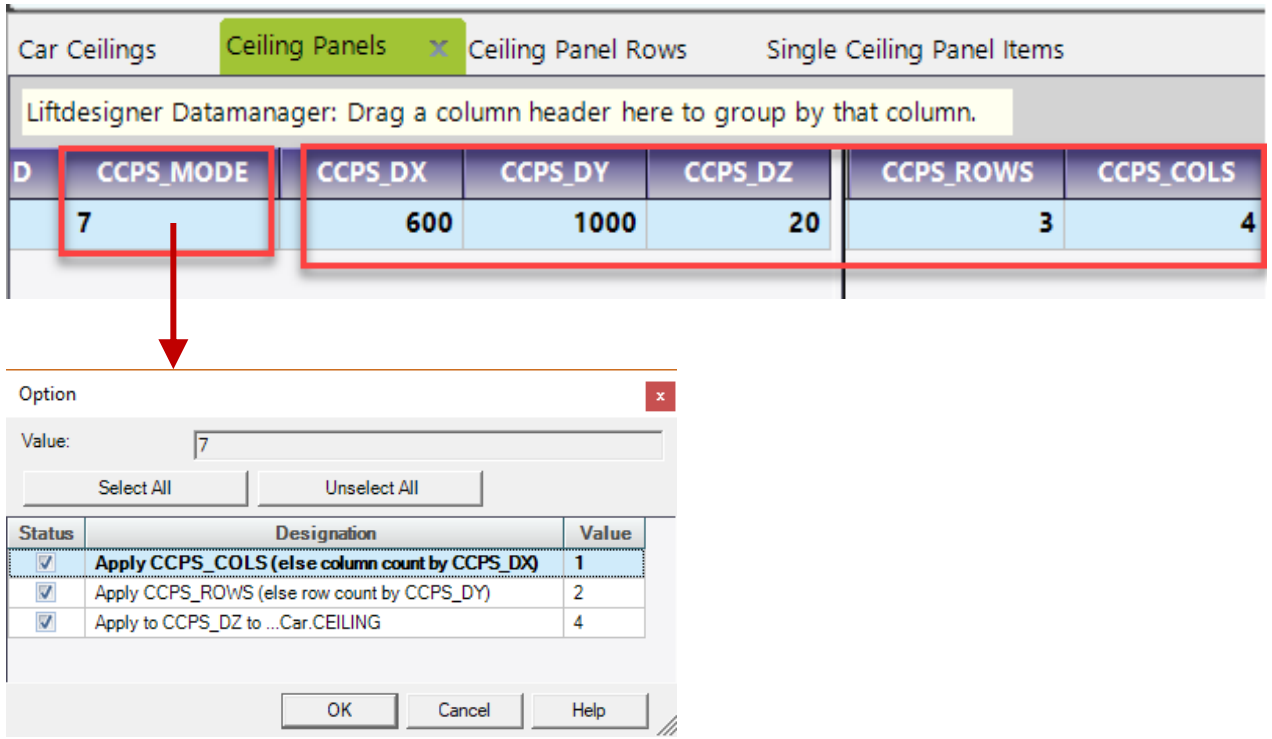


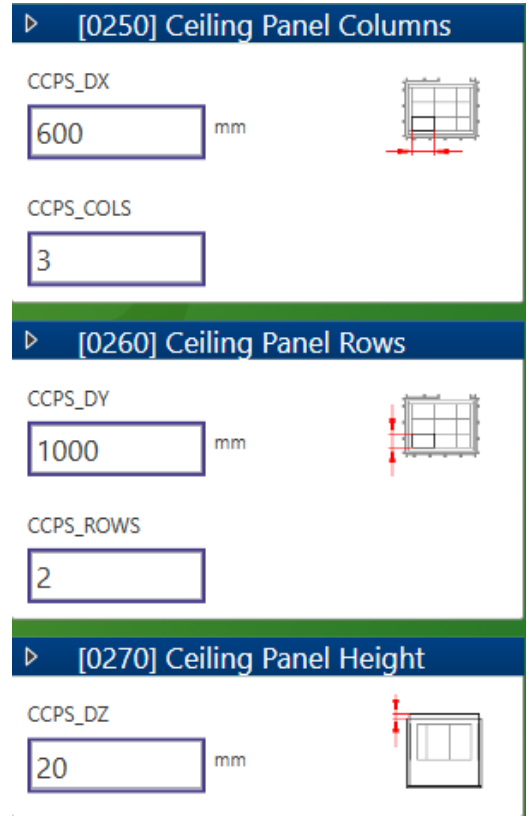
Edit the Meta Data

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Panel Settings: Ceiling Panels

- Define Panel Columns and Rows



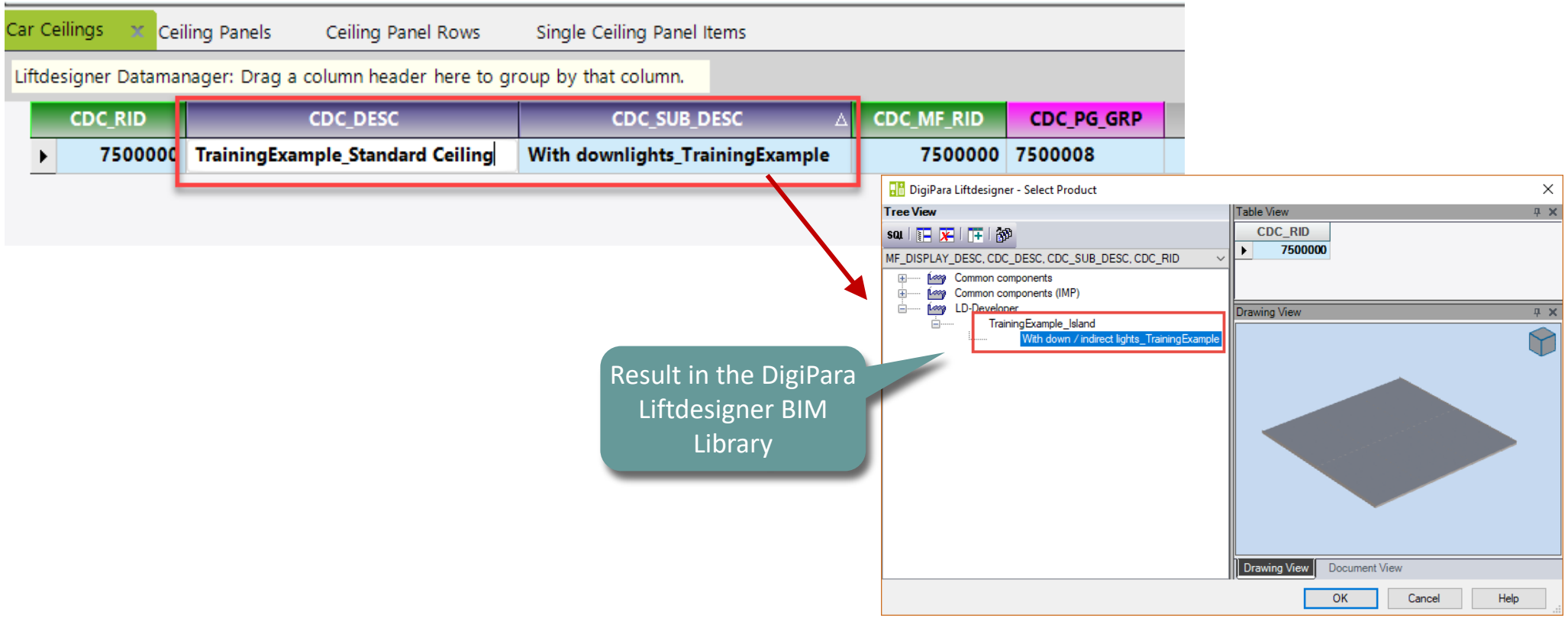


Edit the Meta Data

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Description: Car Ceilings

- Add a new specific description for the new copied BIM Component

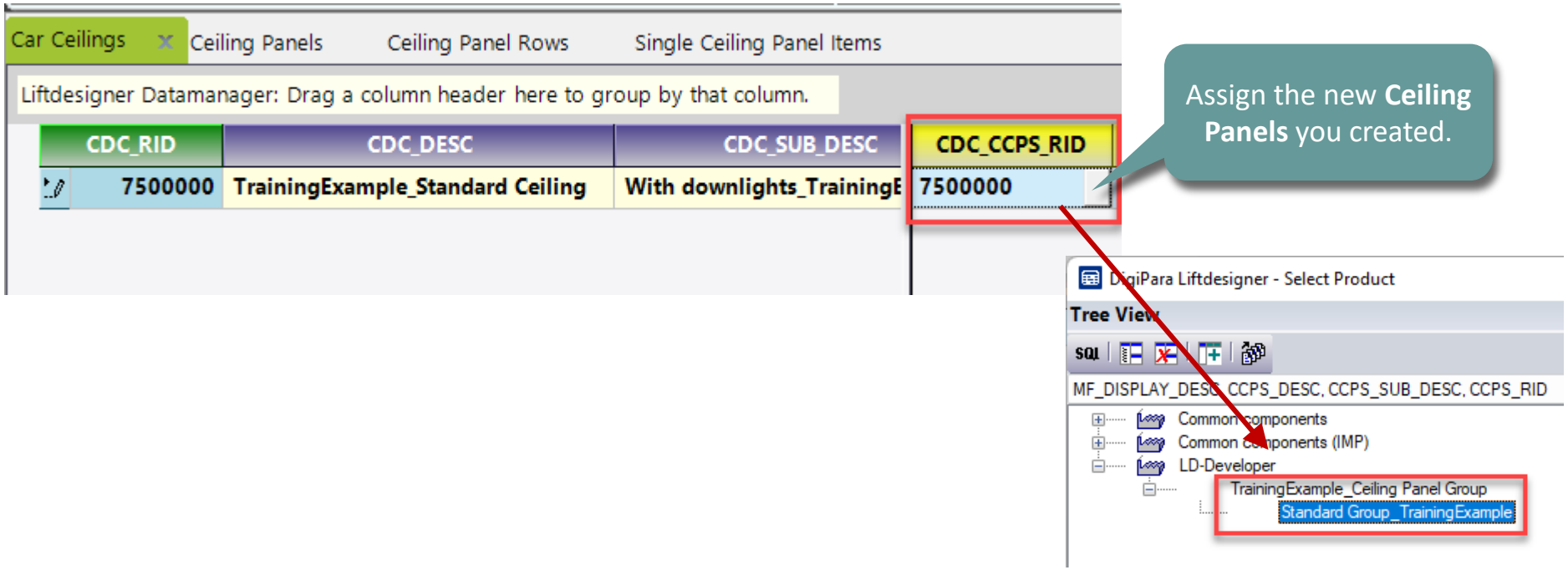


Determine related BIM Components

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Related BIM Components: Car Ceilings

- Assign the created **Ceiling Panels** to the **Car Ceilings**

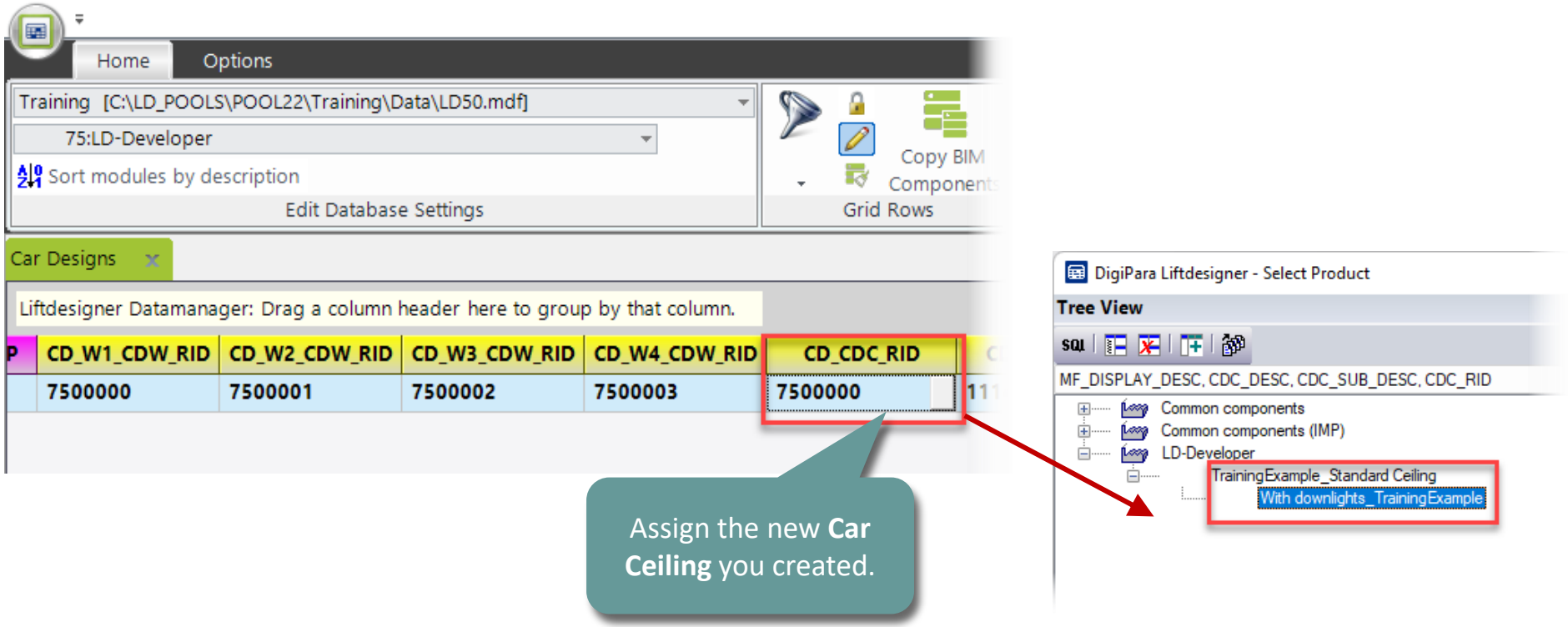


Determine related BIM Components

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Related BIM Components: Car Designs

- Assign the created **Car Ceilings** to the **Car Designs**

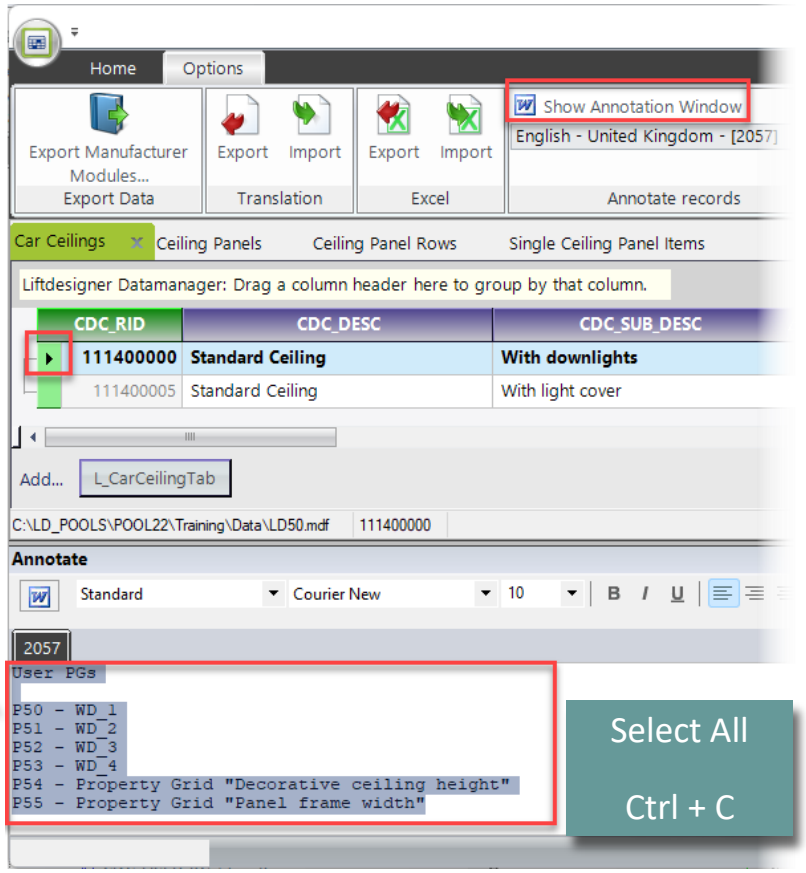


Rule Editor: Cabin Ceiling

Annotate & Special Assignment

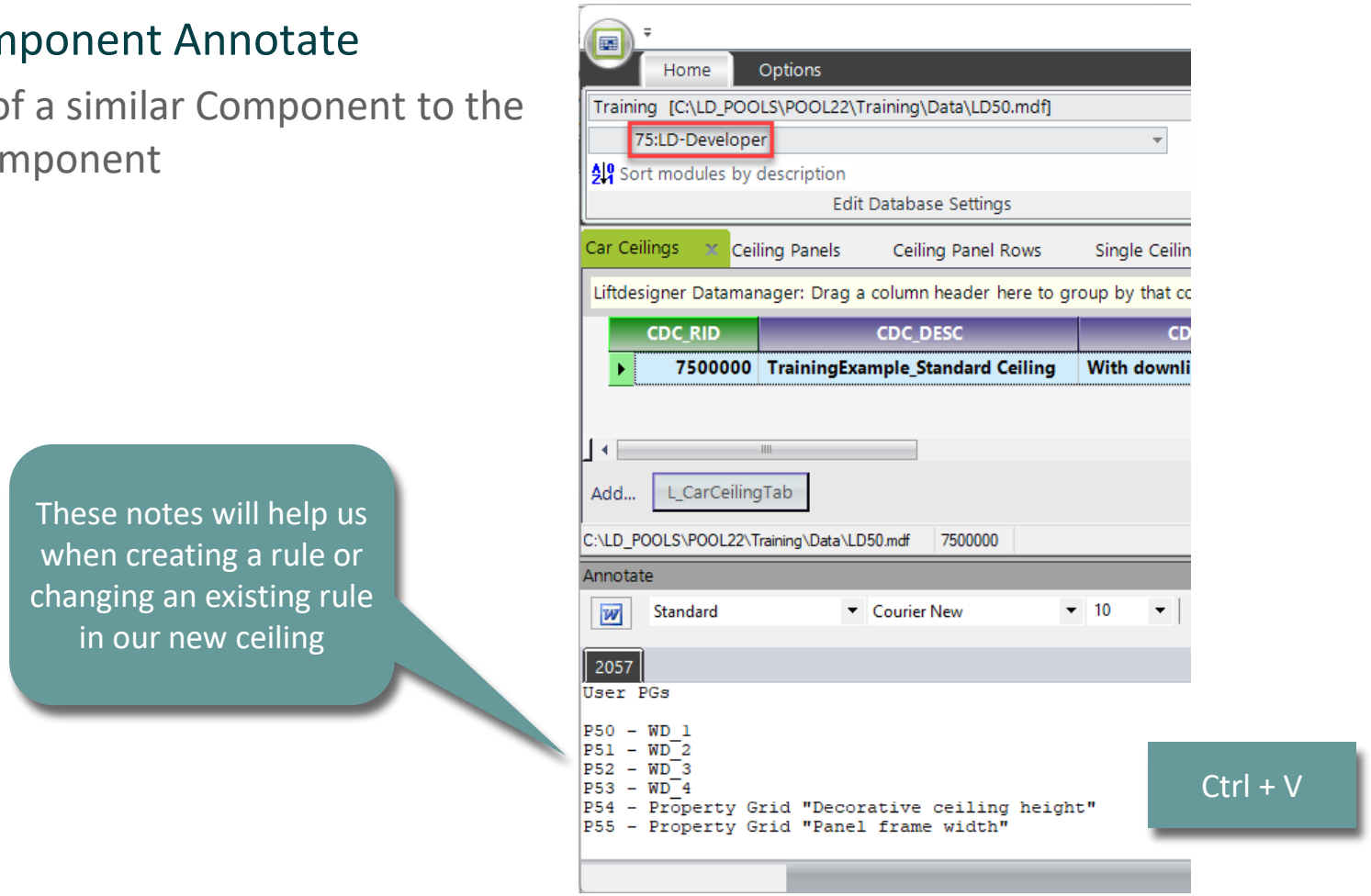
Copy a similar Component Annotate

- Copy the notes of a similar Component to the newly copied product



Copy a similar Component Annotate

- Copy the notes of a similar Component to the newly copied component



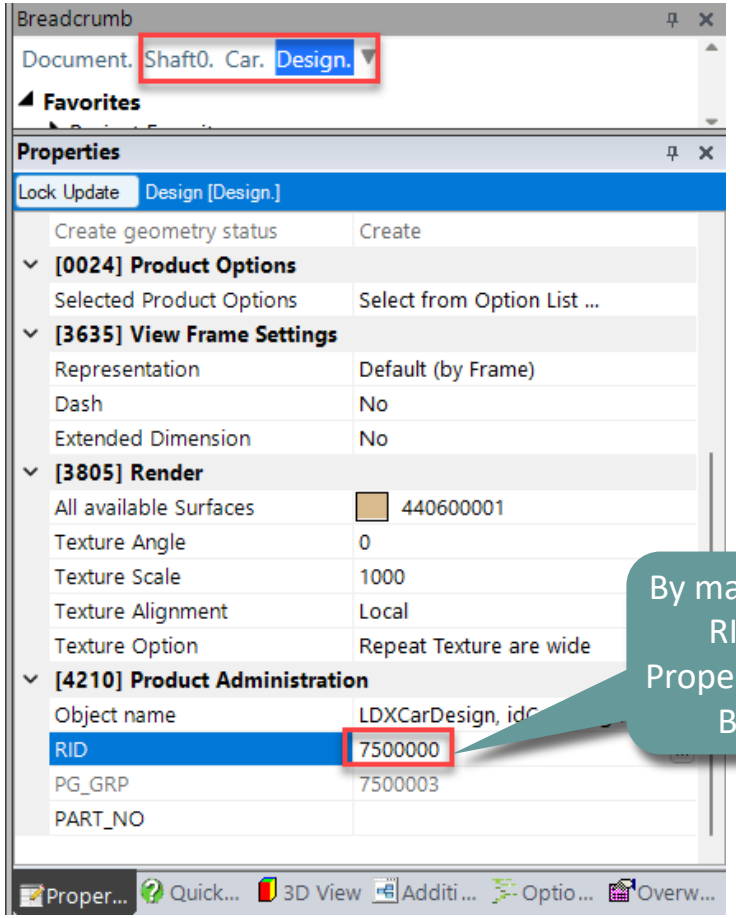
Load your edited BIM Component

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Reload the modified BIM Component

- in DigiPara Liftdesigner

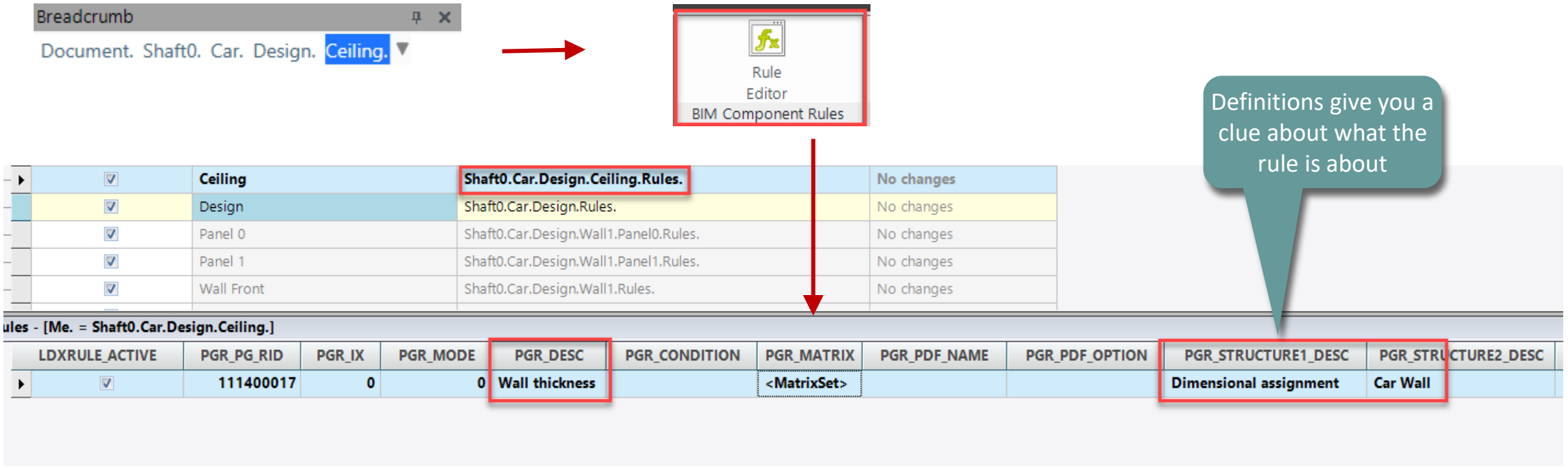
Reload your BIM Component to accept edited values from the DigiPara Liftdesigner Datamanager.



By manually swapping the RID number in the Properties Window for the BIM Component.

Rule Editor

- Assignment



Options & Rules

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

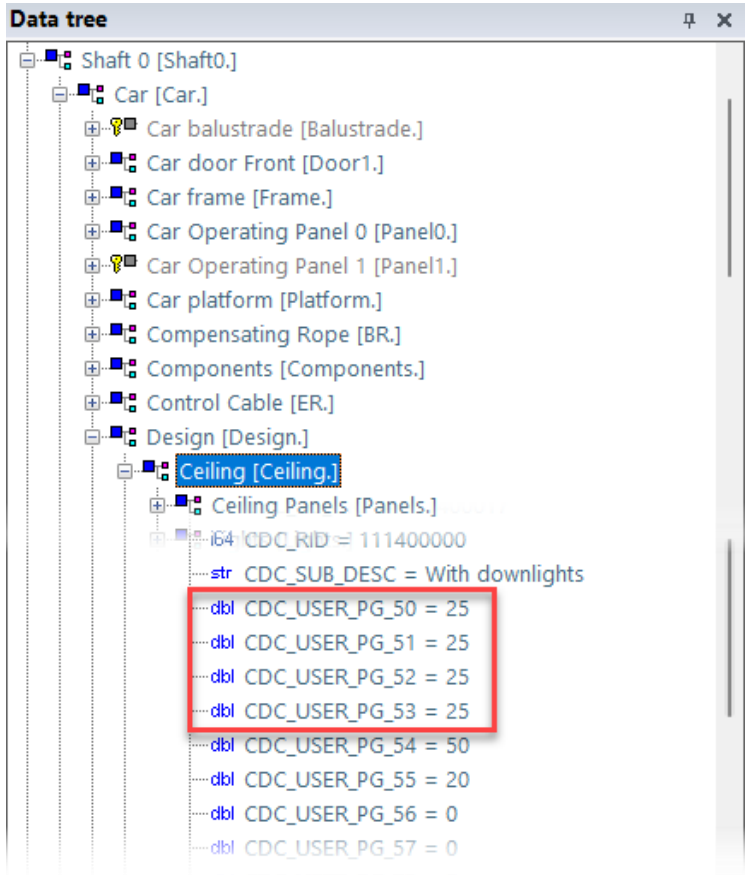
Rule Editor

- Assignment

atrix rule - [Shaft0.Car.Design.Ceiling.Rules.Rule0.]

IX	A1	A2
-1	Me.L_CarCeilingTab.CDC_USER_PG_50	Me.L_CarCeilingTab.CDC_USER_PG_51
0	LD("Me.Parent.Parent.WD1")	LD("Me.Parent.Parent.WD2")

A3	A4
Me.L_CarCeilingTab.CDC_USER_PG_52	Me.L_CarCeilingTab.CDC_USER_PG_53
LD("Me.Parent.Parent.WD3")	LD("Me.Parent.Parent.WD4")

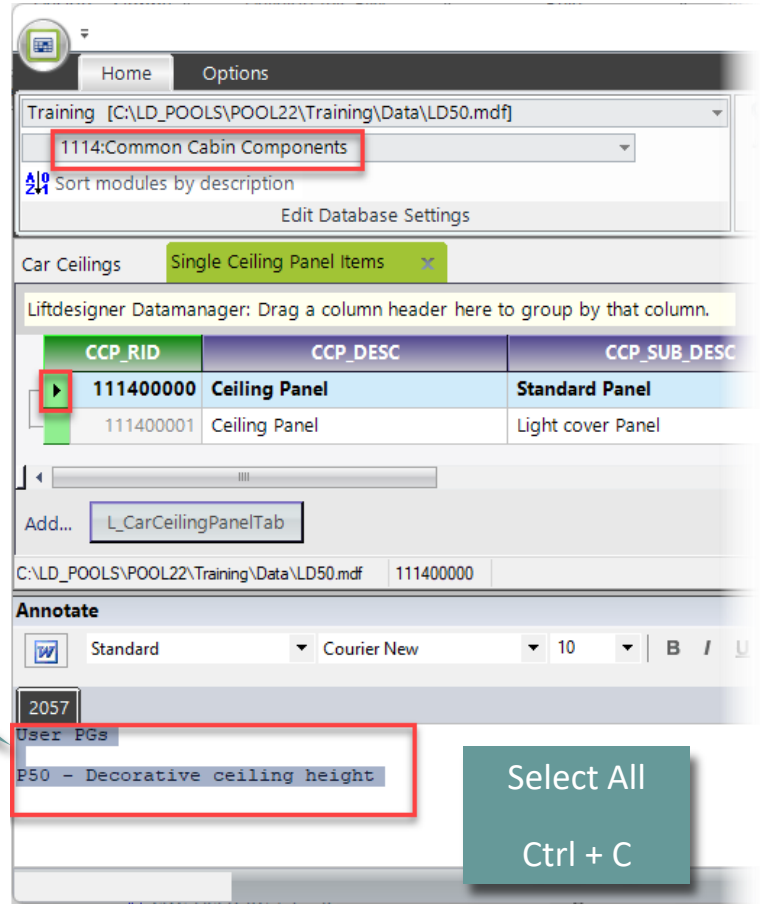


Rule Editor: Single Ceiling Panel Items

Annotate & Special Assignment

Copy a similar Component Annotate

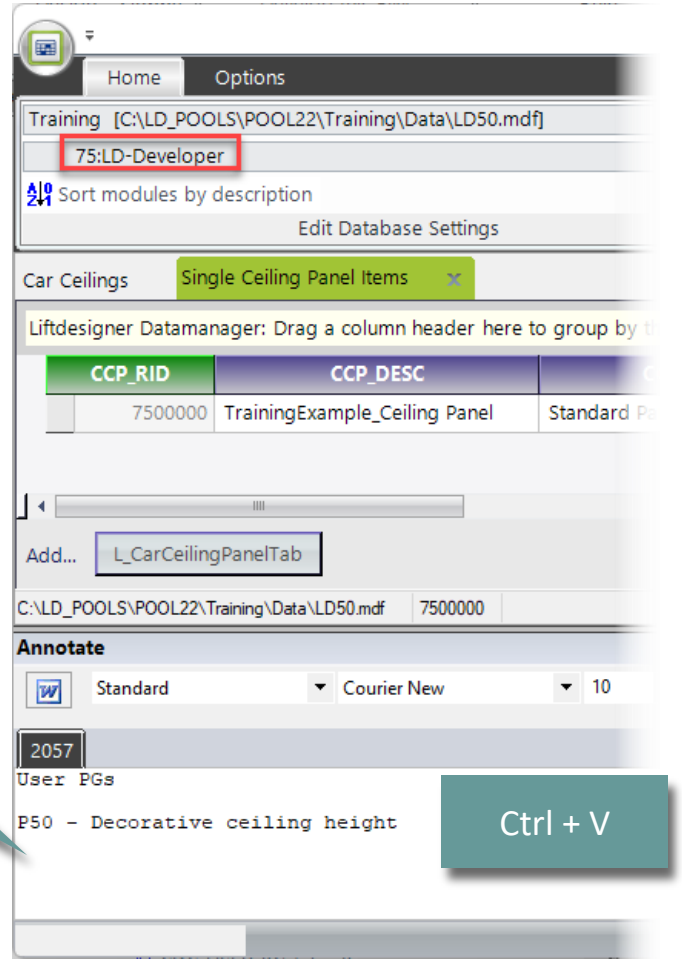
- Copy the notes of a similar Component to the newly copied product



These notes will help us when creating a rule or changing an existing rule in our new ceiling

Copy a similar Component Annotate

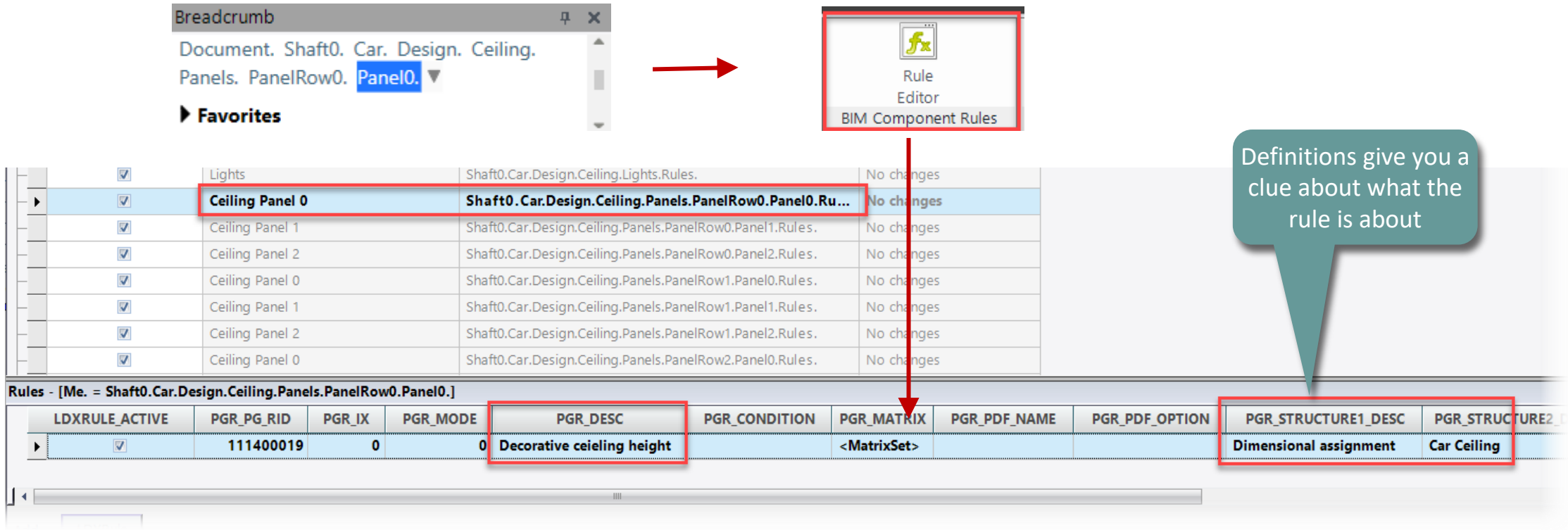
- Copy the notes of a similar Component to the newly copied component



These notes will help us when creating a rule or changing an existing rule in our new ceiling

Rule Editor

- Assignment

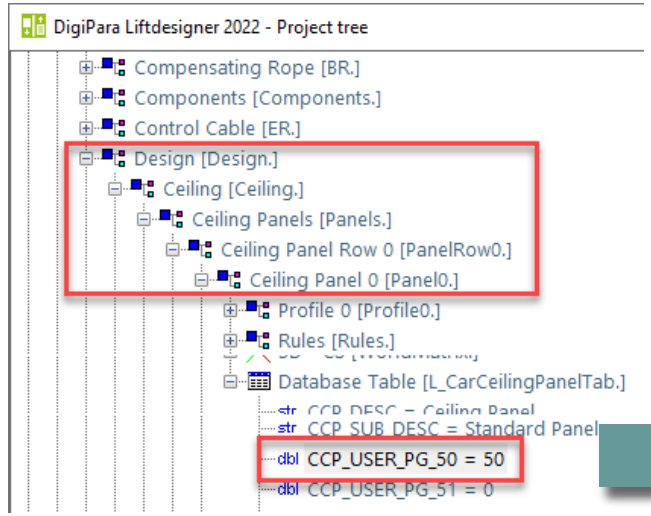


Rule Editor

- Assignment

Matrix rule - [Shaft0.Car.Design.Ceiling.Panels.PanelRow0.Panel0.Rules.Rule0.]

IX	A1
-1	Me.L_CarCeilingPanelTab.CCP_USER_PG_50
0	LD("Me.Parent.Parent.Parent.L_CarCeilingTab.CDC_USER_PG_54")



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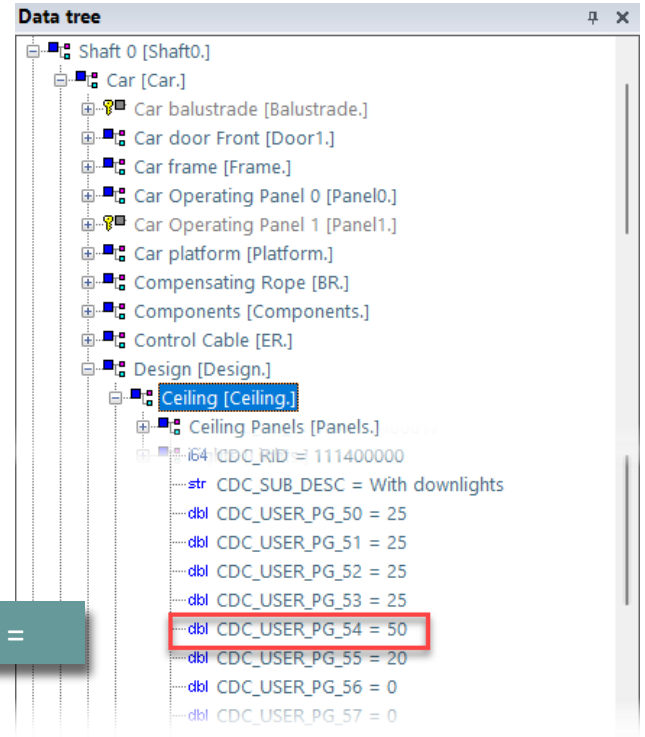


Car Floors

Copy a similar BIM Component

Car Floors

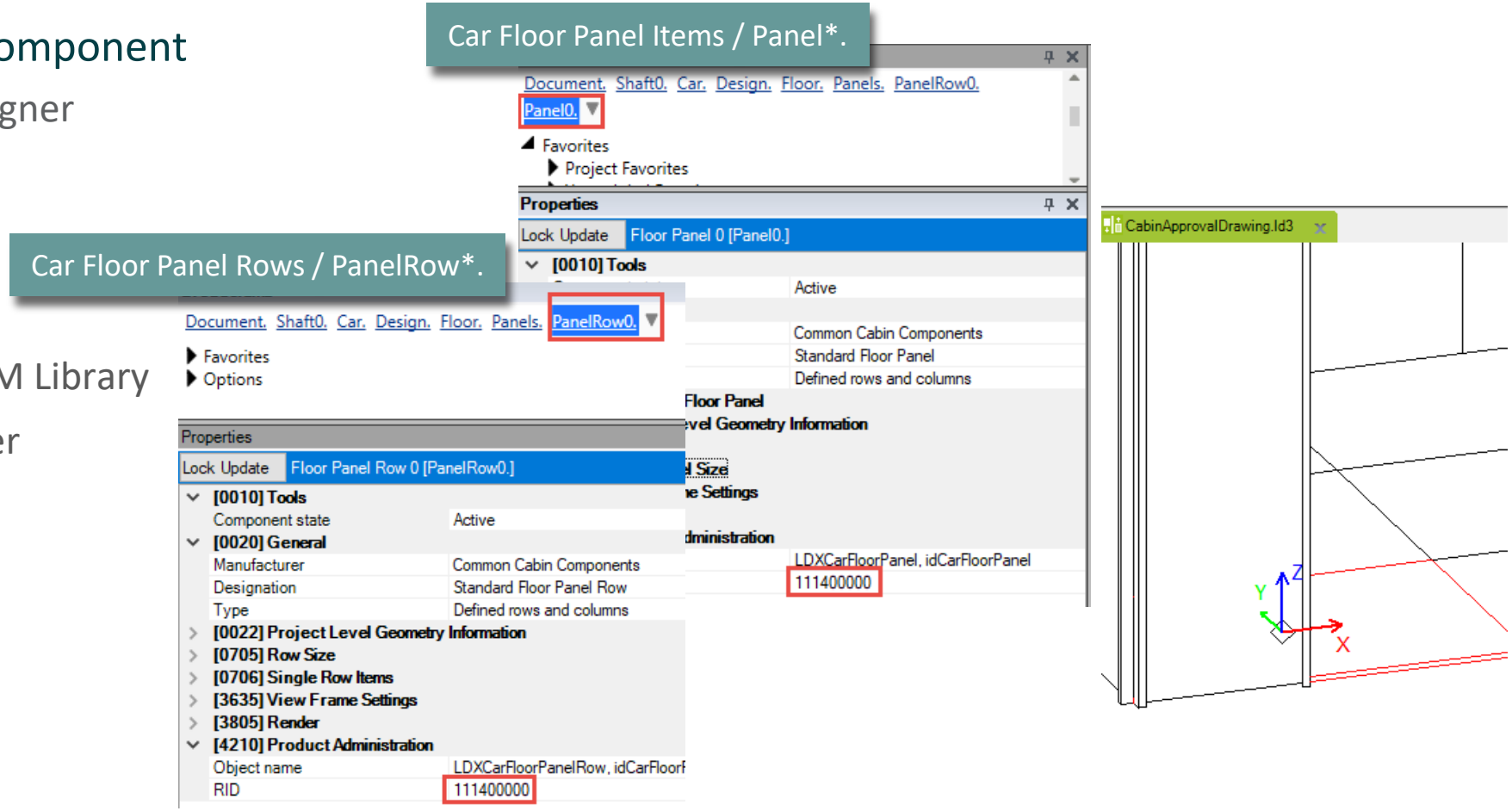
PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Find a similar BIM Component

- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number



Car Floors

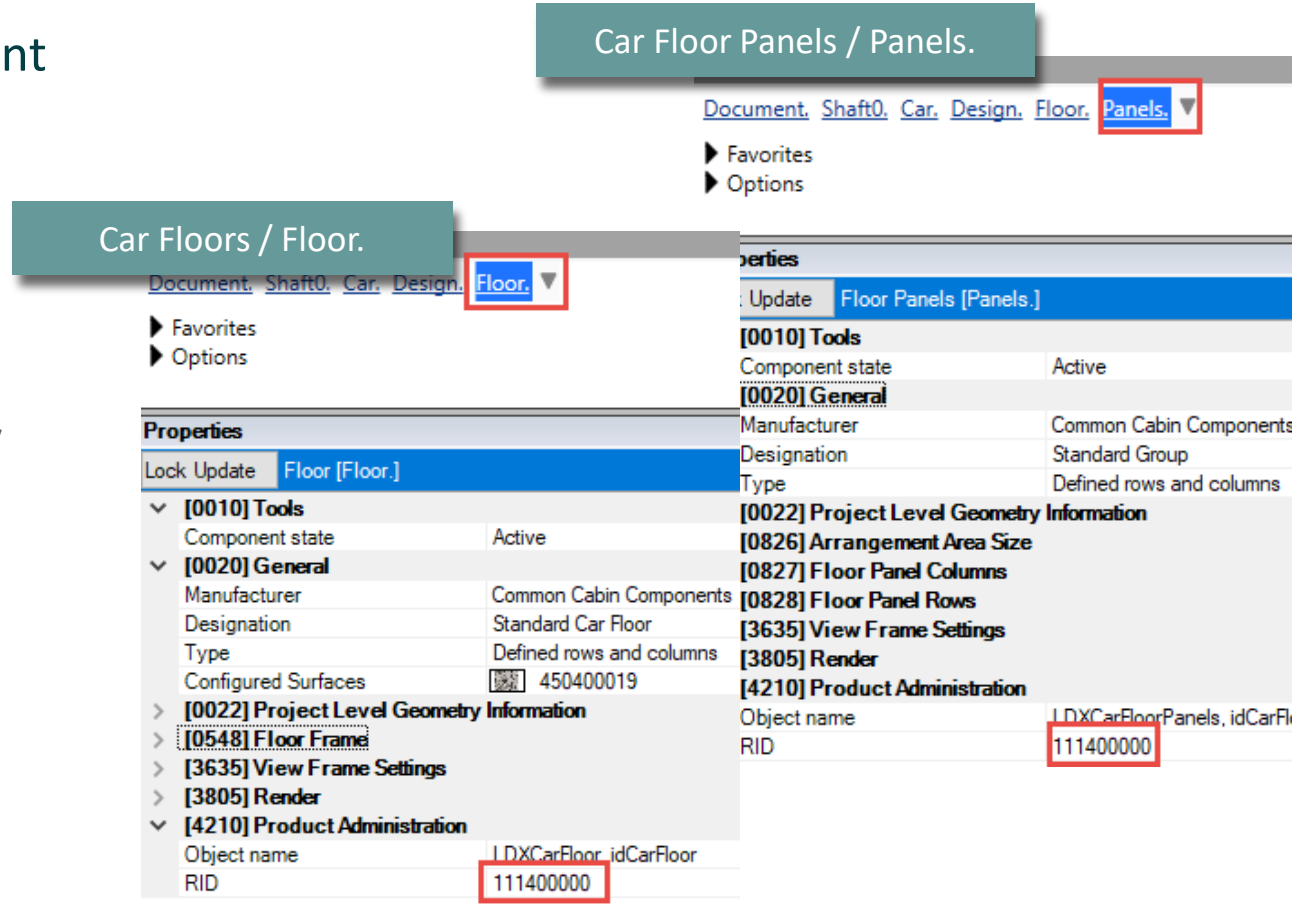
PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Find a similar BIM Component

- in DigiPara Liftdesigner

Find out:

- Manufacturer / BIM Library
- Unique RID number



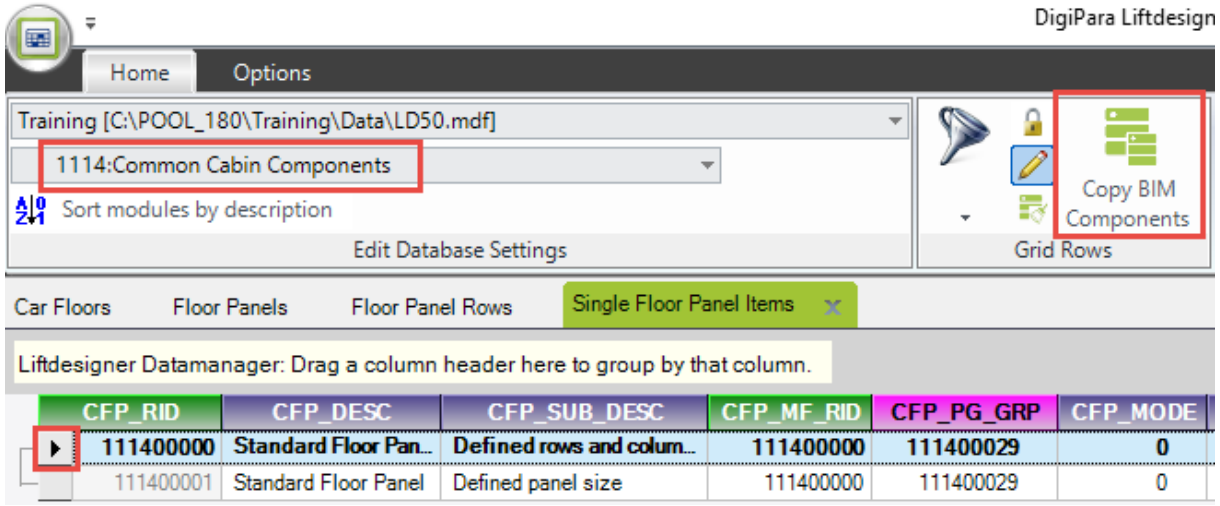
Single Floor Panel Items

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Copy a similar Component

- in DigiPara Liftdesigner Datamanager

- The BIM Component is copied with all parameter and values to a new manufacturer / DigiPara BIM Library.



Car Floor Panel Rows, Panels and Floors

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Copy a similar Component

- Floor Panel Rows

Car Floors | Floor Panels | **Floor Panel Rows** | Single Floor Panel Items

Liftdesigner Datamanager: Drag a column header here to group by that column.

CFPR_RID	CFPR_DESC	CFPR_SUB_DESC	CFPR_MF_RID	CFPR_PG_GRP	CFPR_CFP_RID
111400000	**Standard Floor Panel R...**	**Defined rows and colum...**	**111400000**	**111400061**	**111400000**
111400001	Standard Floor Panel Row	Defined panel size	111400000	111400061	111400001

- Floor Panels

Car Floors | **Floor Panels** | Floor Panel Rows | Single Floor Panel Items

Liftdesigner Datamanager: Drag a column header here to group by that column.

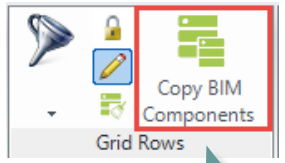
CFPS_RID	CFPS_DESC	CFPS_SUB_DESC	CFPS_MF_RID	CFPS_PG_GRP	CFPS_CFPR_RID
111400000	**Standard Group**	**Defined rows and colum...**	**111400000**	**111400038**	**111400000**
111400001	Standard Group	Defined panel size	111400000	111400038	111400001

- Car Floors

Car Floors | Floor Panels | Floor Panel Rows | Single Floor Panel Items

Liftdesigner Datamanager: Drag a column header here to group by that column.

CDFL_RID	CDFL_DESC	CDFL_SUB_DESC	CDFL_MF_RID	CDFL_PG_GRP
111400000	**Standard Car Flo...**	**Defined rows and colum...**	**111400000**	**111400060**
111400001	Standard Car Floor	Defined panel size	111400000	111400060



Same **Copy BIM Components** process

Car Floors

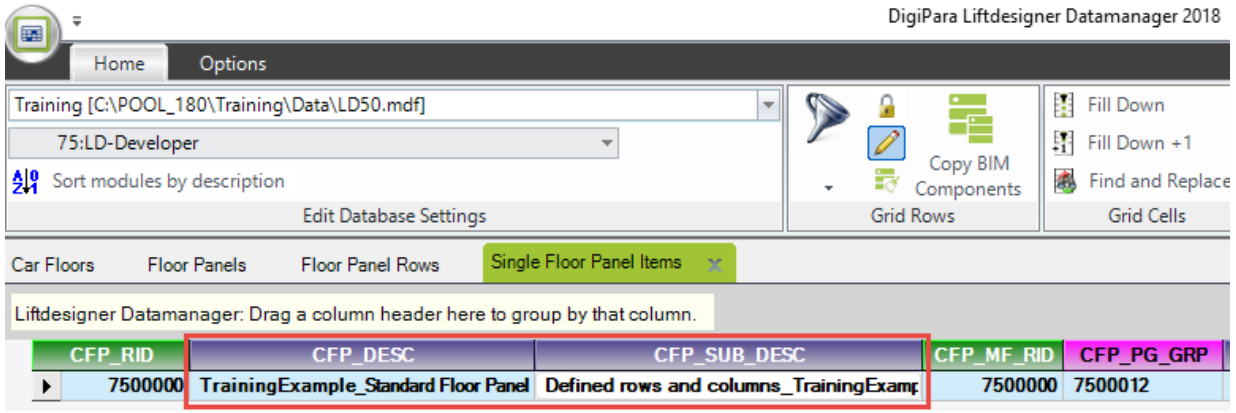
Edit the Meta Data & Determine related BIM Components

Edit the Meta Data

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Description: Single Floor Panel Items

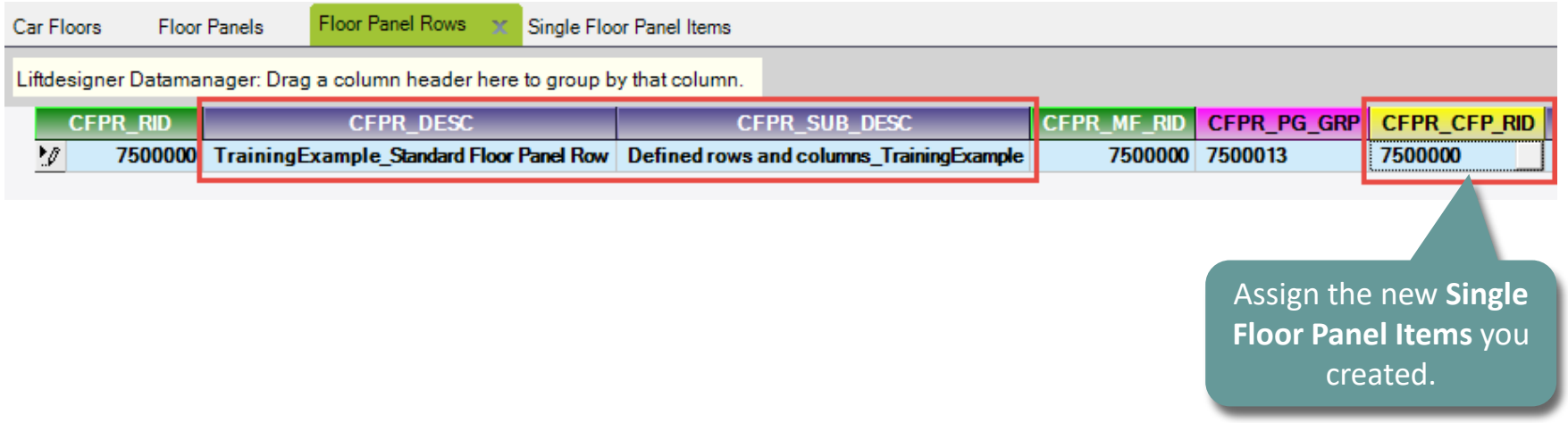
- Add a new specific description for the new copied BIM Component



Edit the Meta Data & Determine related BIM Components

Description & Assignment: Floor Panel Rows

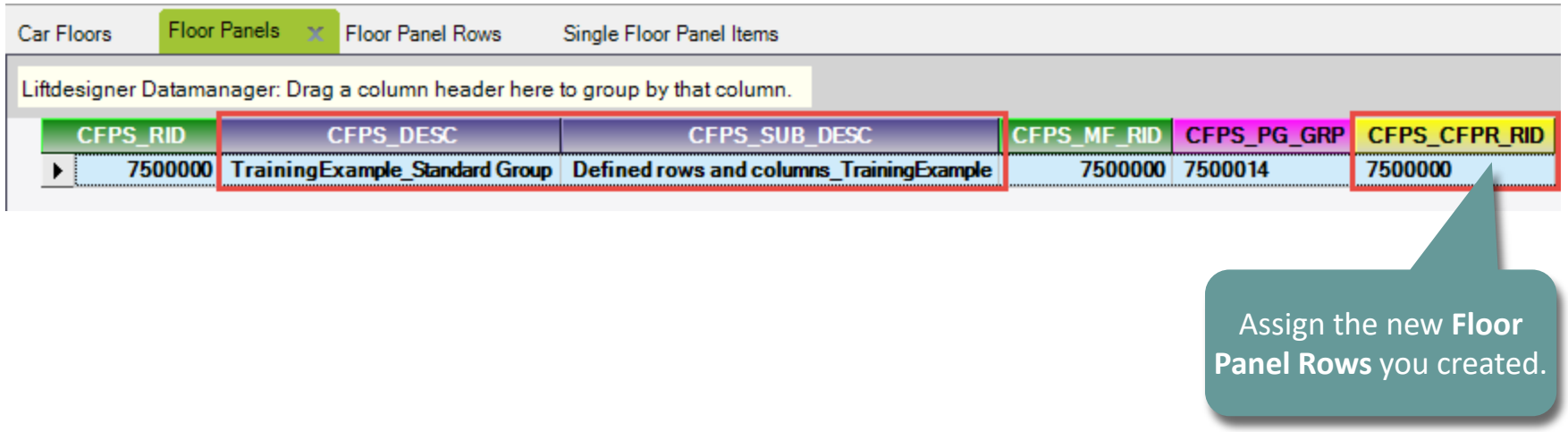
- Assign the created **Single Floor Panel Item** to the **Floor Panel Row**



Edit the Meta Data & Determine related BIM Components

Description & Assignment: Floor Panels

- Assign the created **Floor Panel Rows** to the **Floor Panels**

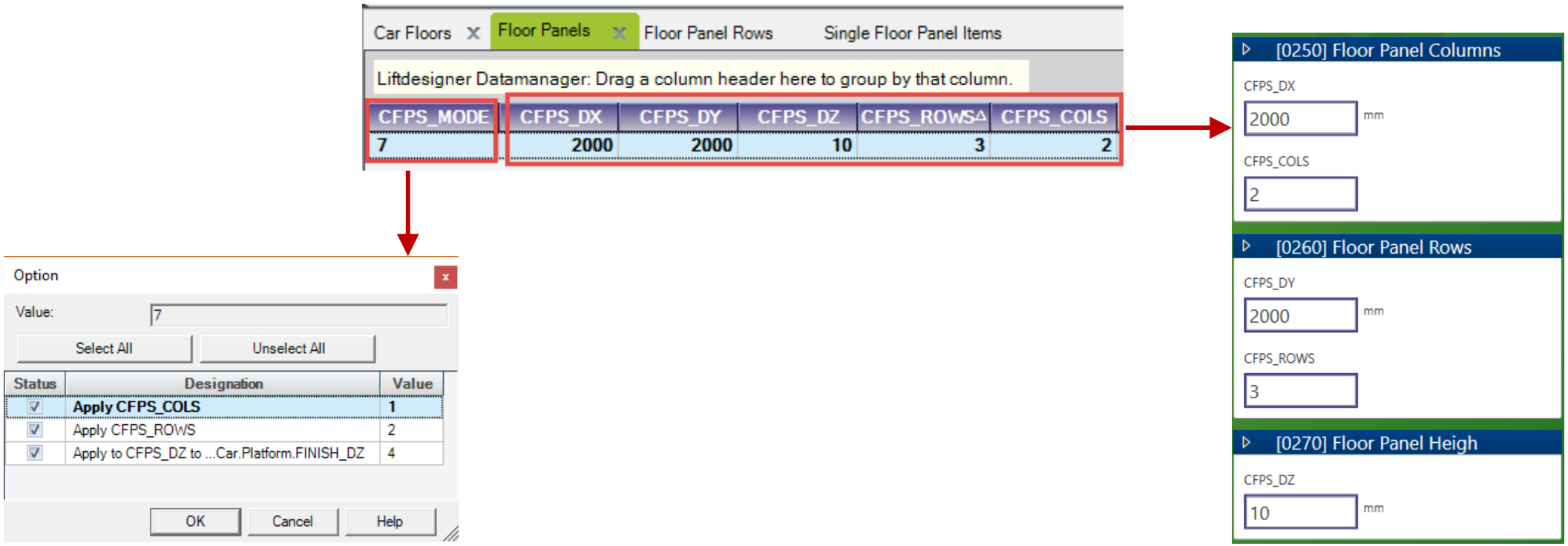


Edit the Meta Data

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Panel Settings: Floor Panels

- Define Panel Columns and Rows

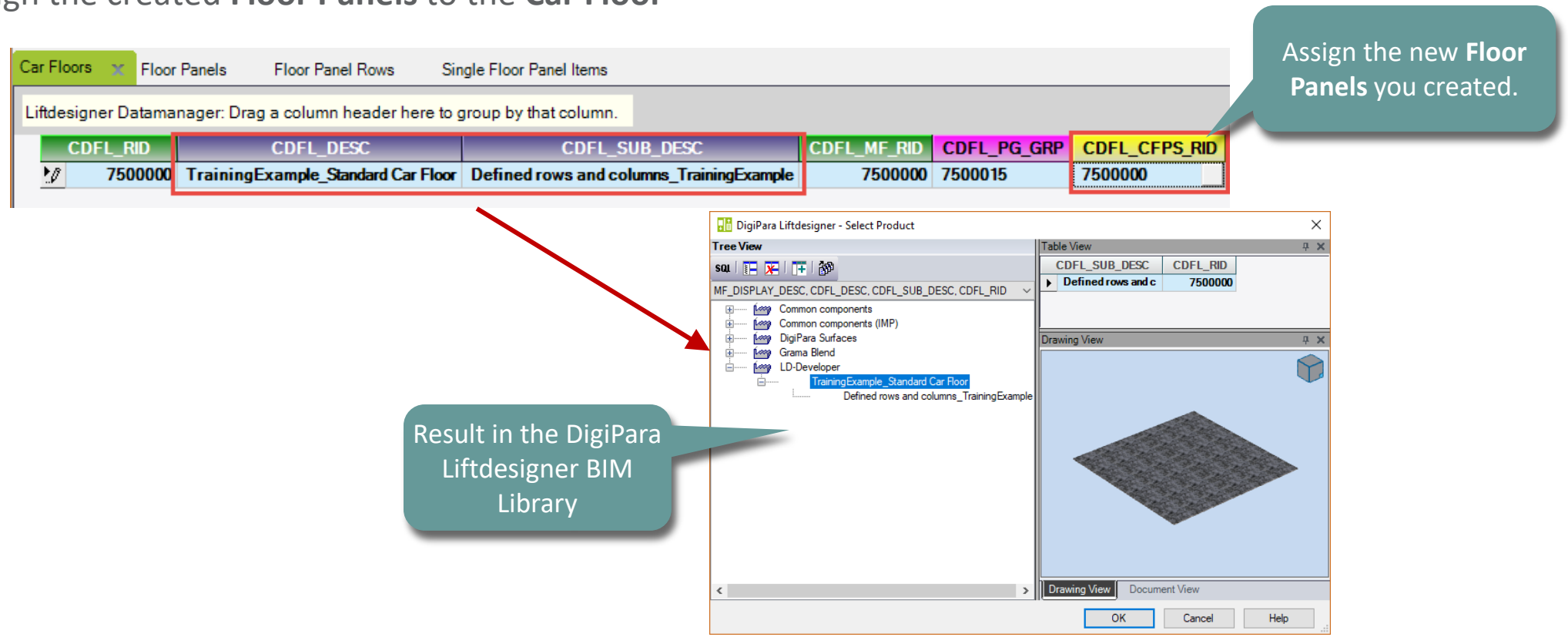


Edit the Meta Data & Determine related BIM Components

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Description & Related BIM Components: Car Floors

- Assign the created **Floor Panels** to the **Car Floor**

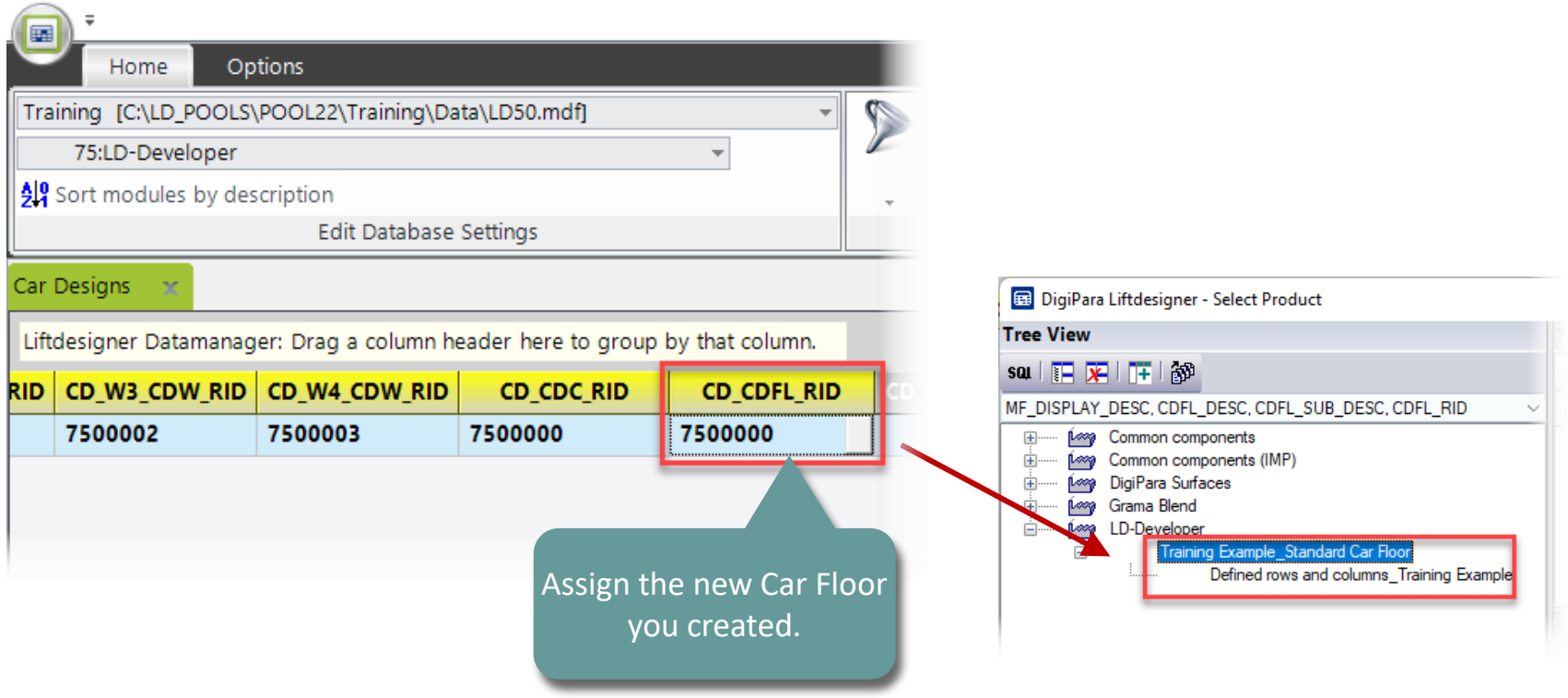


Edit the Meta Data & Determine related BIM Components

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Related BIM Components: Car Designs

- Assign the created **Car Floors** to the **Car Designs**



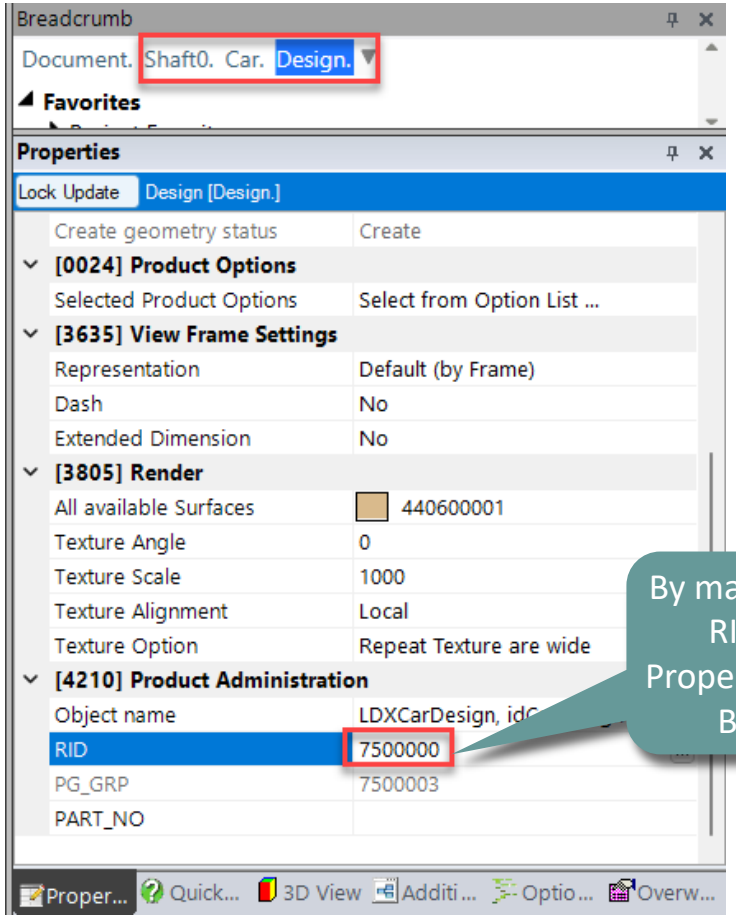
Load your edited BIM Component

PL9.4 PRODUCT LOADING: CABIN DESIGN FLOOR AND CEILING

Reload the modified BIM Component

- in DigiPara Liftdesigner

Reload your BIM Component to accept edited values from the DigiPara Liftdesigner Datamanager.



By manually swapping the RID number in the Properties Window for the BIM Component.

digipara® liftdesigner

PL9.5

Product Loading: Cabin Design Wall Components

Mirrors and Hand Rails

Copy a similar BIM Component

Mirrors and Hand Rails – Mirrors

PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

digipara® liftdesigner

Find a similar BIM Component

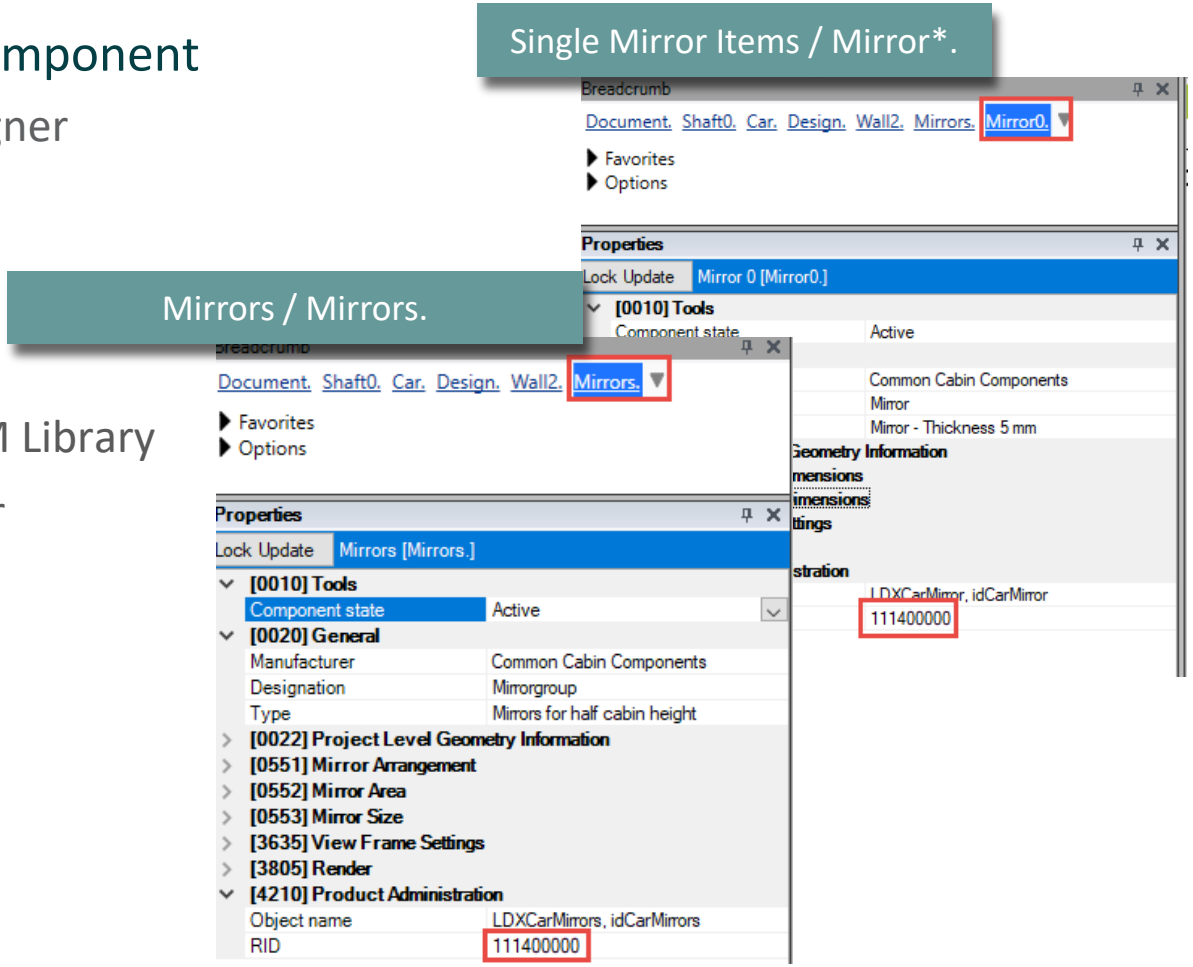
- in DigiPara Liftdesigner

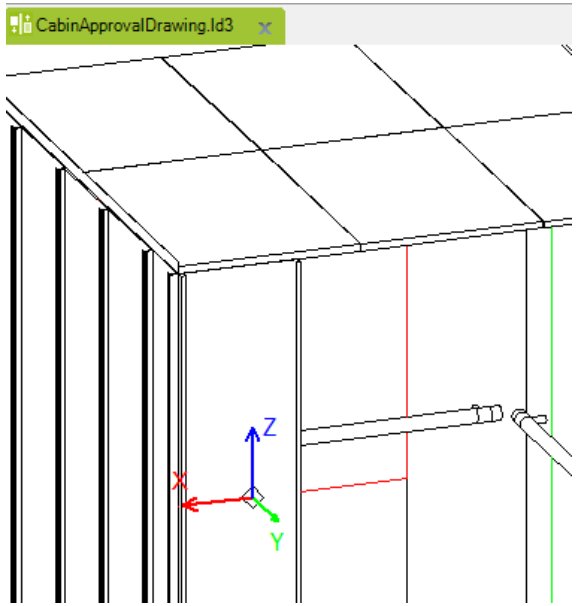
Find out:

- Manufacturer / BIM Library
- Unique RID number

Single Mirror Items / Mirror*.

Mirrors / Mirrors.





Mirrors and Hand Rails – Handrails

PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

digipara® liftdesigner

Find a similar BIM Component

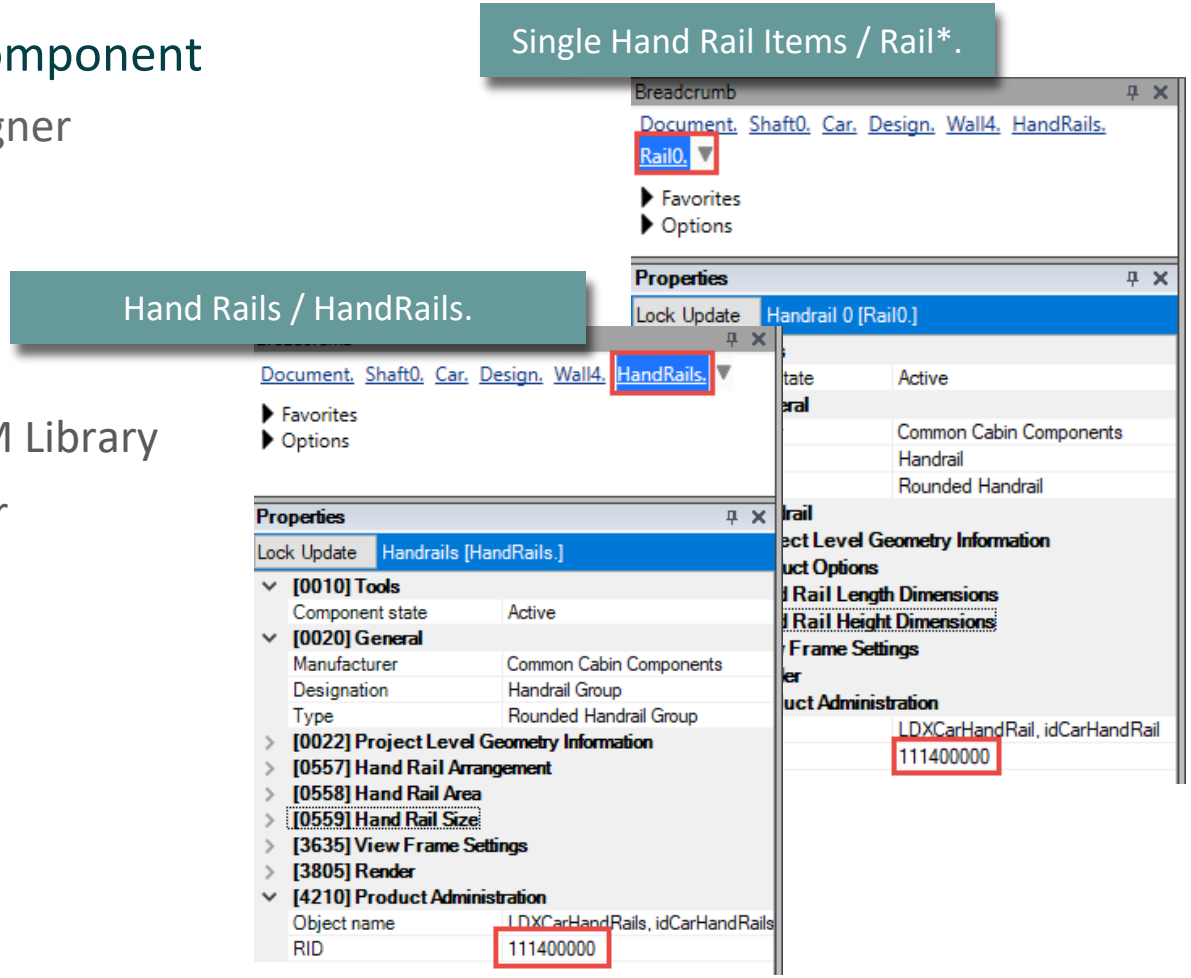
- in DigiPara Liftdesigner

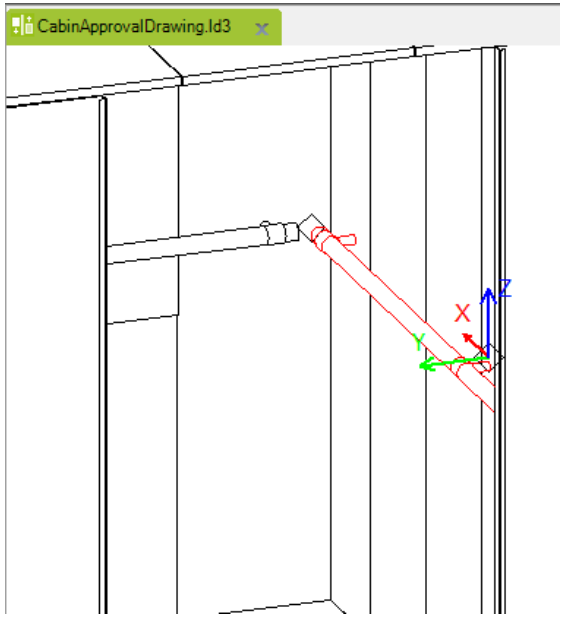
Find out:

- Manufacturer / BIM Library
- Unique RID number

Single Hand Rail Items / Rail*.

Hand Rails / HandRails.



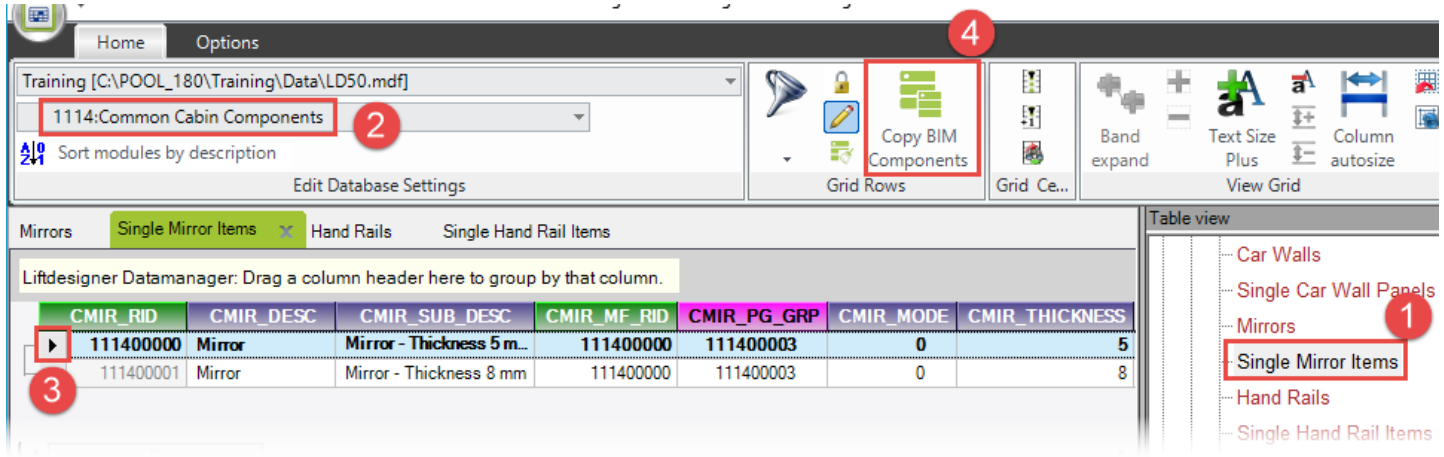


Mirrors and Hand Rails – Mirrors

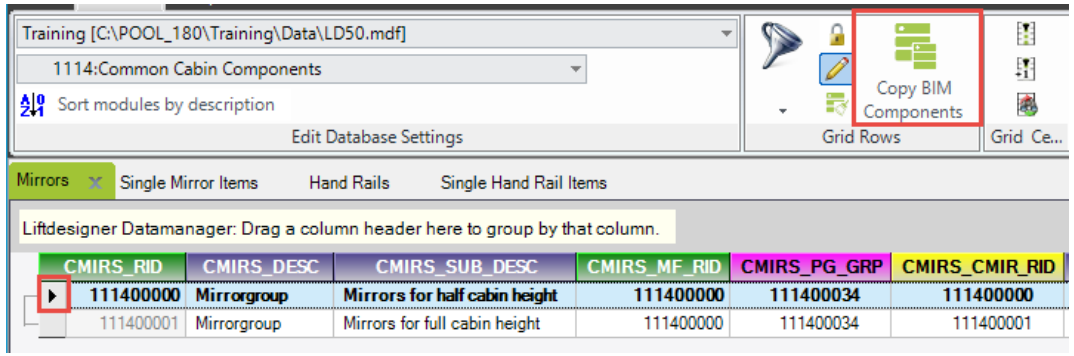
PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

Copy a similar Component

- Single Mirror Items



- Mirrors

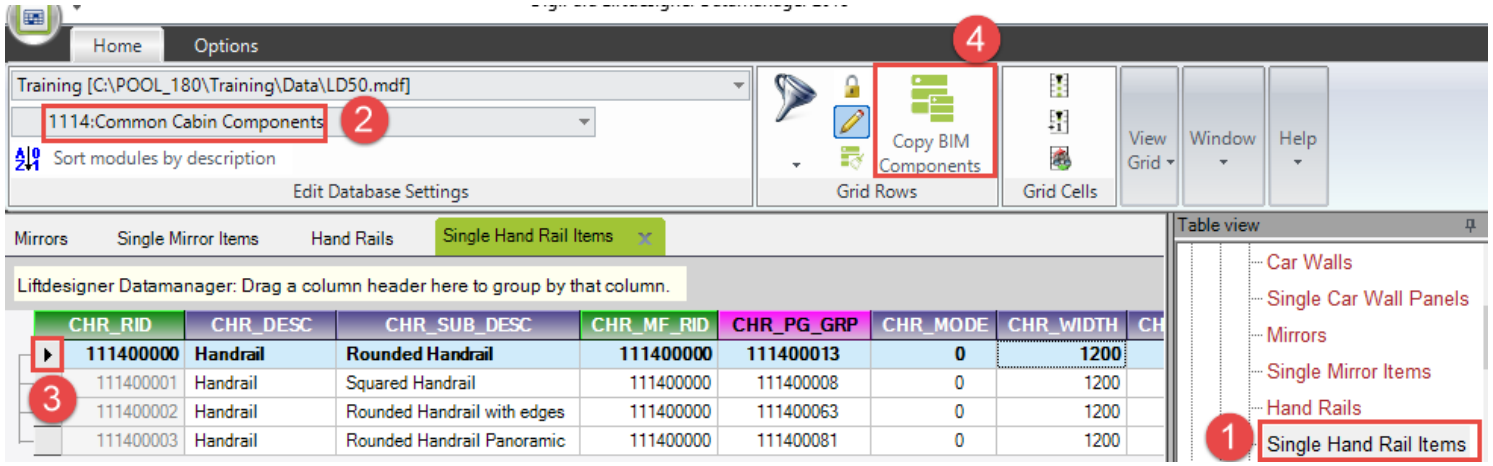


Mirrors and Hand Rails – Hand Rails

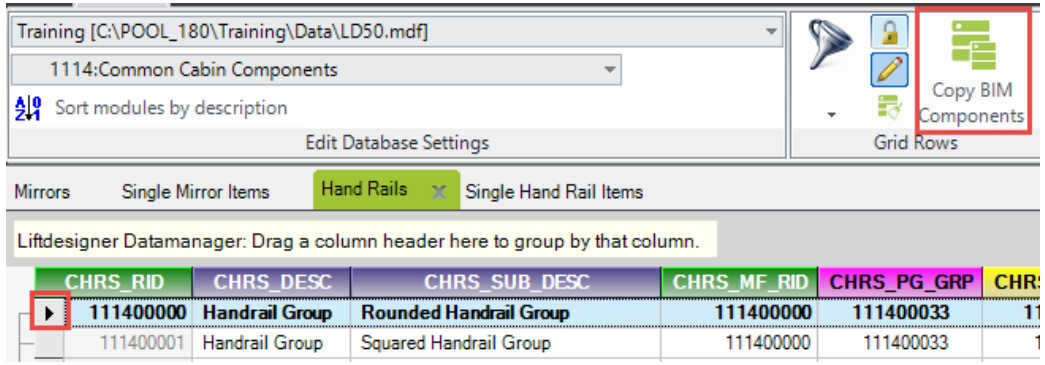
PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

Copy a similar Component

- Single Hand Rail Items



- Hand Rails



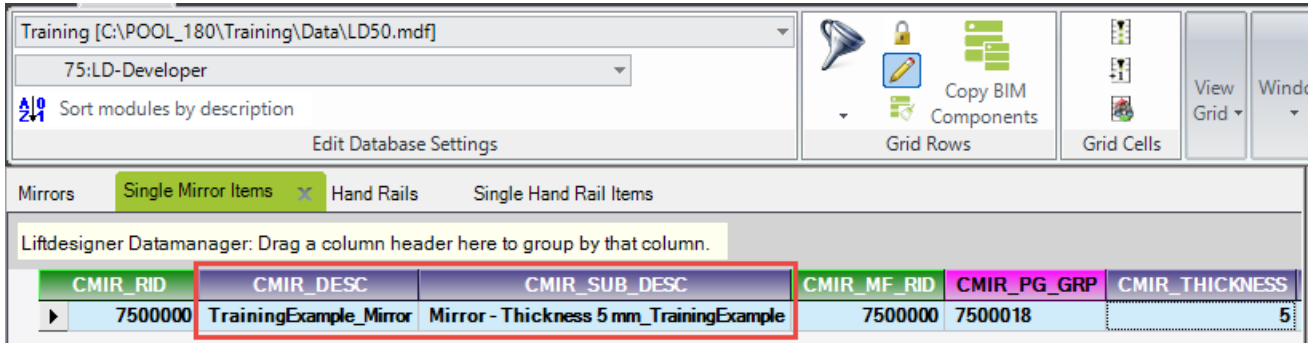
Mirrors and Hand Rails

Edit the Meta Data & Determine related BIM Components

Edit the Meta Data

Description: Single Mirror Items

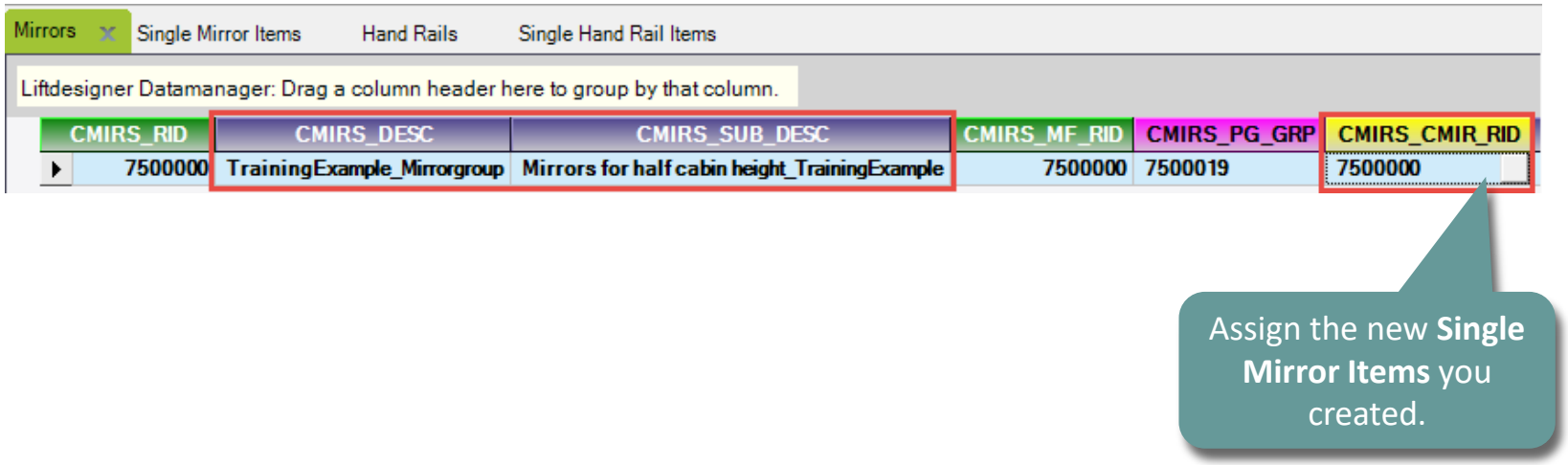
- Add a new specific description for the new copied BIM Component



Edit the Meta Data & Determine related BIM Components

Description & Assignment: Mirrors

- Assign the created **Single Mirror Item** to the **Mirrors**



Edit the Meta Data

PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

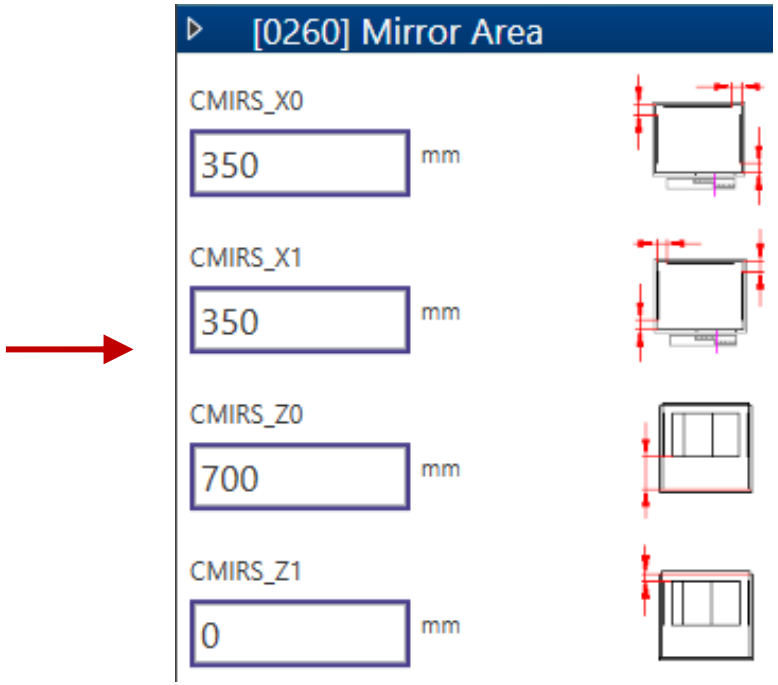
Area Settings: Mirrors

- Define the positions

Mirrors | Single Mirror Items | Hand Rails | Single Hand Rail Items

Liftdesigner Datamanager: Drag a column header here to group by that column.

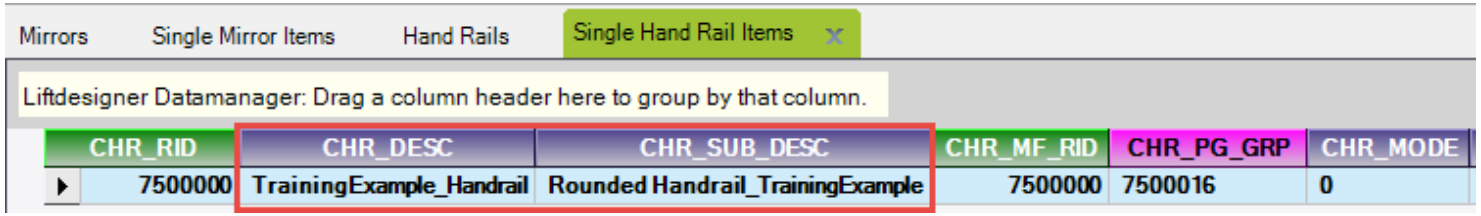
CMIRS_X0	CMIRS_X1	CMIRS_Z0	CMIRS_Z1	CMIRS_CLR	CMIRS_CMIR_WIDTH
350	350	700	0	0	1450



Edit the Meta Data

Description: Single Hand Rail Items

- Add a new specific description for the new copied BIM Component



Edit the Meta Data

PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

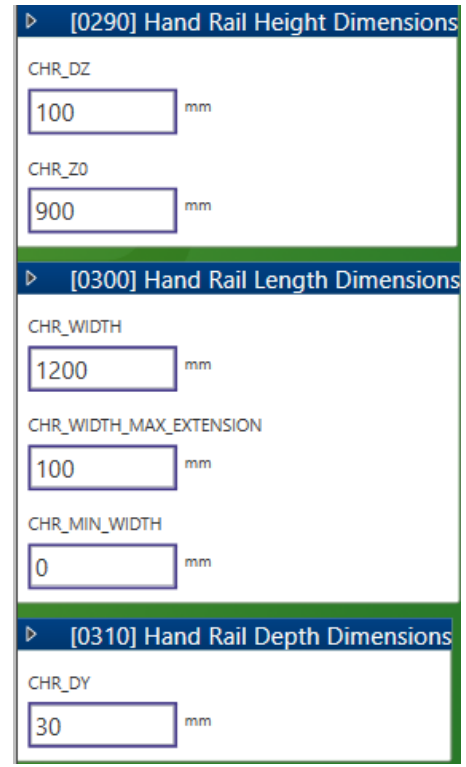
Dimension Settings: Single Hand Rail Items

- Define length, height and depth dimensions

Mirrors | Single Mirror Items | Hand Rails | Single Hand Rail Items

Liftdesigner Datamanager: Drag a column header here to group by that column.

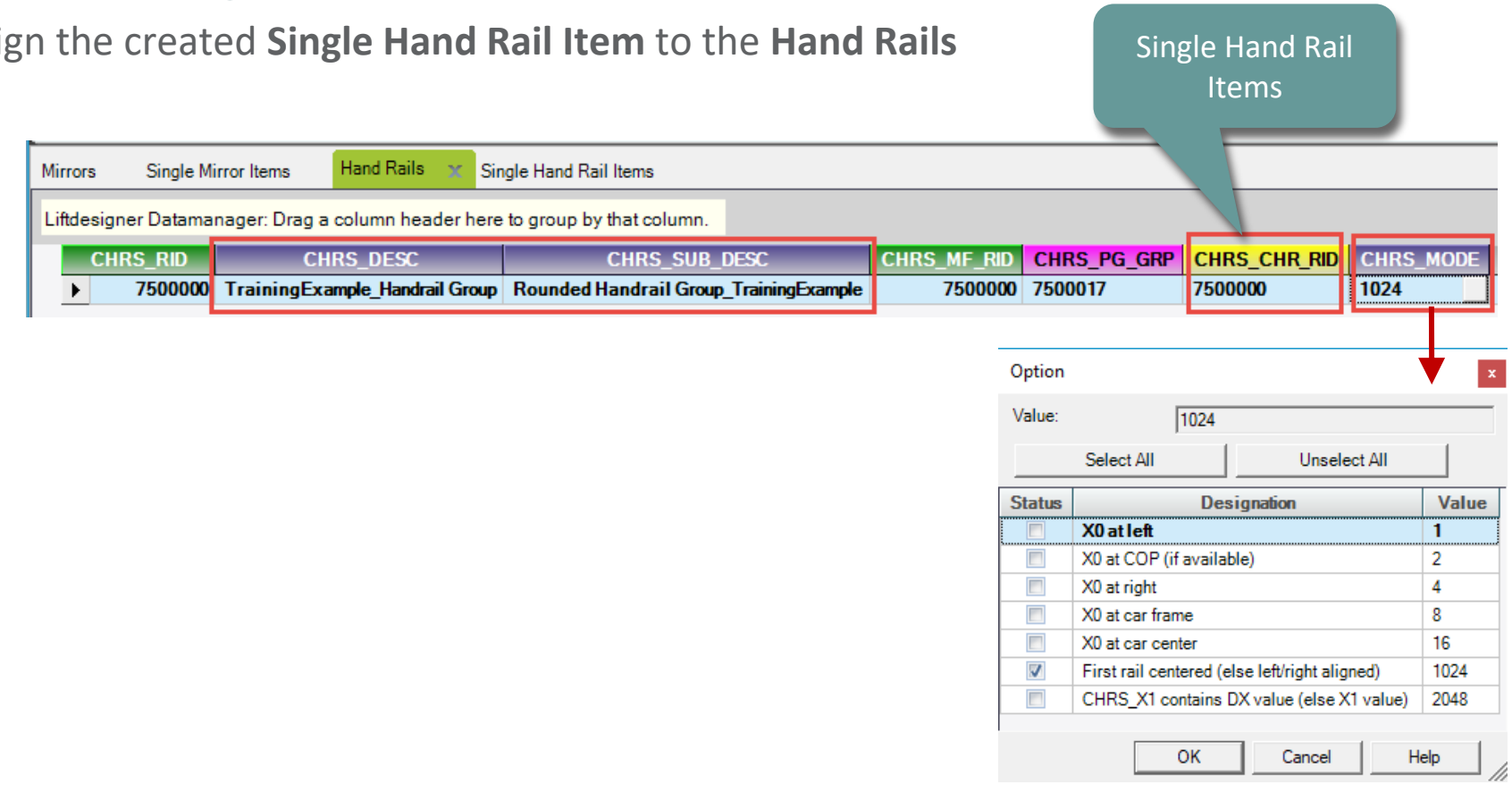
CHR_WIDTH	CHR_WIDTH_MAX_EXTENSION	CHR_DY	CHR_DZ	CHR_Z0	CHR_MIN_WIDTH
1200	100	30	100	900	0



Edit the Meta Data & Determine related BIM Components

Description & Assignment: Hand Rails

- Assign the created **Single Hand Rail Item** to the **Hand Rails**

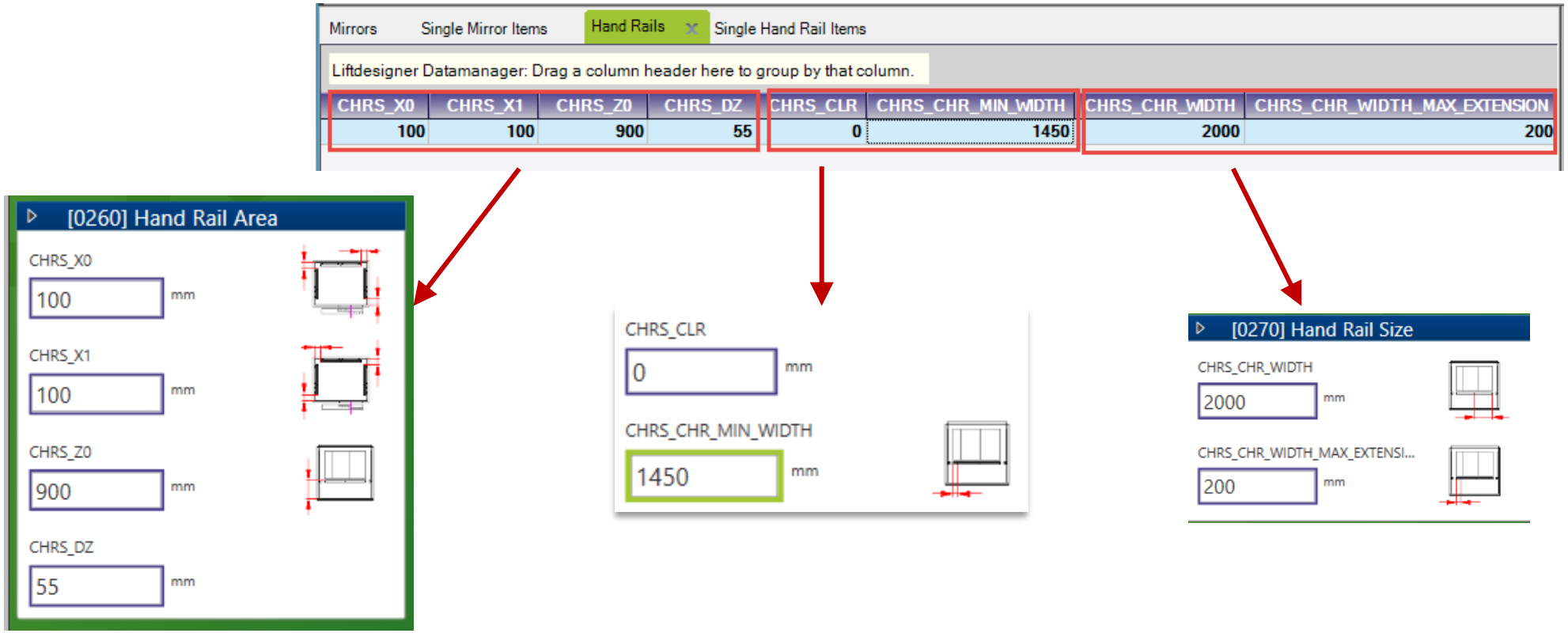


Edit the Meta Data

PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

Area & Size Settings: Hand Rails

- Define the position and size

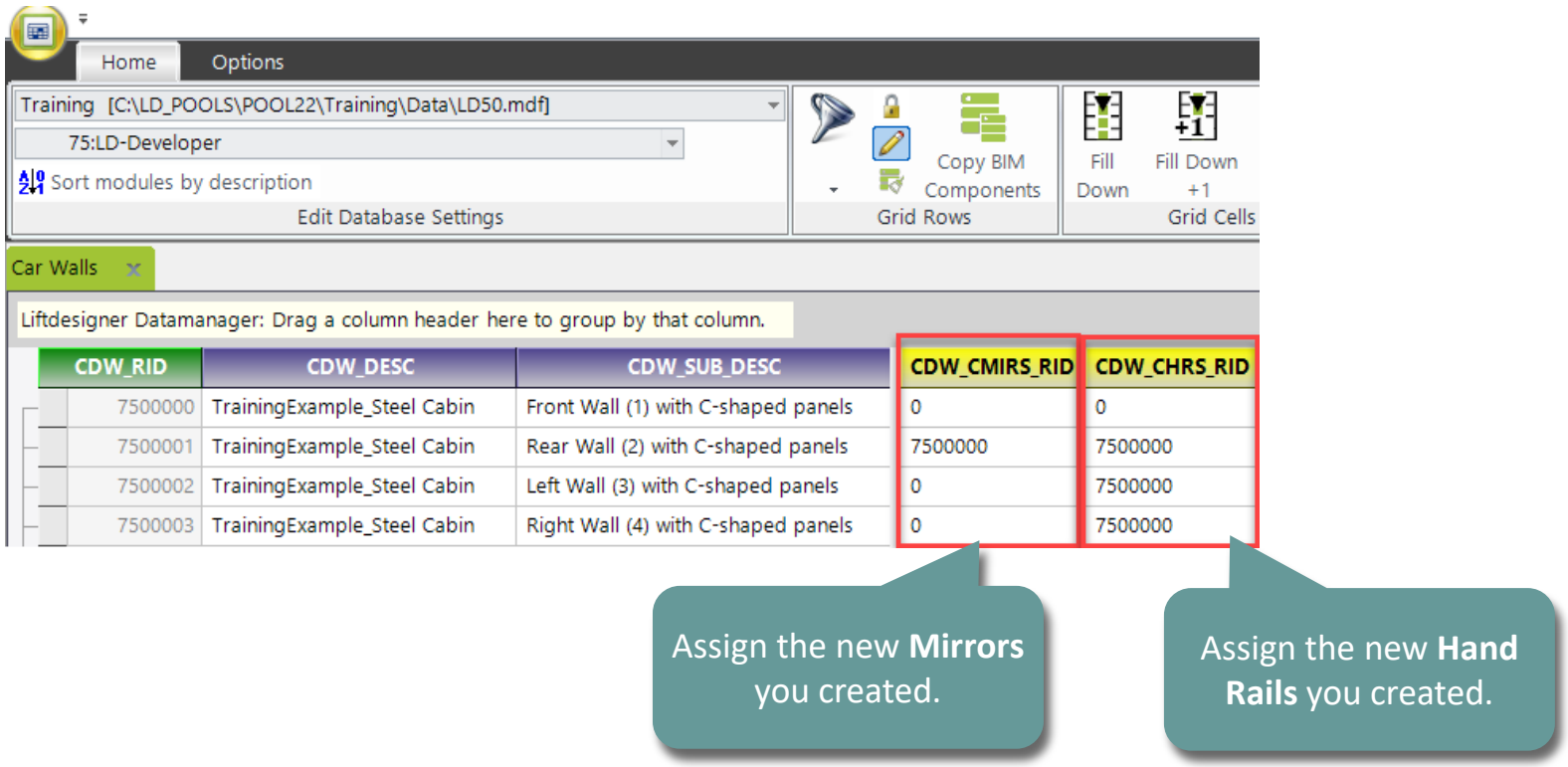


Edit the Meta Data & Determine related BIM Components

PL9.5 PRODUCT LOADING: CABIN DESIGN WALL COMPONENTS

Related BIM Components: Car Walls

- Assign the created **Mirrors & Hand Rails** to the **Car Walls**



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PL9.6

Product Loading: Cabin Design Ceiling Components

Product Loading: Lights (CAD Model)

Preparation Steps

Lights (CAD Model) – Product Loading Workflow

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

Typical Processes

- in DigiPara Liftdesigner Datamanger
  - Copy a similar BIM Component
  - Edit the Meta Data

- in DigiPara Liftdesigner
  - Load your edited BIM Component
  - Load the Developer Work Area
  - Add, align and position your CAD Model
  - Delete unneeded DigiPara Liftdesigner profiles
  - Save the BIM Component back into the BIM Library

Optional Steps

- in DigiPara Liftdesigner Datamanger
  - Define new Product Options

- in DigiPara Liftdesigner
  - Reload the modified BIM Component
  - Assign the created Product Options
  - Redefine Rules Options
  - Check the new Product Options

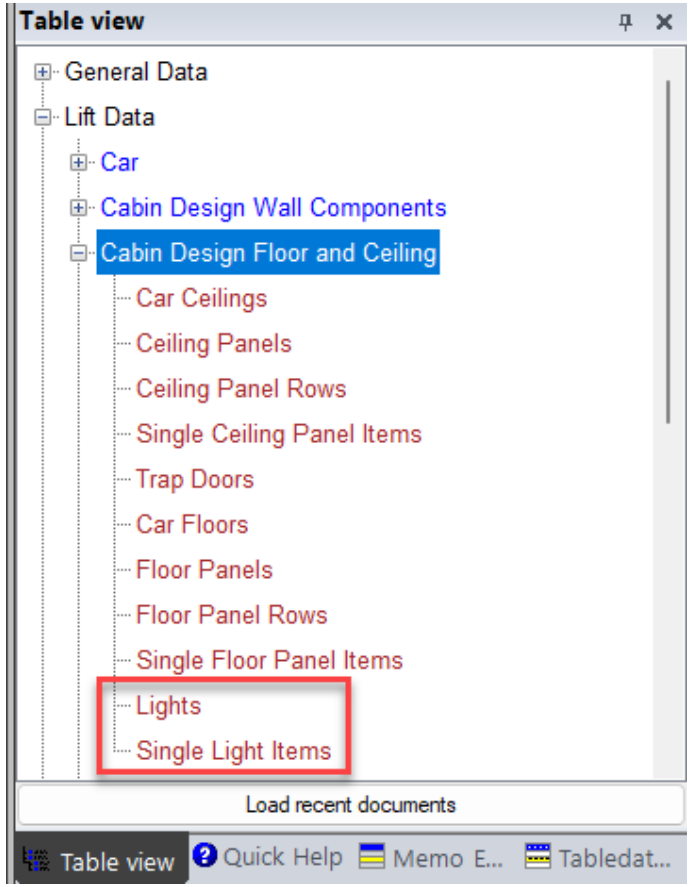
Product Loading: Lights (CAD Model)

Typical Processes

Roadmap

Step 2: Lights

Step 1: Single Light Items

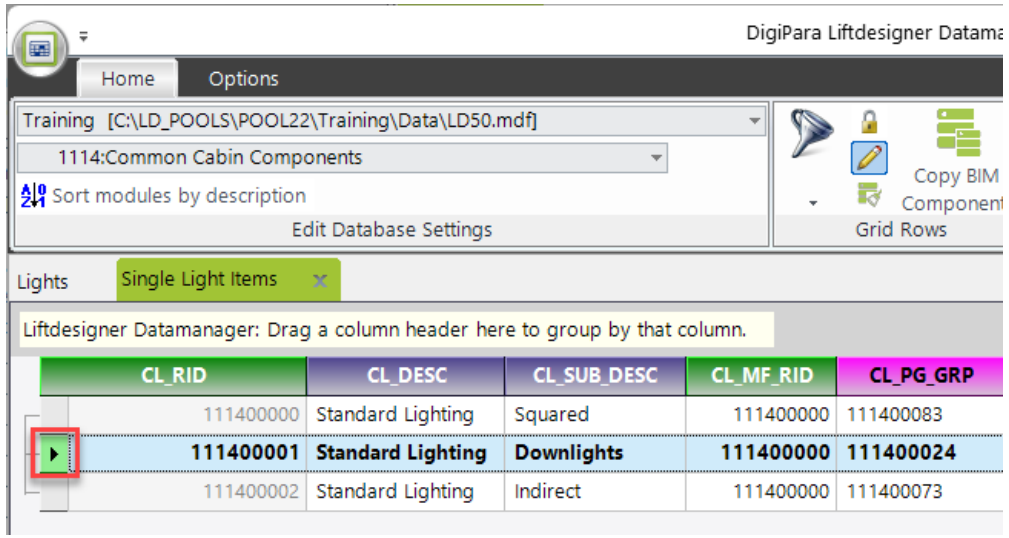


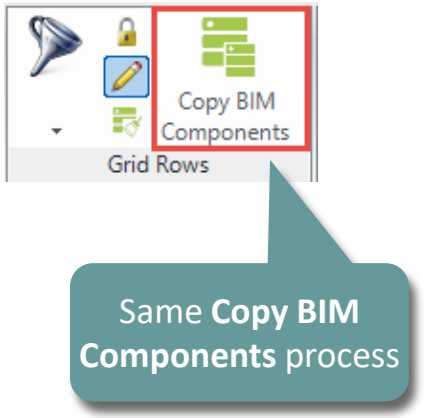
Product Loading: Lights – Typical Processes

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

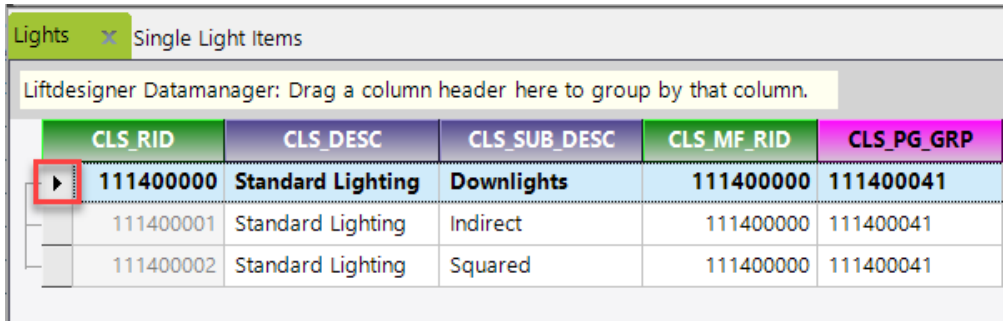
Copy a similar Component

- Single Light Items





- Lights

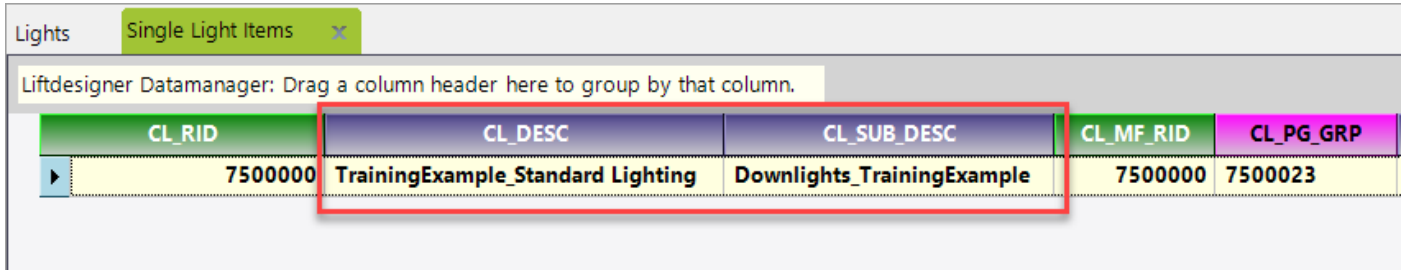


Product Loading: Lights – Typical Processes

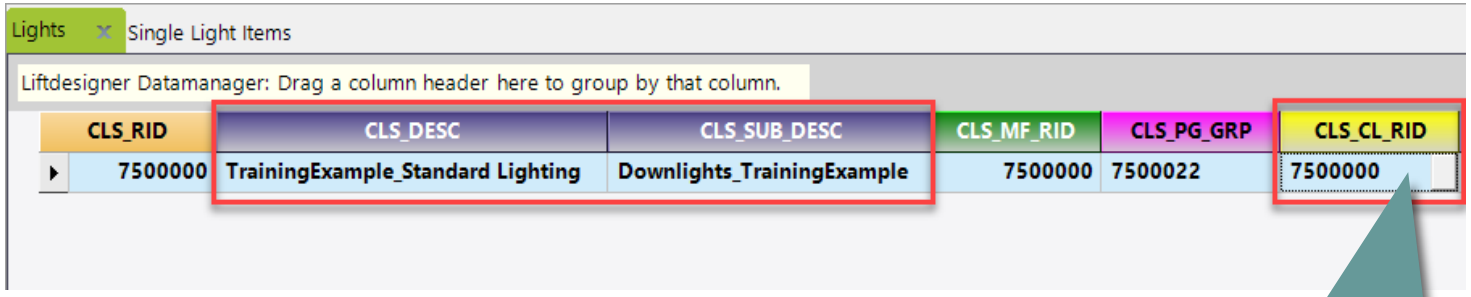
PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

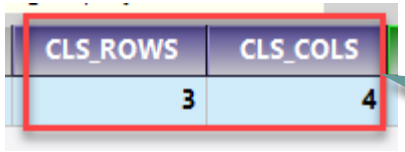
Descriptions, Assignments & related BIM Components

- Single Light Items



- Lights





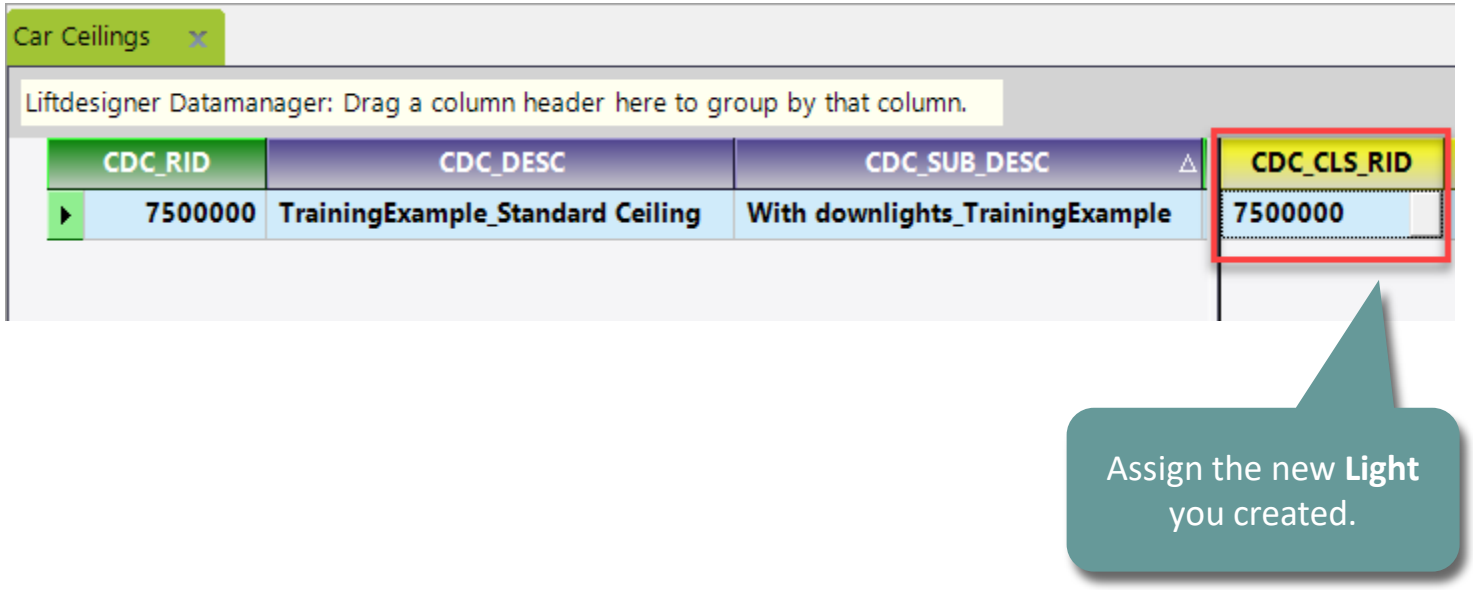
Ceiling Light **Rows & Columns** Piece

Assign the new **Single Light Items** you created.

Product Loading: Lights – Typical Processes

Related BIM Components: Car Ceilings

- Assign the created **Light** to the **Car Ceilings**



Rule Editor: Lights

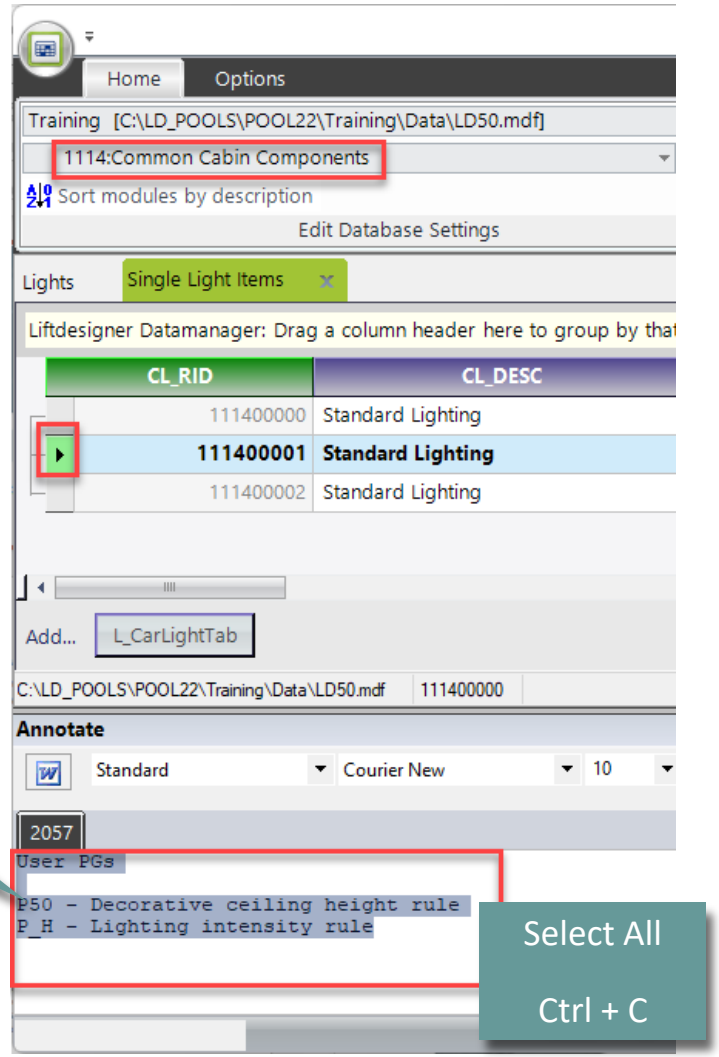
Annotate & Special Assignment

Options & Rules

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

Copy a similar Component Annotate

- Copy the notes of a similar Component to the newly copied product



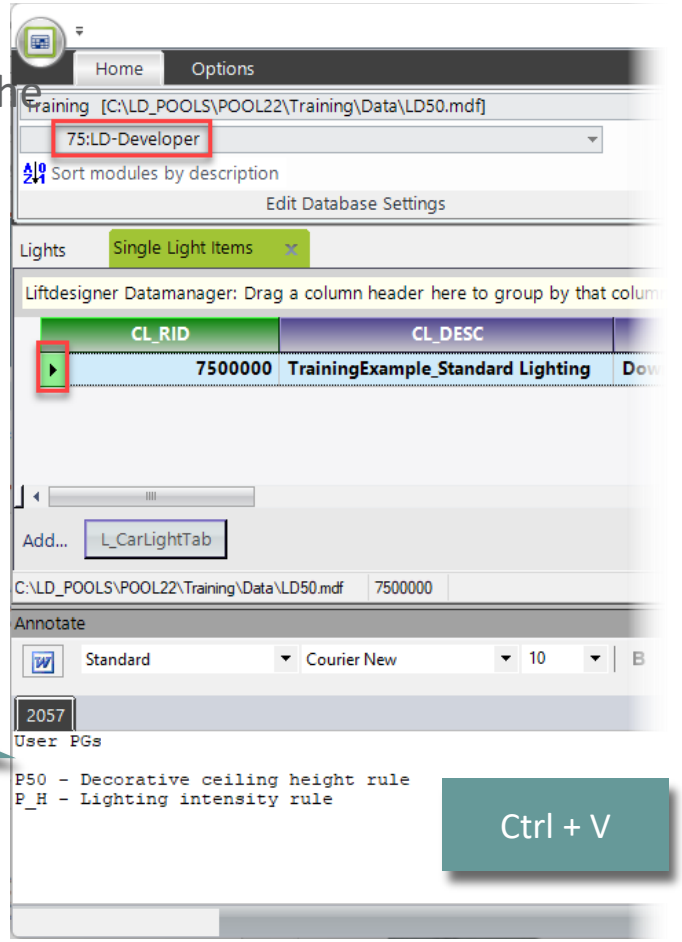
These notes will help us when creating a rule or changing an existing rule in our new ceiling

Select All

Ctrl + C

Copy a similar Component Annotate

- Copy the notes of a similar Component to the newly copied component



These notes will help us when creating a rule or changing an existing rule in our new ceiling

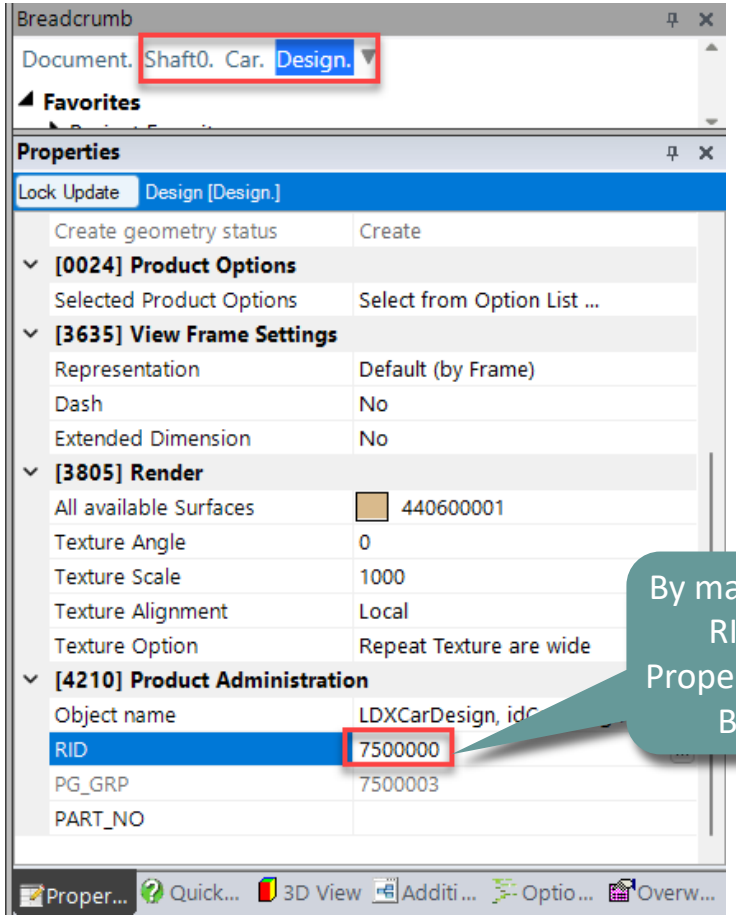
Load your edited BIM Component

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

Reload the modified BIM Component

- in DigiPara Liftdesigner

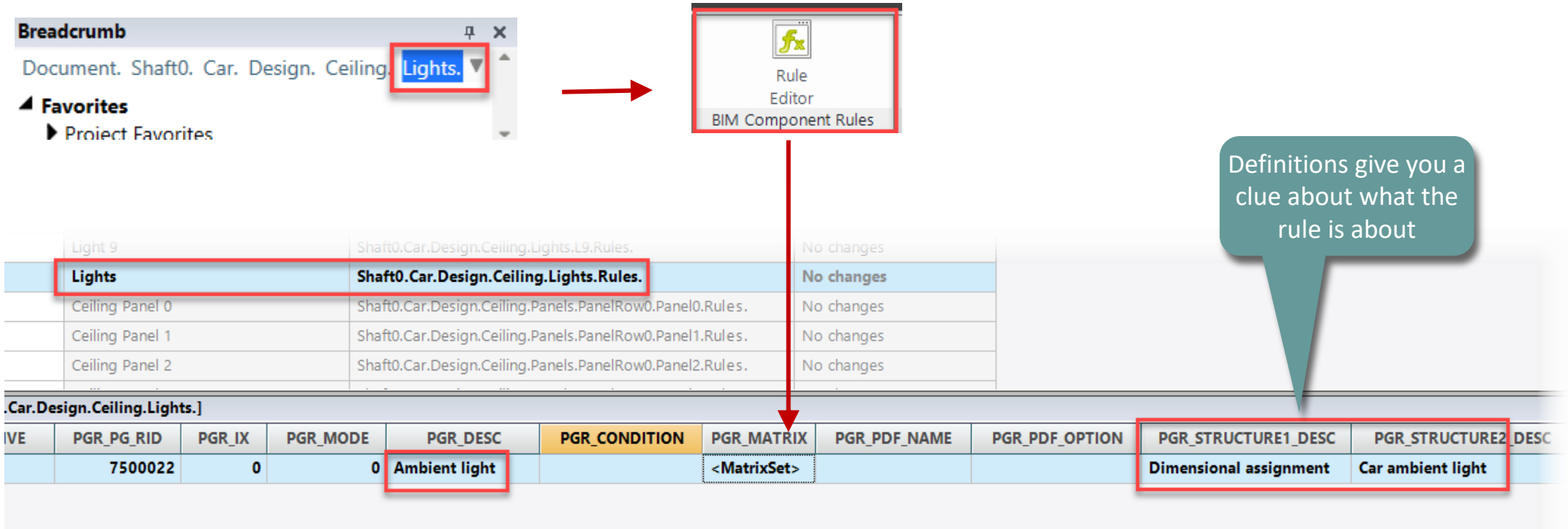
Reload your BIM Component to accept edited values from the DigiPara Liftdesigner Datamanager.



By manually swapping the RID number in the Properties Window for the BIM Component.

Rule Editor

- Assignment



Rule Editor

- Assignment

Matrix rule - [Shaft0.Car.Design.Ceiling.Lights.Rules.Rule0.]

IX	C1	C2	A1
-1	LD("Me.L_CarLightsTab.CLS_USER_PG_51")=	LD("Me.L_CarLightsTab.CLS_USER_PG_52")=	Me.Profile0.L_ProfilTab.P_H
0	0	0	0
1	100	0	100
2	0	1	0
3	100	1	0

Lights

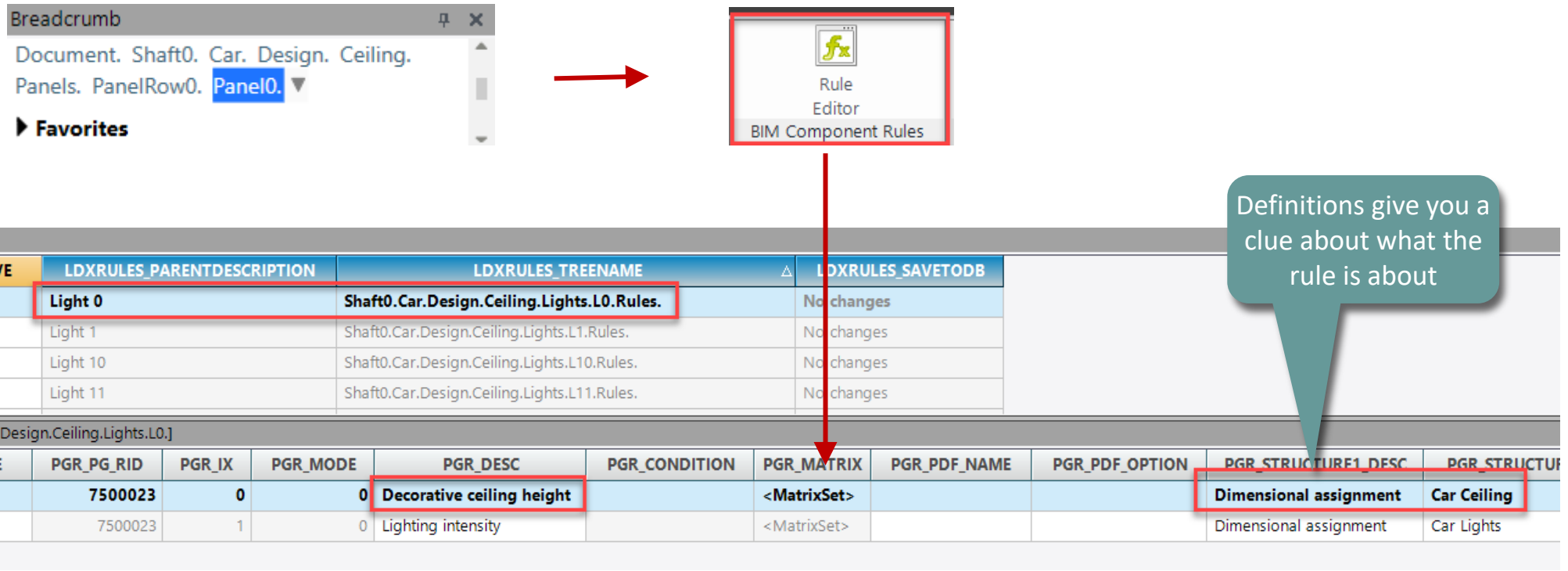
Liftdesigner Datamanager: Drag a column header here to group by that column.

CLS_RID	CLS_DESC		CLS_USER_PG_50	CLS_USER_PG_51	CLS_USER_PG_52	CLS
7500000	TrainingExample_Standard Lighting	Downl	20	100	0	

P_H parameter of the specific DigiPara Liftdesigner geometry for ambient light

Rule Editor

- Assignment

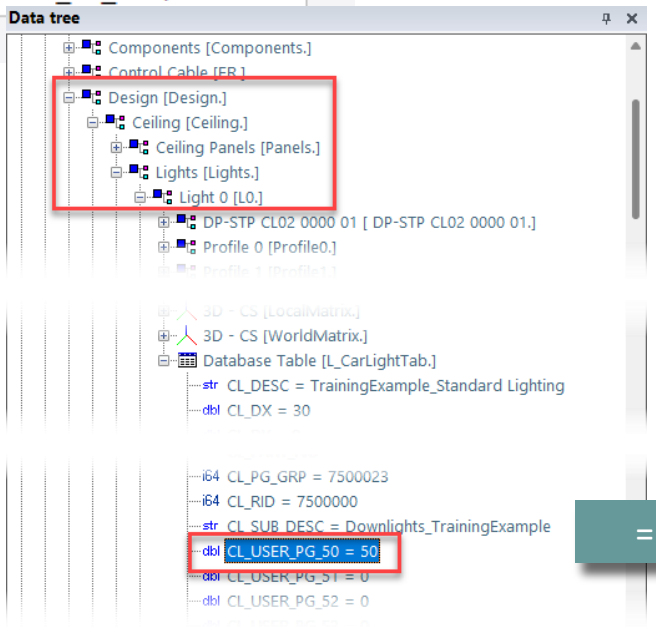


Rule Editor

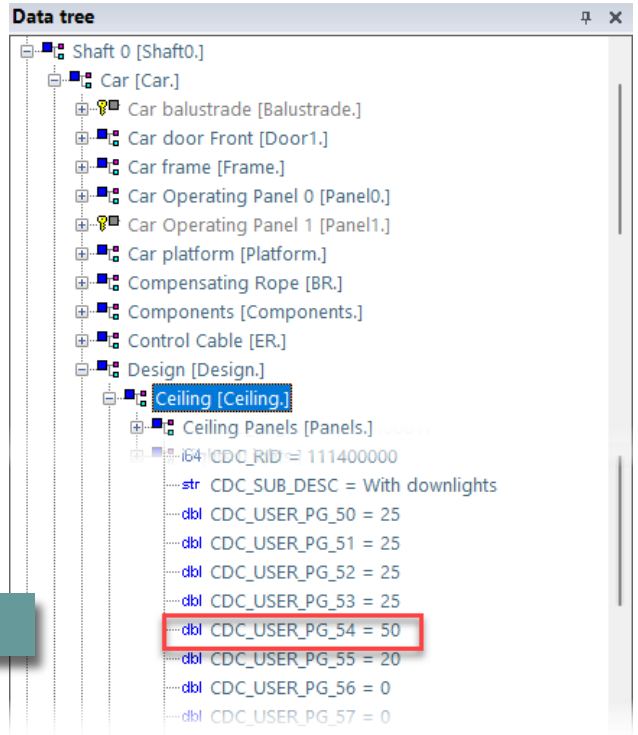
- Assignment

Matrix rule - [Shaft0.Car.Design.Ceiling.Lights.L0.Rules.Rule0.]

IX	A1
-1	Me.L_CarLightTab.CL_USER_PG_50
0	LD("Me.Parent.Parent.L_CarCeilingTab.CDC_USER_PG_54")

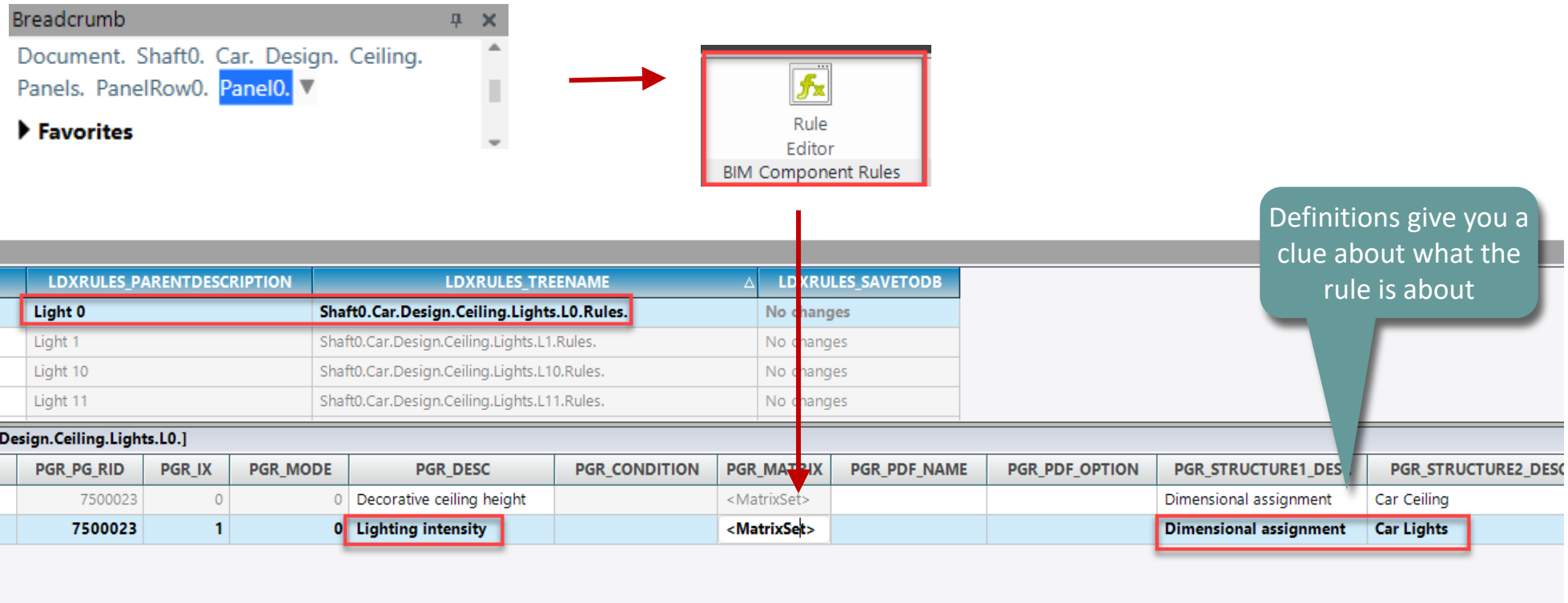


=



Rule Editor

- Assignment

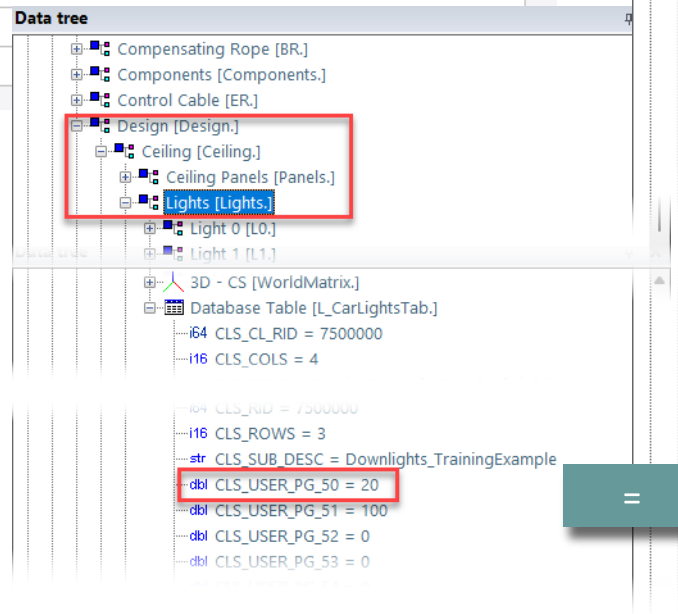


Rule Editor

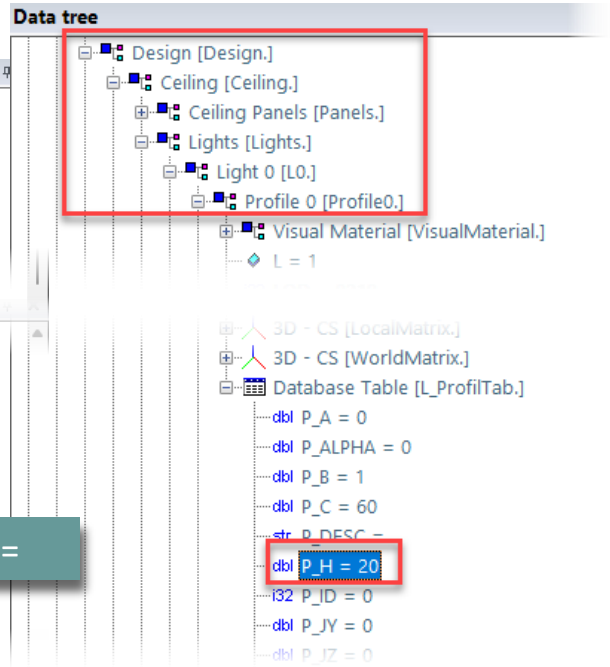
- Assignment

Matrix rule - [Shaft0.Car.Design.Ceiling.Lights.L0.Rules.Rule1.]

IX	C1	A1
-1	LD("Me.Parent.L_CarLightsTab.CLS_USER_PG_50")=	Me.Profile0.L_ProfilTab.P_H
0	0	0
1	10	10
2	20	20
3	30	30



=



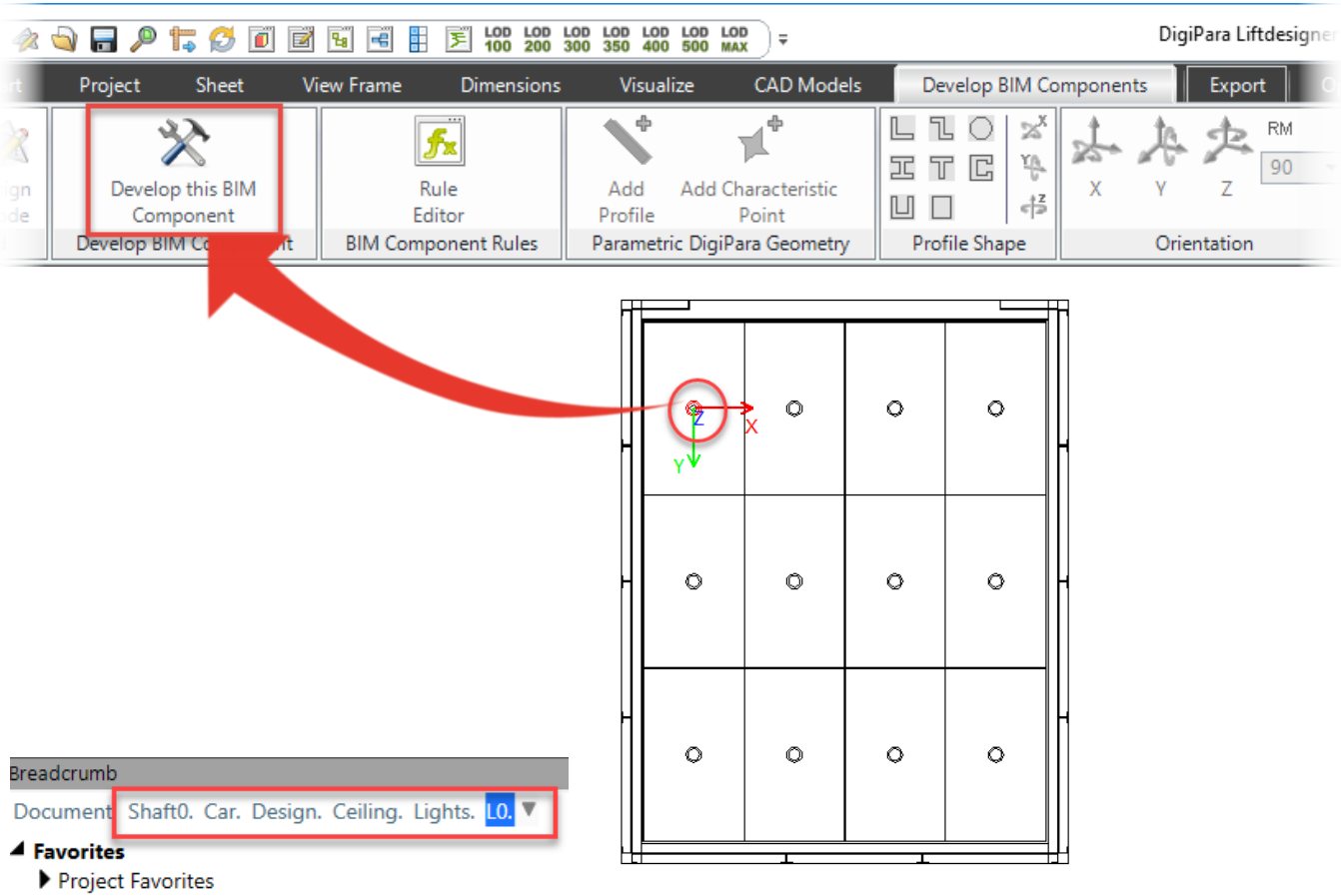
Load the Developer Work Area

Load the Developer Work Area

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

- … in DigiPara Liftdesigner via the BIM Component

Select the corresponding BIM Component in an existing view frame and click on the button: Develop this BIM Component



- [x] Add, align and position your CAD Models

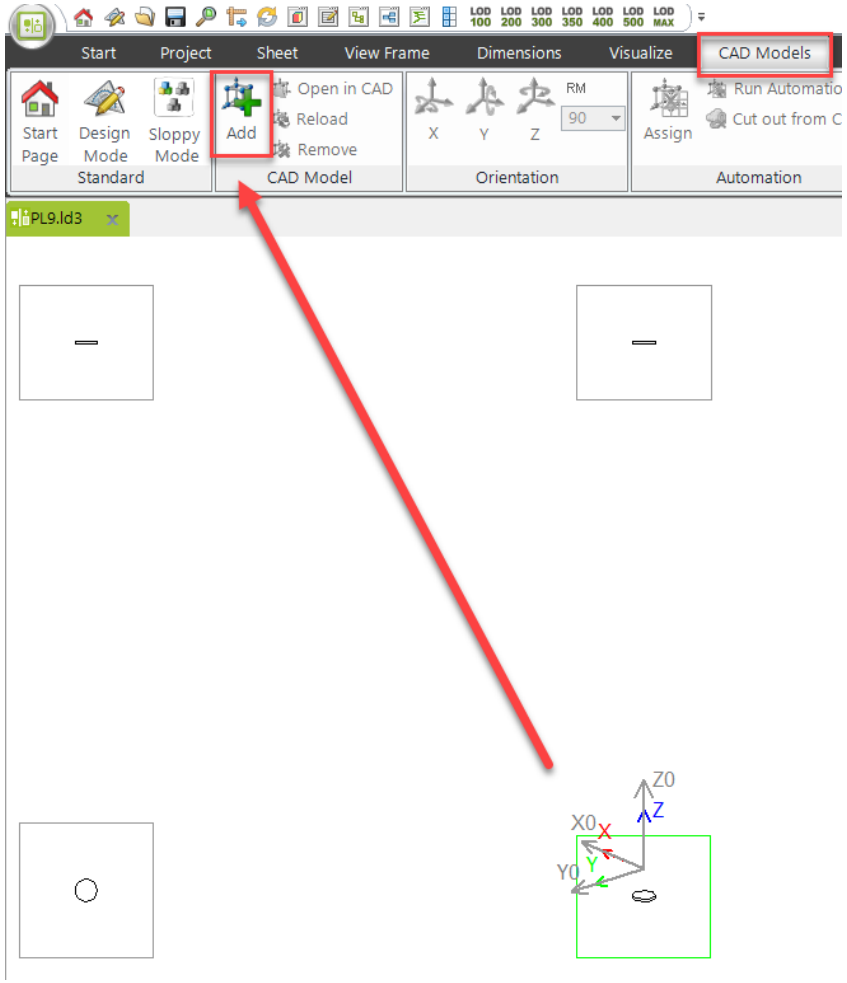
Add, align and position your CAD Models

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

digipara® liftdesigner

Add your CAD Model

- … using a Developer section view in the DigiPara Liftdesigner Developer Work Area

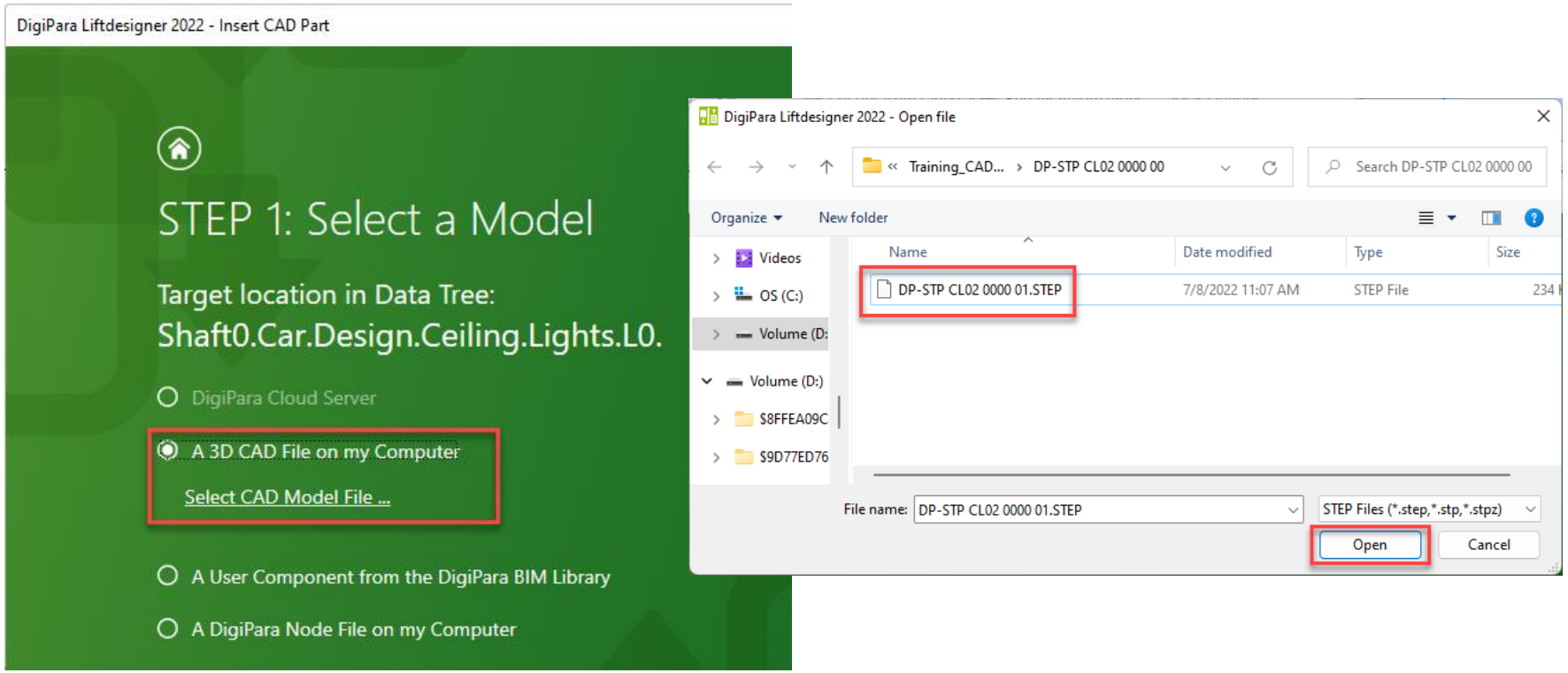


Add, align and position your CAD Models

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

Add your CAD Model

- The CAD Model is located at the base point of the BIM Component.

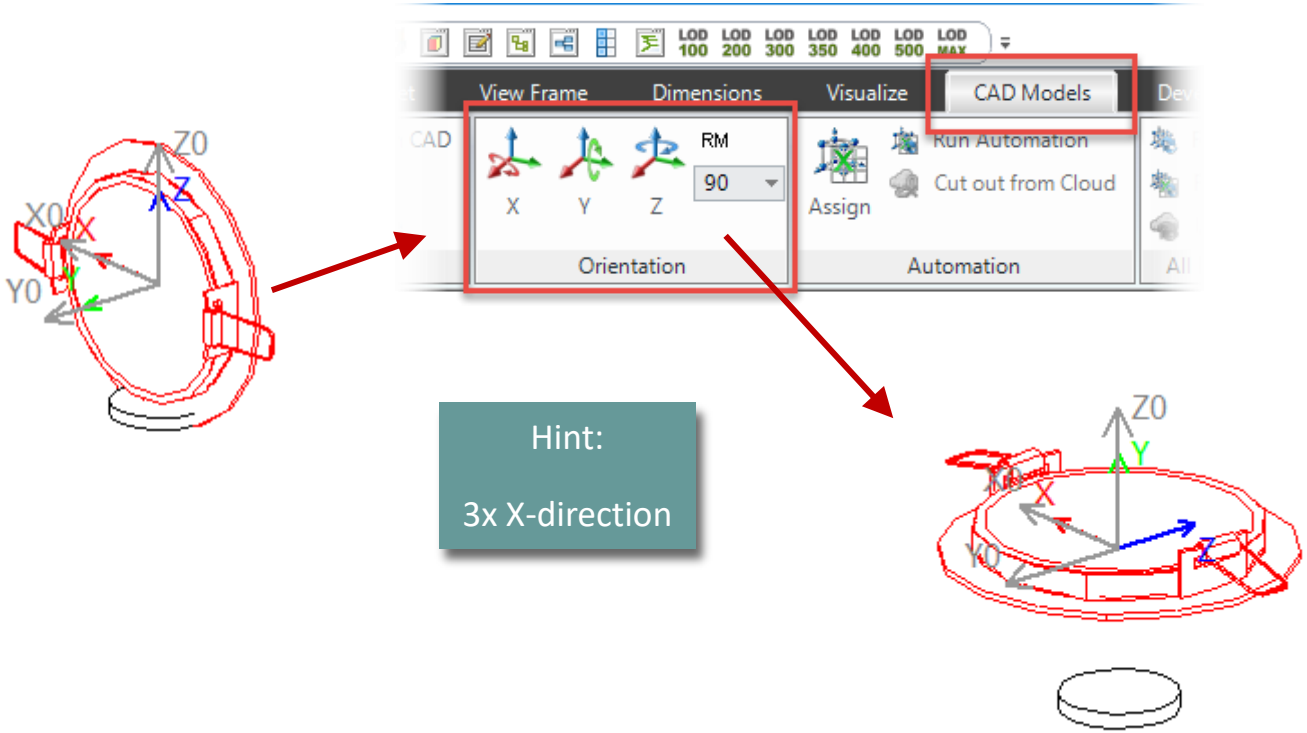


Add, align and position your CAD Models

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

Align your CAD Model

- … using X, Y and Z coordinates under the CAD Models tab



Add, align and position your CAD Models

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

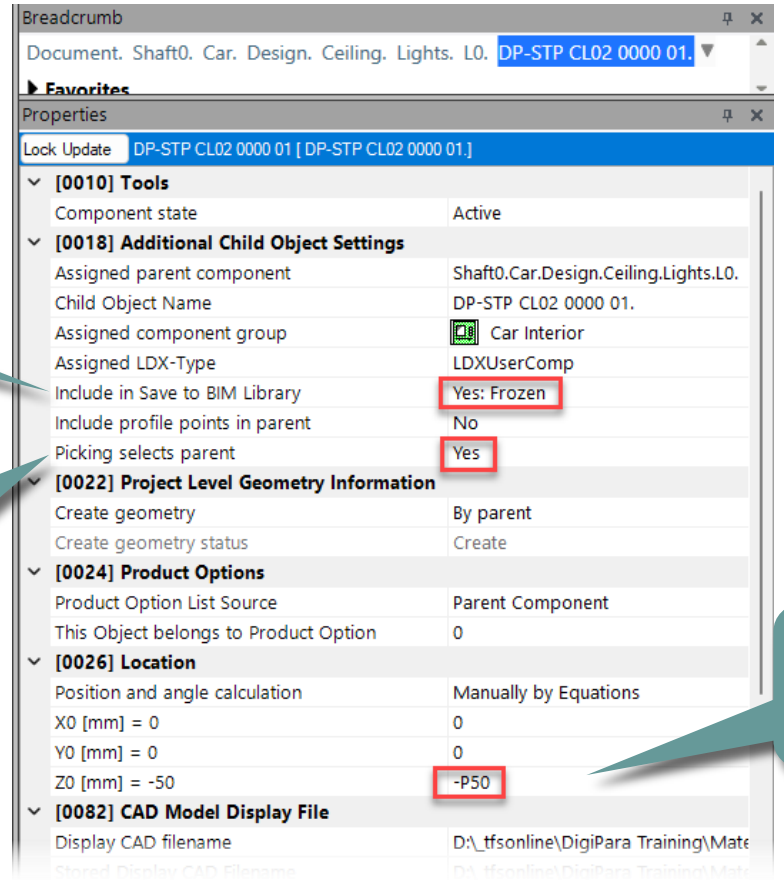
Position your CAD Model

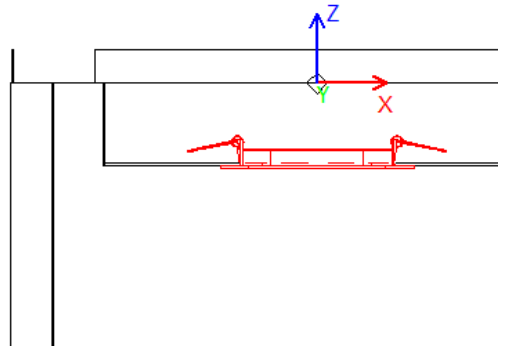
- … via a user defined base point in the Properties Window

This option must be for STEP files “Yes: Frozen” to include in saving to the database.

The parent BIM Component will always be selected in non-developer view frames.

Decorative ceiling height





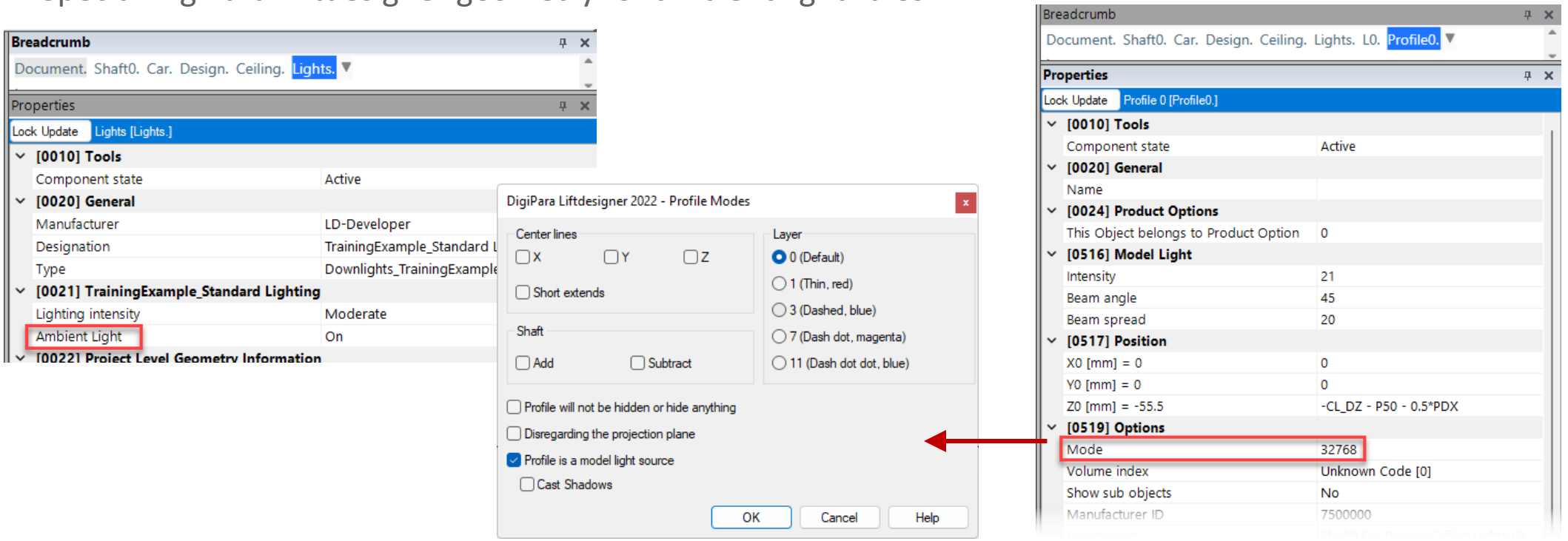
- [x] Delete unneeded DigiPara Liftdesigner profiles

Delete unneeded DigiPara Liftdesigner profiles

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

Profile 0 : do not delete

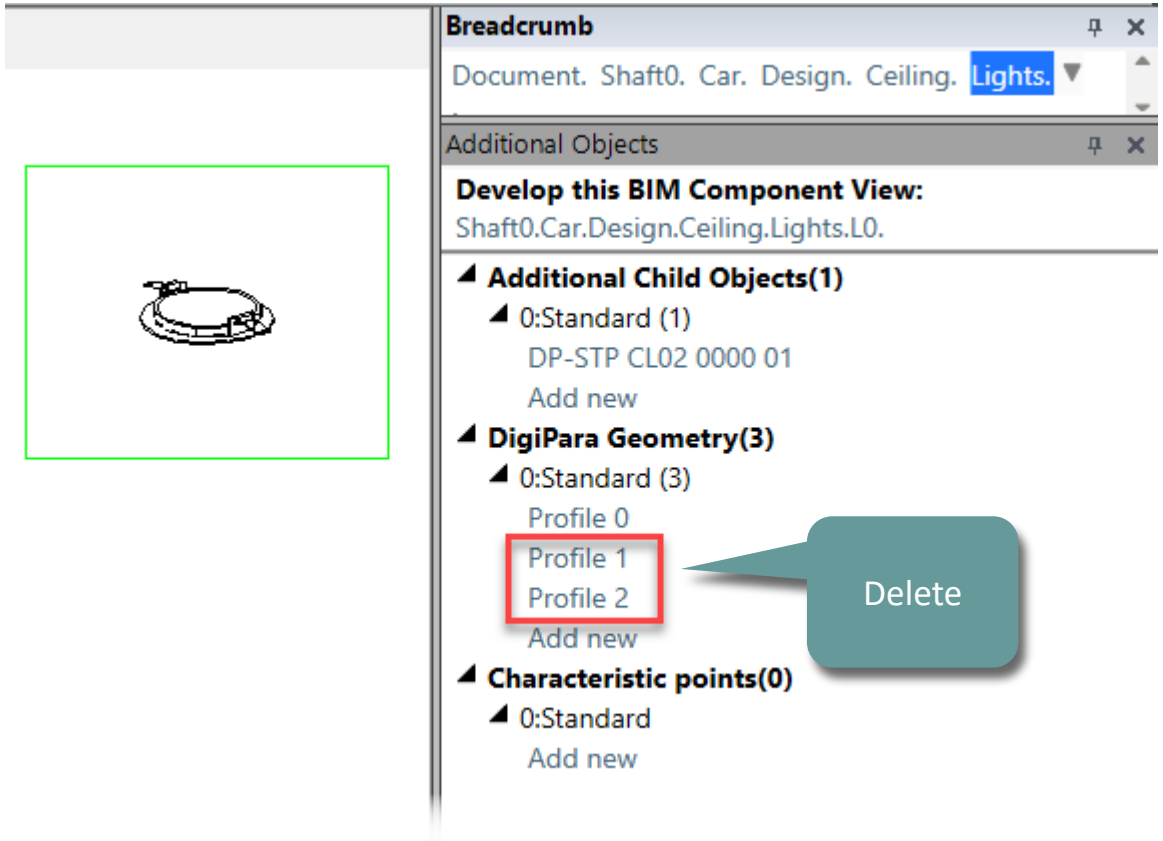
- Special DigiPara Liftdesigner geometry for ambient light rules



Delete unneeded DigiPara Liftdesigner profiles

Delete unneeded DigiPara Liftdesigner Profiles

- … via the Additional Objects window

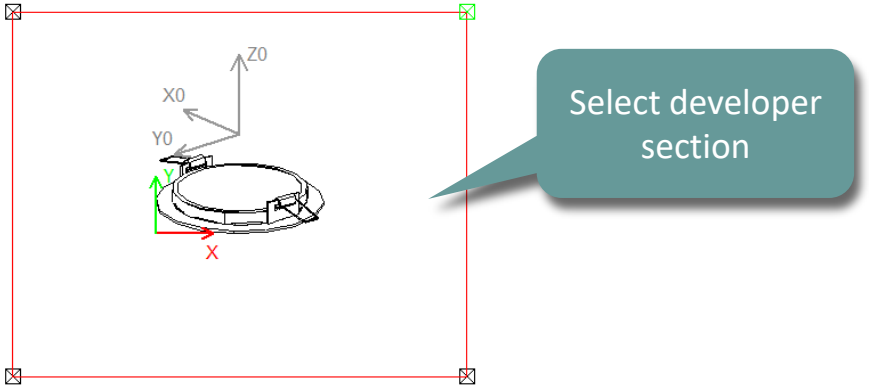


Save the BIM Component back into the BIM Library

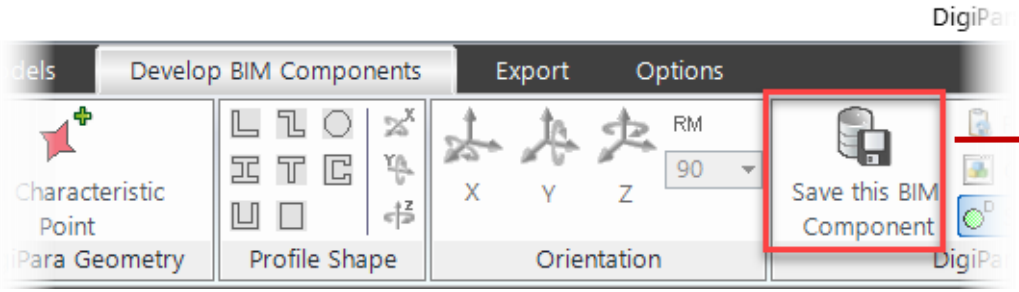
Save the BIM Component

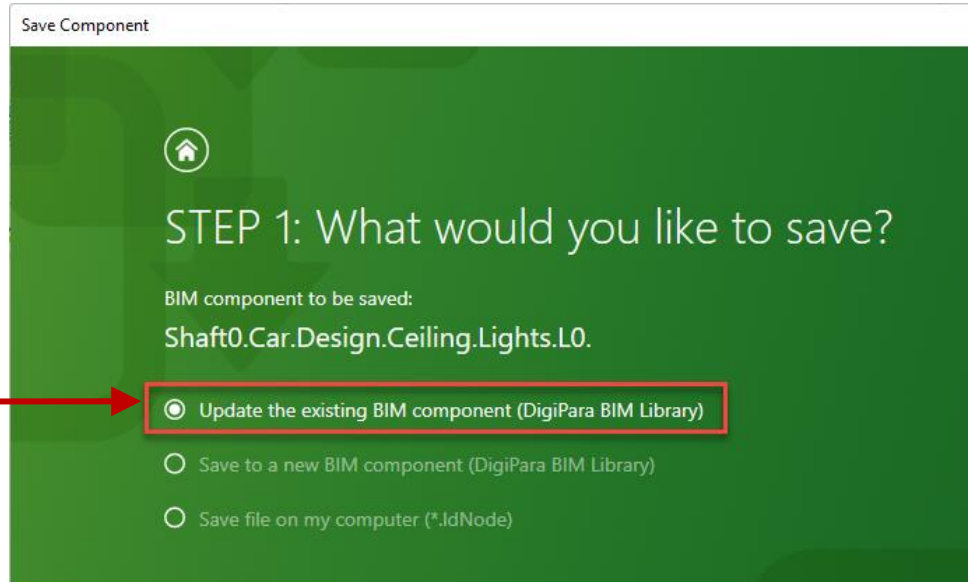
PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

Save the finished defined BIM Component



Select developer section





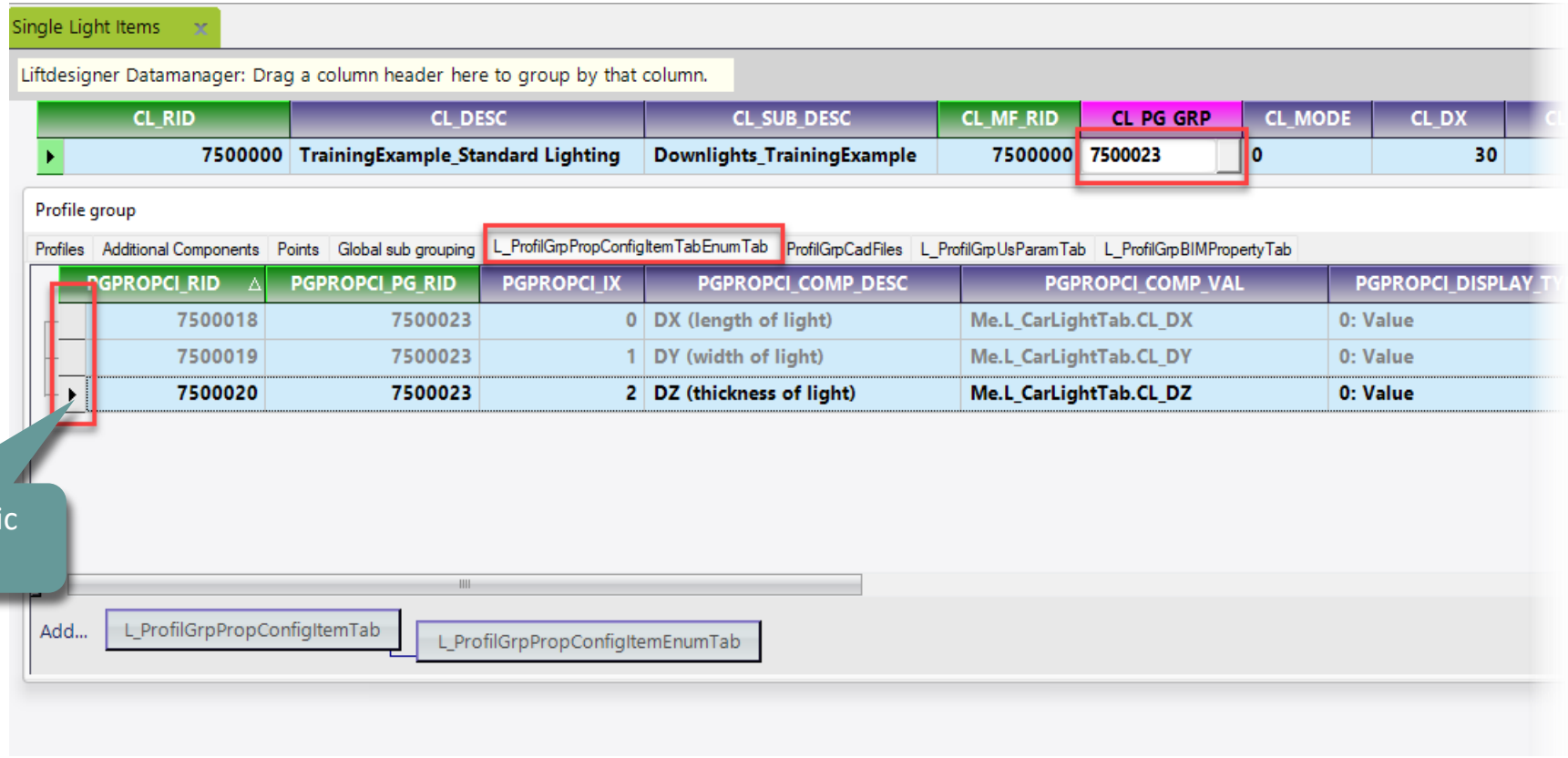
Delete unneeded Data

Delete unneeded Data

PL9.6 PRODUCT LOADING: CABIN DESIGN CEILING COMPONENTS

digipara® liftdesigner

- … in DigiPara Liftdesigner Datamanager



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PL9.7

3D Object Settings

3D OBJECT SETTINGS

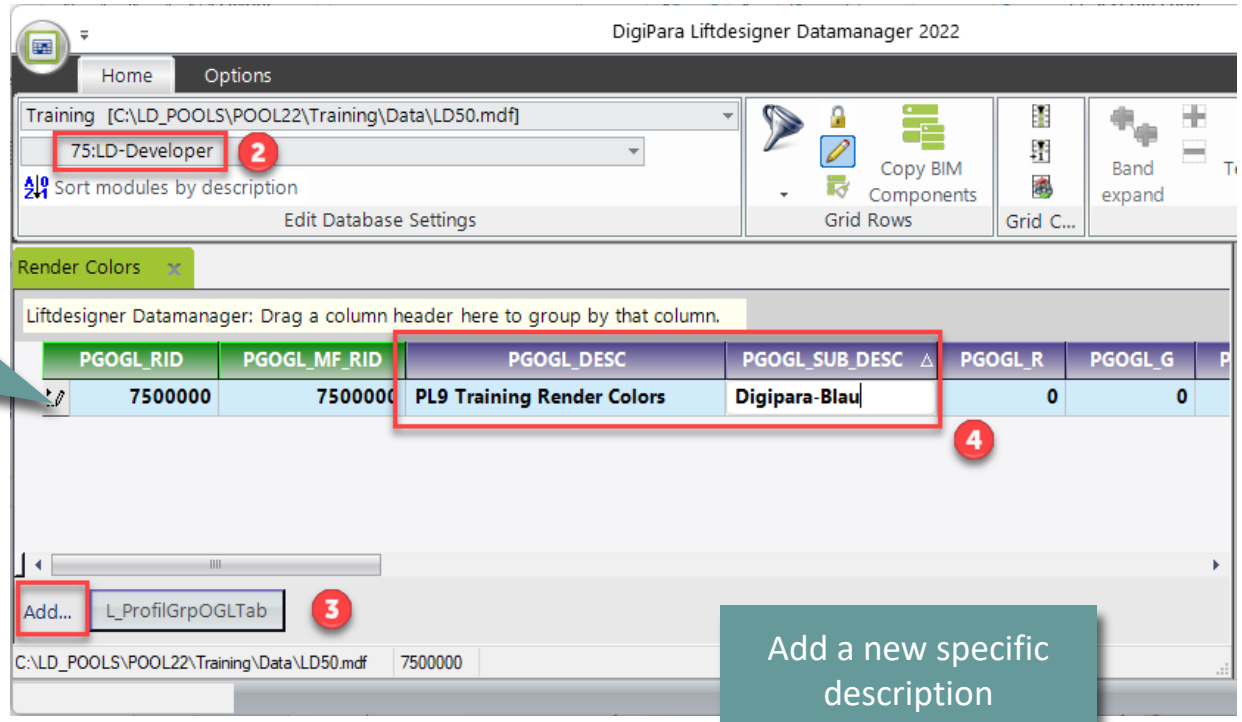
Render Colors

Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

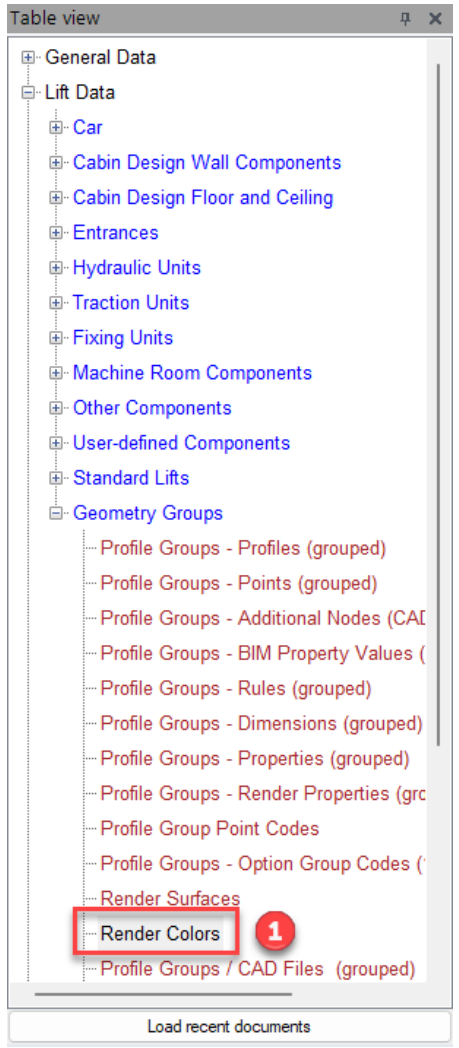
Render Colors

- …add your new custom colors via the DigiPara Datamanager



Edit Mode! Open a new table to save the new content in the database.

Add a new specific description

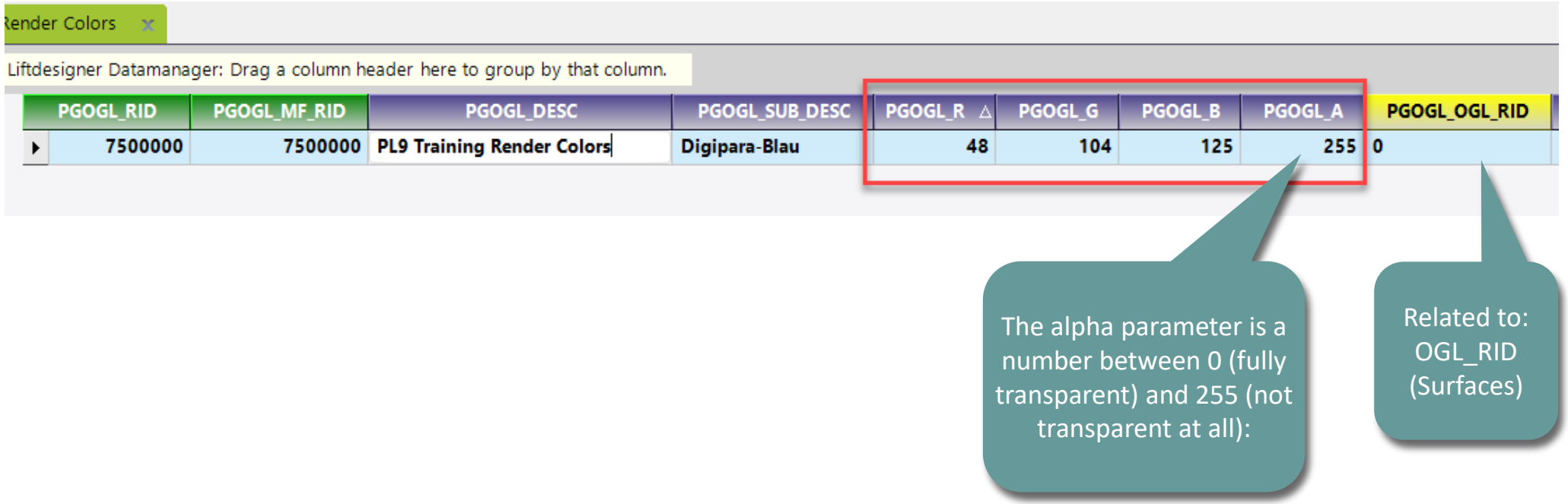


Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

Render Colors - Parameters

- RGBA (red, green, blue, alpha) Value : RGBA color values are an extension of RGB color values with an alpha channel - which specifies the opacity for a color.

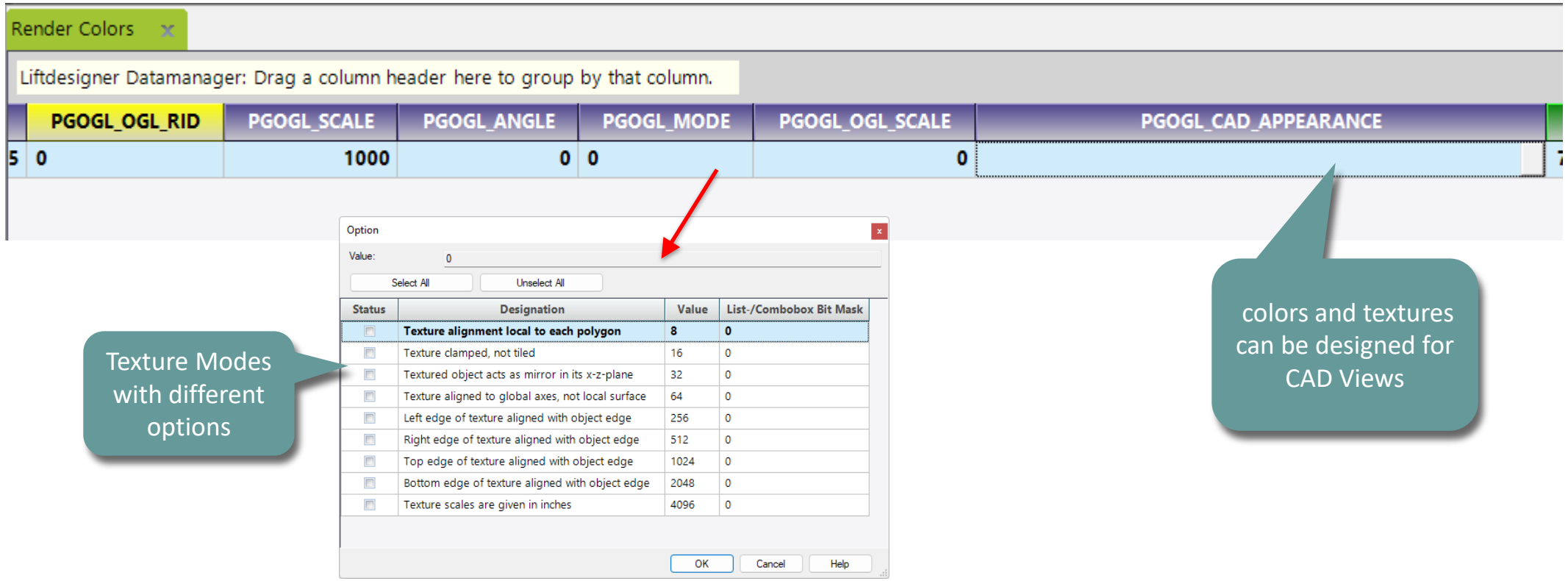


Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

Render Colors - Parameters

- RGBA (red, green, blue, alpha) Value : RGBA color values are an extension of RGB color values with an alpha channel - which specifies the opacity for a color.

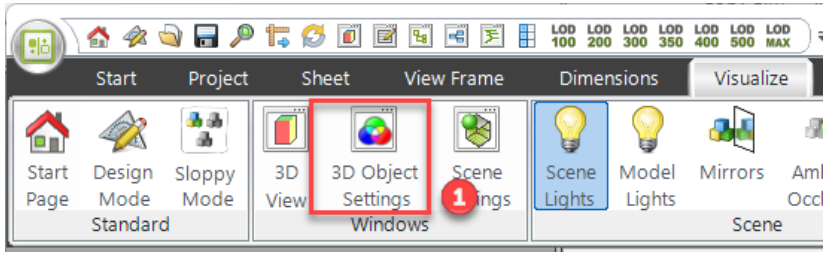


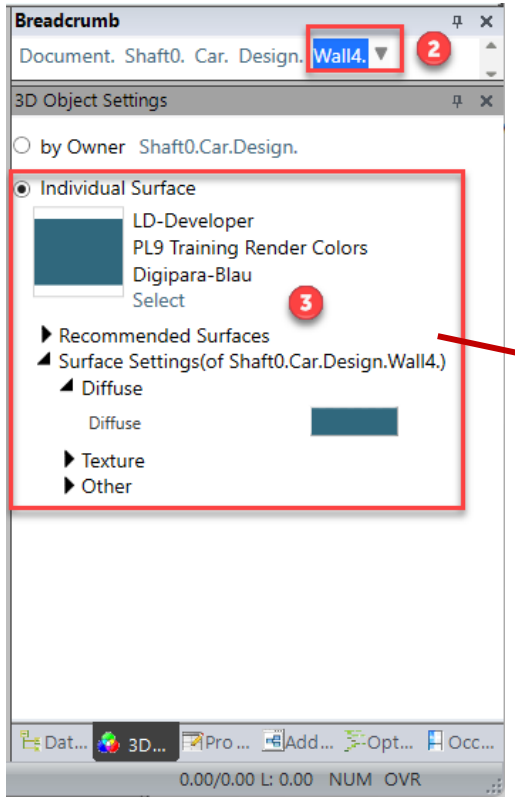
Custom Colors & Surfaces

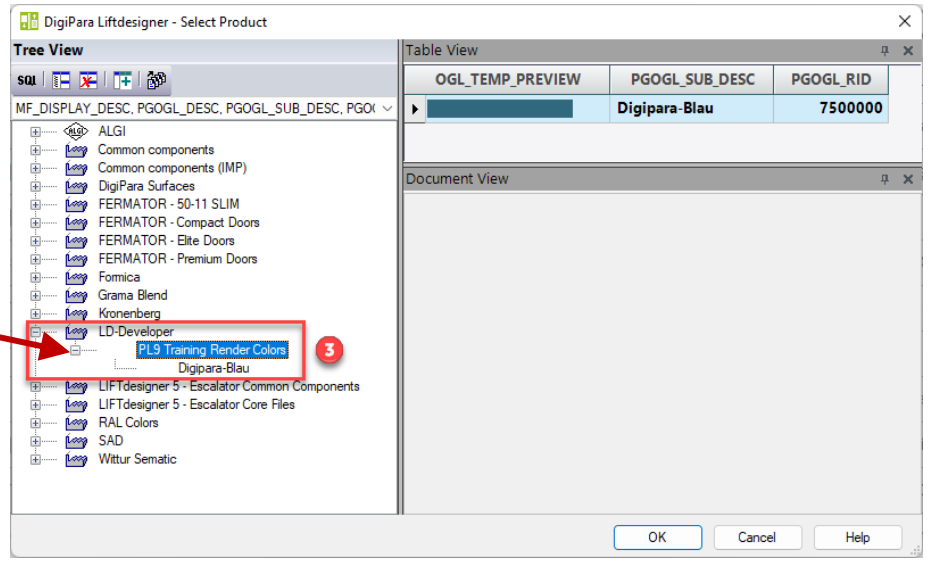
PL9.7 3D OBJECT SETTINGS

The created color is now available

- in DigiPara Liftdesigner





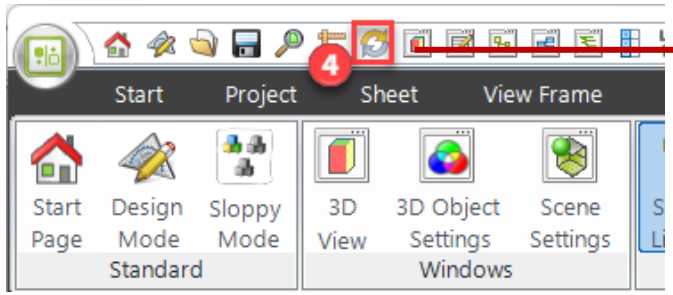


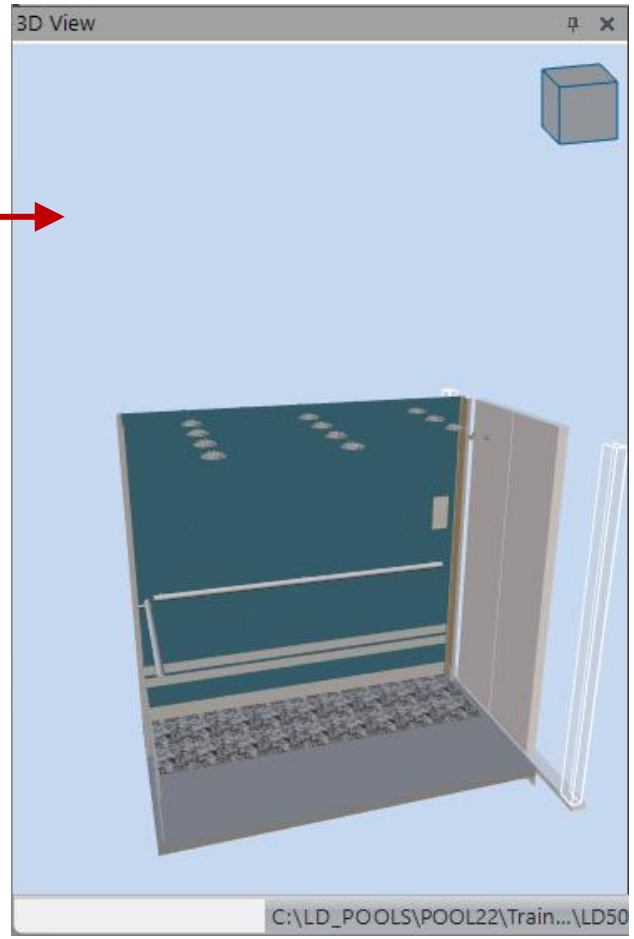
Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

The created color is now available

- in DigiPara Liftdesigner





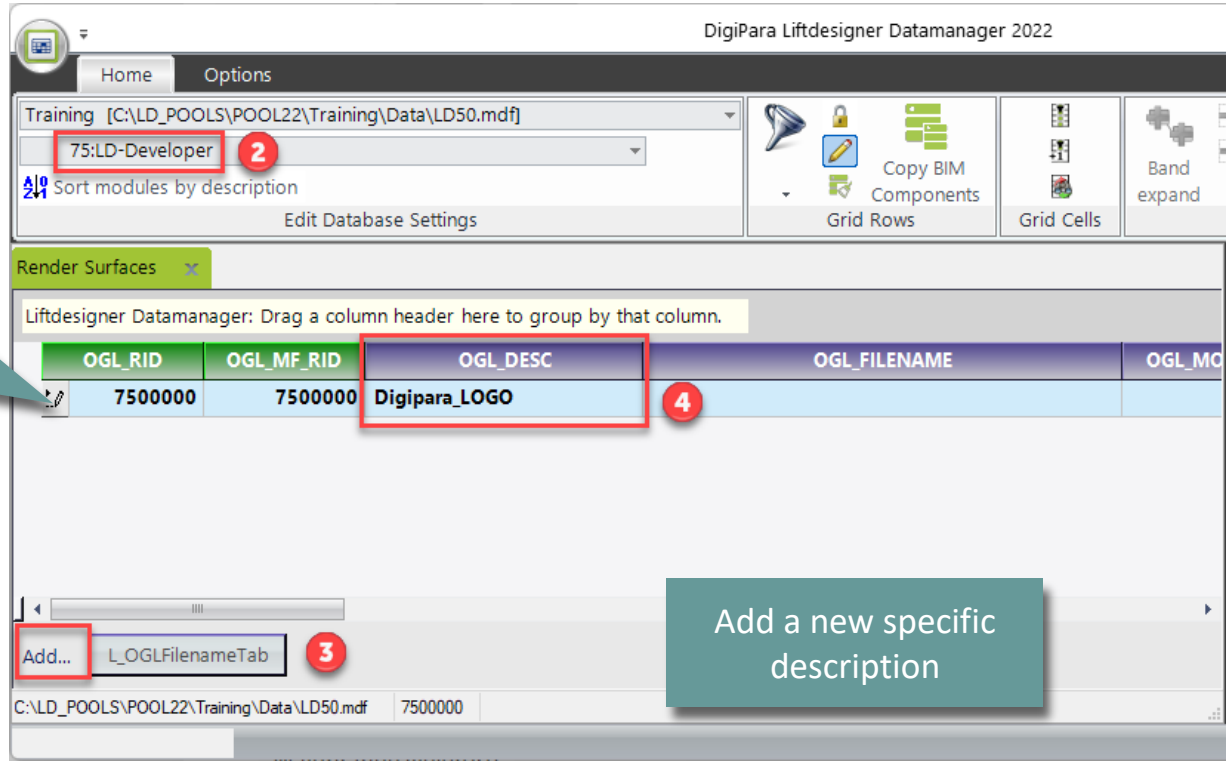
Render Surface

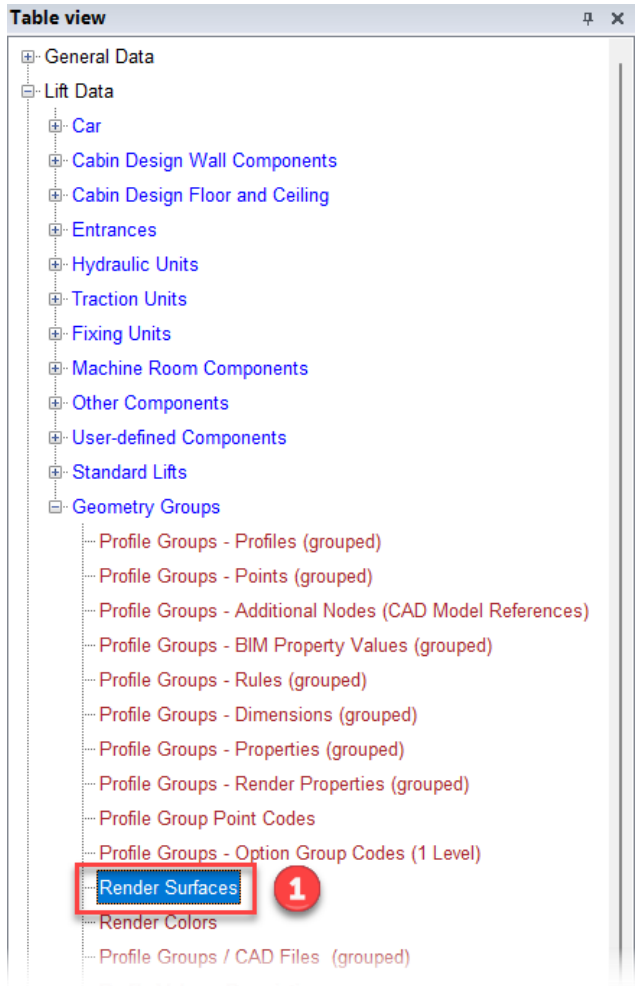
Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

Render Surface

- …add your new custom colors via the DigiPara Datamanager



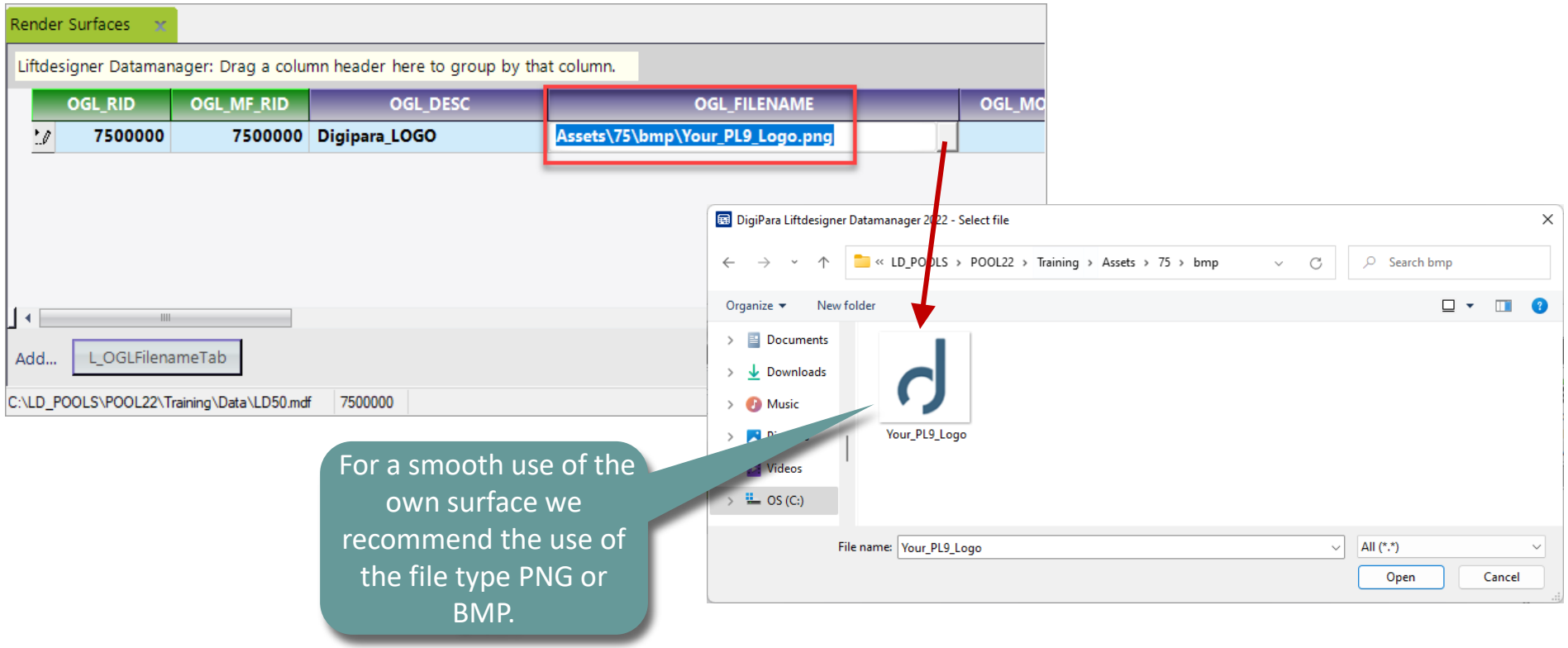


Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

You can add your **custom surface** via the DigiPara Datamanager

- Set a description for the new surface (see figure: DigiPara Logo) and select the texture file (bitmap) in your explorer

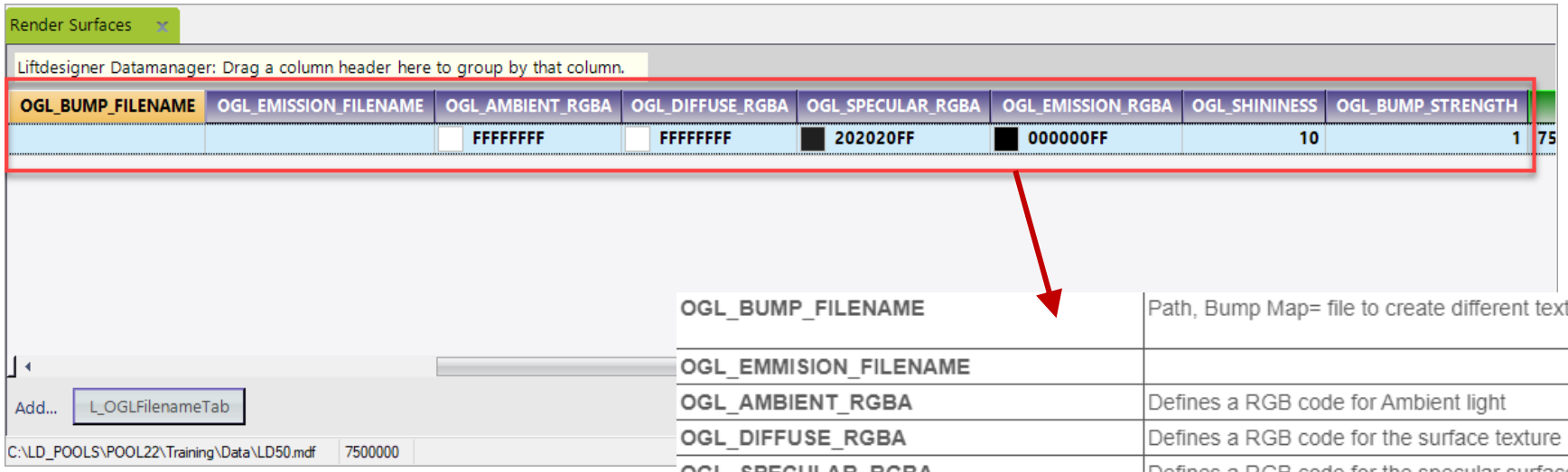


Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

Render Surface - Parameters

- in this example these options should be left as they are



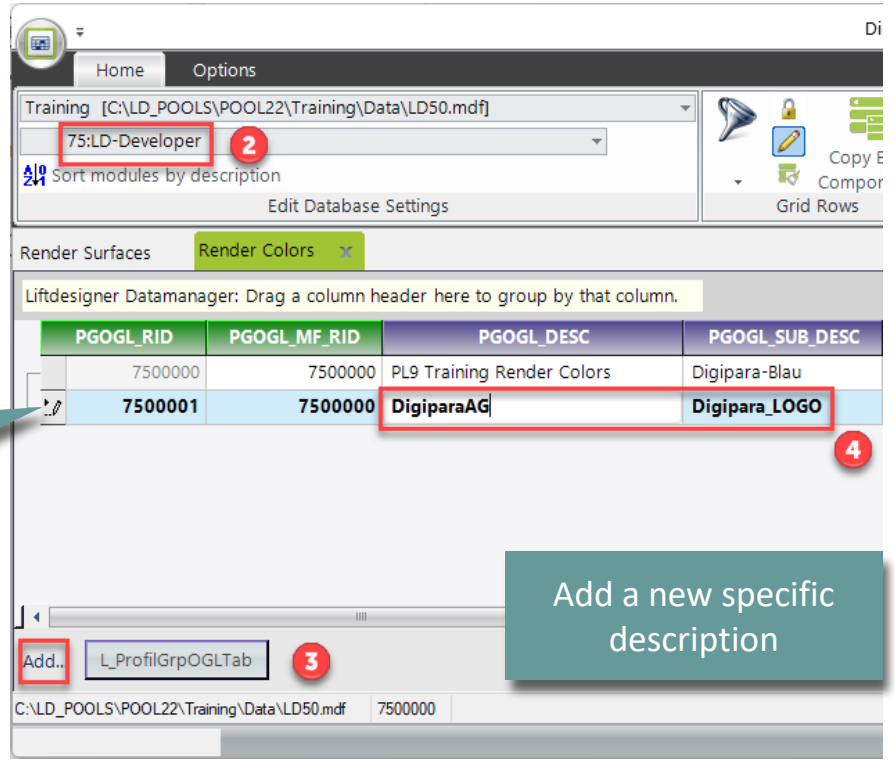
OGL_BUMP_FILENAME	Path, Bump Map= file to create different texture types: e.g. rough surface
OGL_EMMISION_FILENAME	
OGL_AMBIENT_RGBA	Defines a RGB code for Ambient light
OGL_DIFFUSE_RGBA	Defines a RGB code for the surface texture
OGL_SPECULAR_RGBA	Defines a RGB code for the specular surface
OGL_EMISSION_RGBA	Defines a RGB code for the emission surface
OGL_SHININESS	Defines luminance of the texture
OGL_BUMP_STRENGTH	Defines the opacity of the bump texture

Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

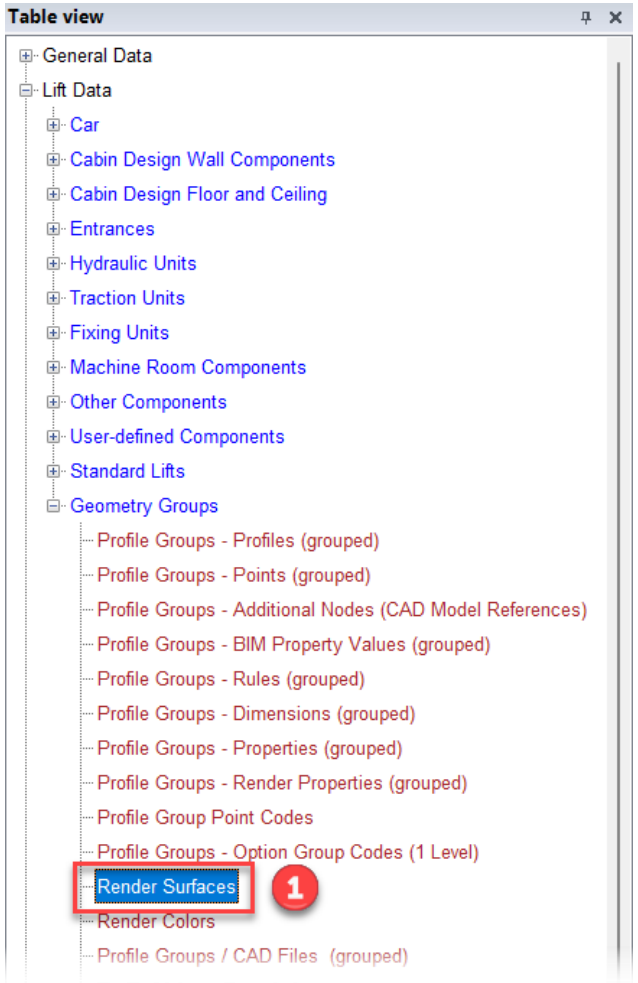
Assign the new surface to a Render Color

- via the DigiPara Datamanager



Edit Mode! Open a new table to save the new content in the database.

Add a new specific description

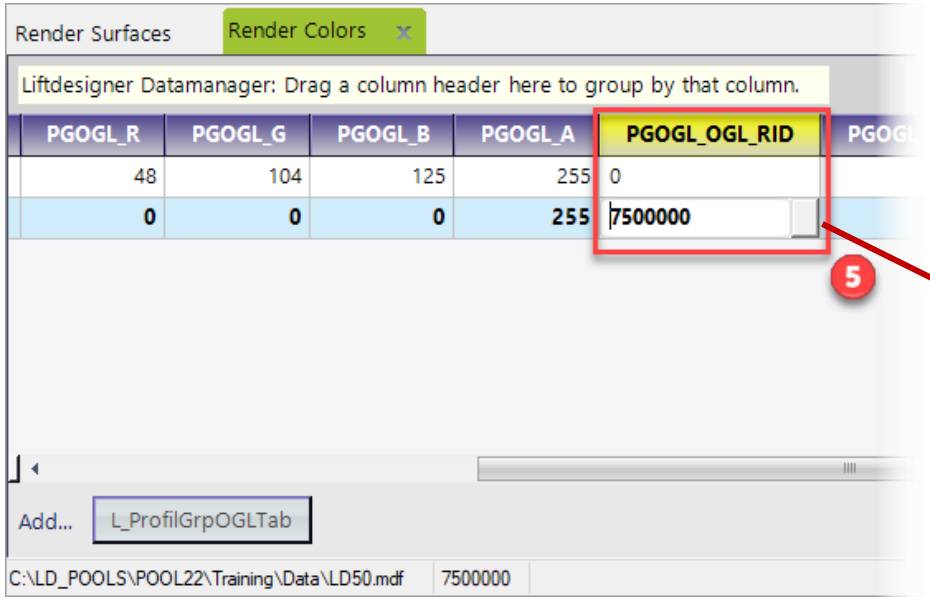


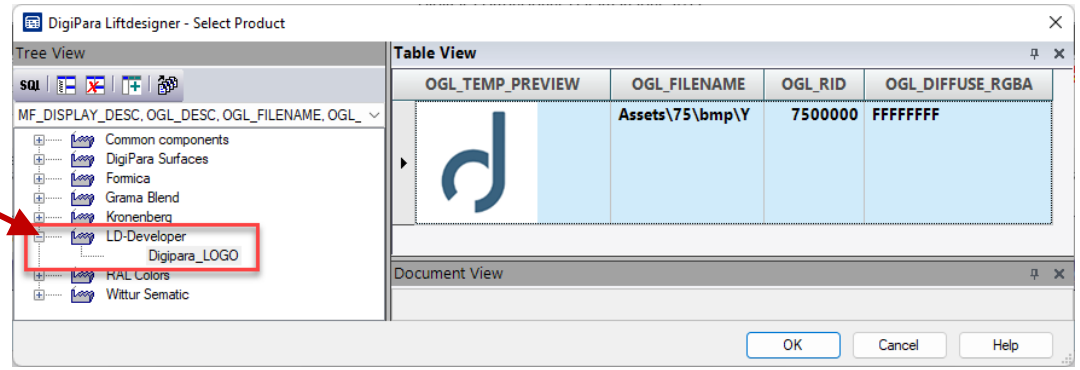
Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

Assign the new surface to a Render Color

- via the DigiPara Datamanager





Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

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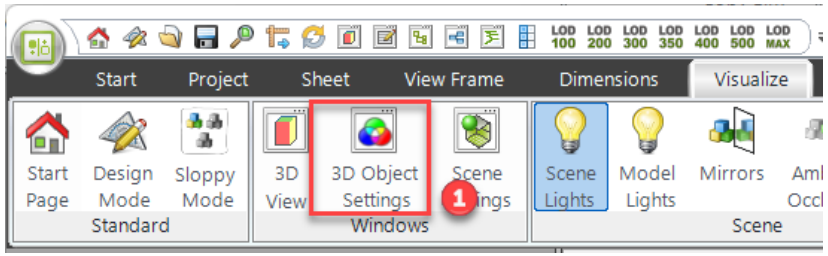
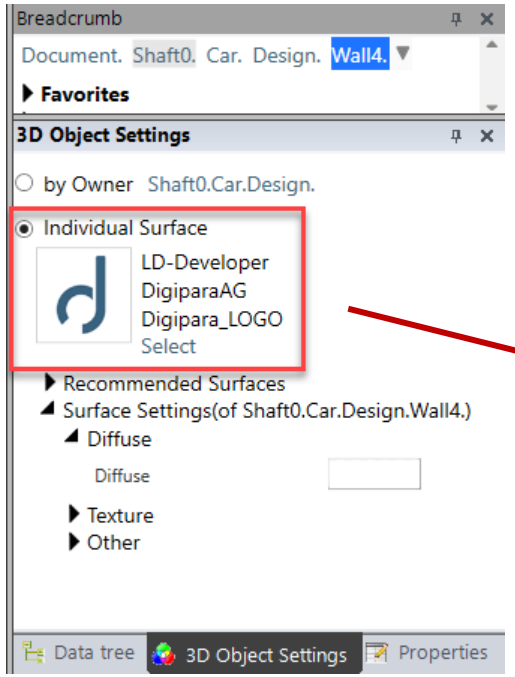
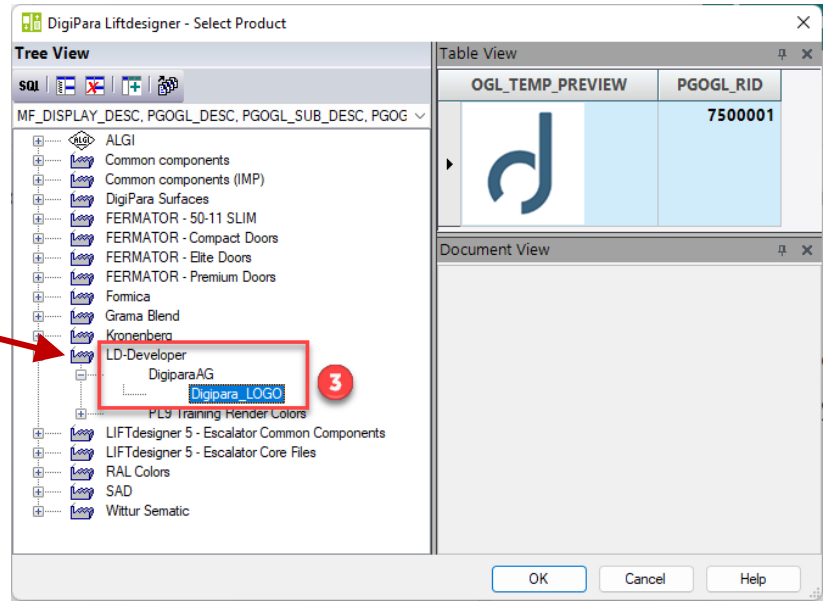
The created surface is now available

- in DigiPara Liftdesigner







Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

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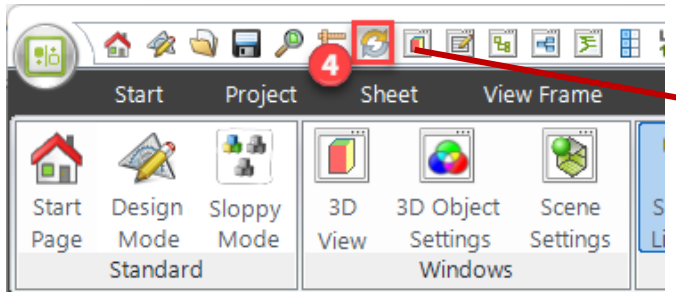
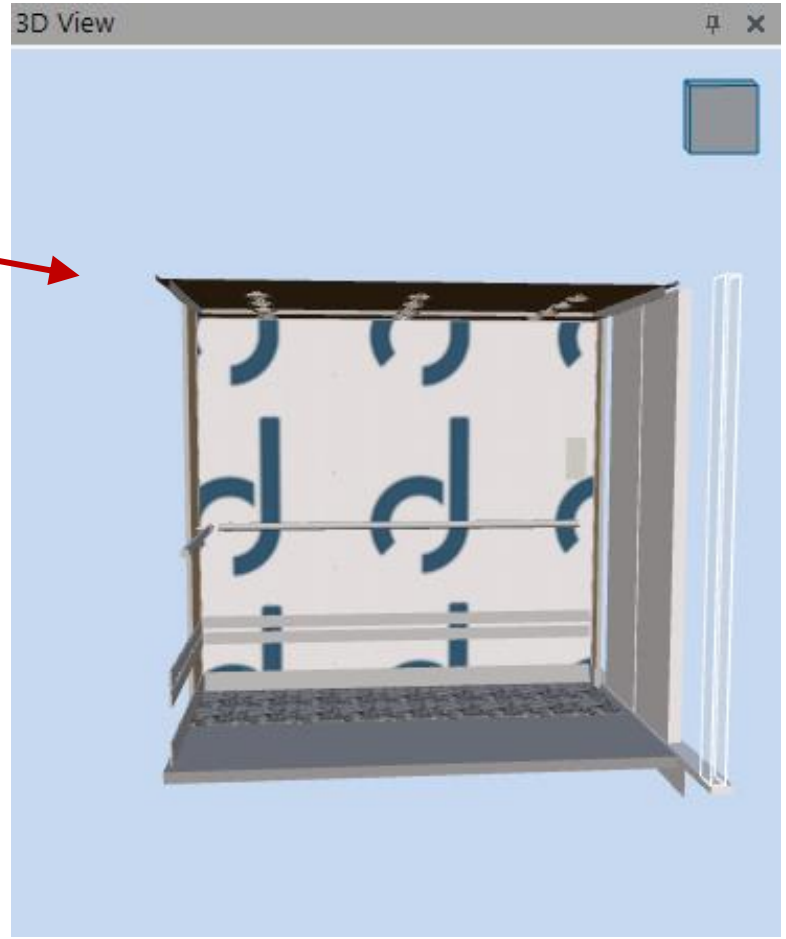
The created color is now available

- in DigiPara Liftdesigner



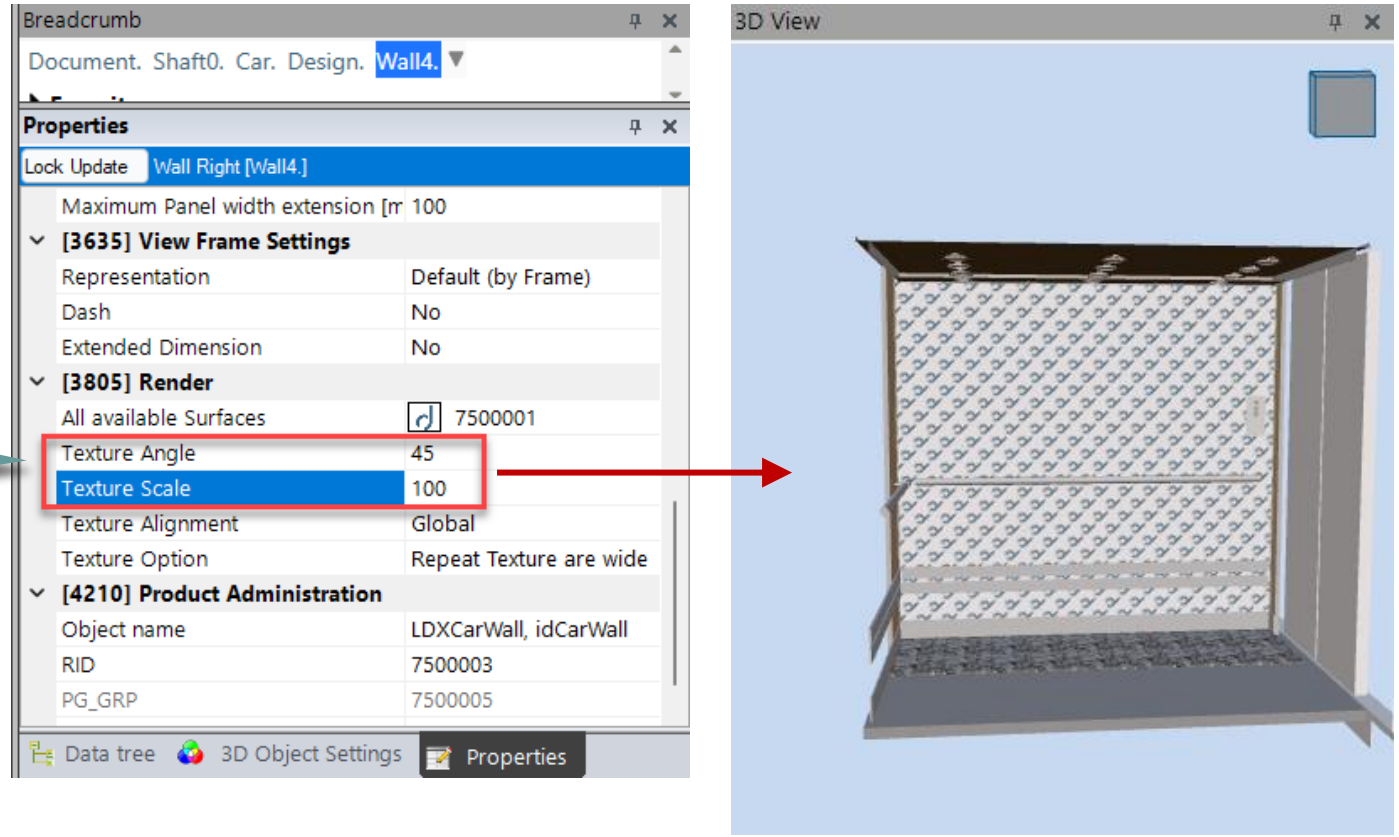


Custom Colors & Surfaces

PL9.7 3D OBJECT SETTINGS

Render

- Texture Angle
- Texture Scale



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PL9.8

Summary & custom Q&A's

Congratulations

You reached the next level

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Your instructor will be available for individual questions after the module training.

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