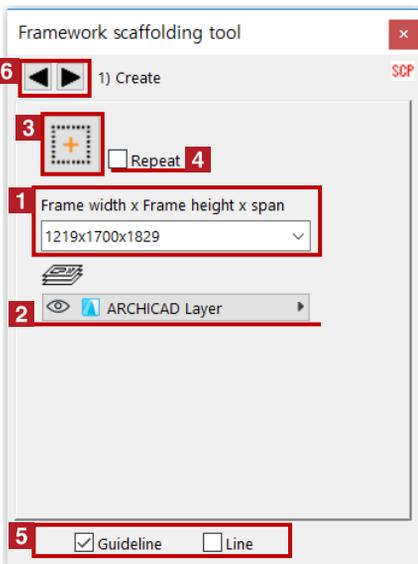# 04 Scaffold Framework

smartCON Planner for ARCHICAD

| How to call tools | From the SCP launcher ➔ Click the "scaffold frame" icon |

Select the scaffold frame icon

| How to use | After setting each item, click any position on the screen to place the scaffold frame |

Framework scaffolding tool

6 ◀ ▶ 1) Create SCP

3 [+] □ Repeat 4

1 Frame width x Frame height x span
1219x1700x1829 ▼

2 👁 🅰 ARCHICAD Layer ▶

5 ☑ Guideline □ Line

1 (Built-up frame width) x (Span length) x (Built-up frame height)

2 Select the layer to place

3 [+] Click and place it at an arbitrary position

    ● Click start point (insert base point)   ❷ Click end point

Inside(B)
Outside(F)
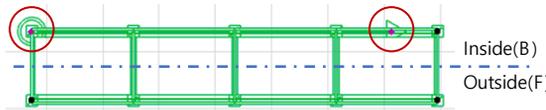
※ Scaffold frame which is drawn at integer multiple of the span length, end point does not necessarily coincide with the end.

4 Repeat checked, ☑ you can place it continuously.
(Objects created are divided into each side)

< Other dialog setting >

5 Show / hide "guide line", "line drawing" and "Baseboards"

6 Switch setting screens
You can switch setting screens with ◀ ▶

< Type of setting screen >

1) Create 2) Change format 3) Change of building frame 4) Offset 5) Footer Extension / Jack Settings 6) Bracket setting 7) Strain / Handrail setting 8) Insert / Delete 9) Total colume collection / others

| How to edit | You can modify the format and specification of the created scaffold frame |

【Format specification】 Add lift stairs · Delete top and bottom of the stairs · Add lintel etc.
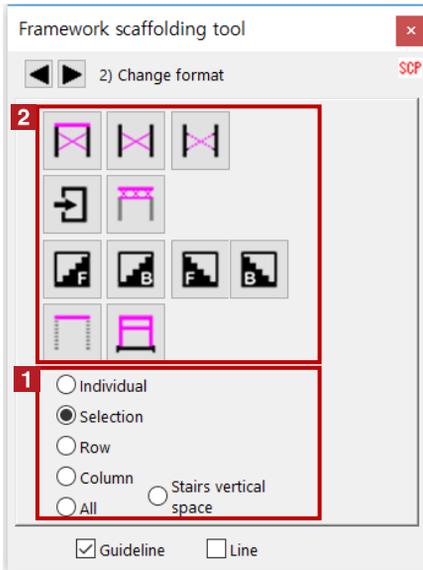
1 Specify the editing range

Select the scaffold frame that you placed and specify the edit range (individual, range, horizontal row, etc.)

Individual: Specify it in units of one squares (click around the center of the square)
Range: Click two points on the diagonal to specify the range
Place one staircase vertical: Specify when setting the lift stairs
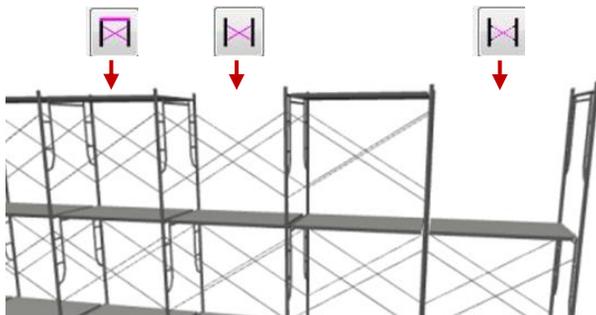
Select framework scaffold
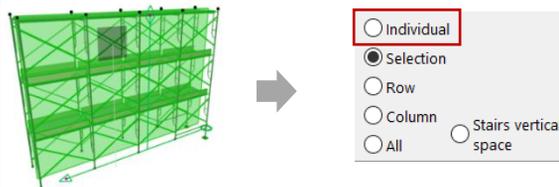
2 Select a type

After selecting type (符 符 符 etc.), click the frame to change the type
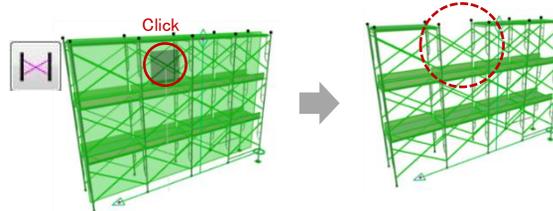
Click
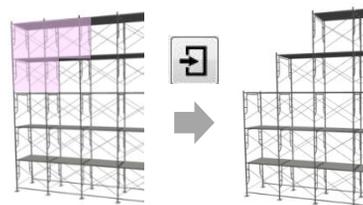
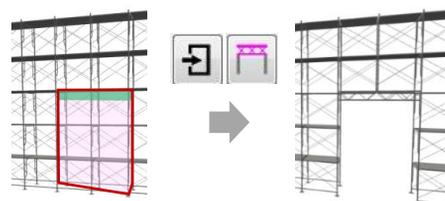※ **1** Click on the center of the square if you specify individuals

< **2** Types of Scaffold Frame >

▶ On / Off of Scaffold Frame (Mainly used in the construction initial stage)

with working platform(Default) Only cross brace No cross brace

▶ Show / Hide the opening

Opening Truss transom

Example: Opening Top

Example: Installation of opening and truss transom
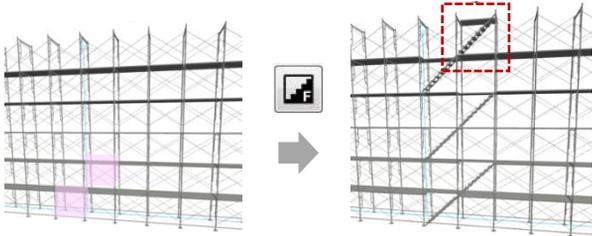
▶ Installation of lift stairs

Set up lift stairs on the outside of the scaffold

Set up lift stairs on the inside the scaffold (insertion base side)

Example: Installation of lift stairs

※ The lift stair is drawn with a set of working platform

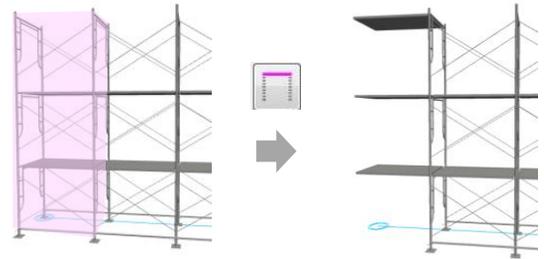▶ Show working platform only · Show handrail only
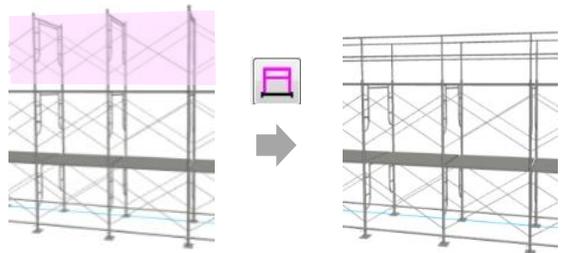
Show working platform only
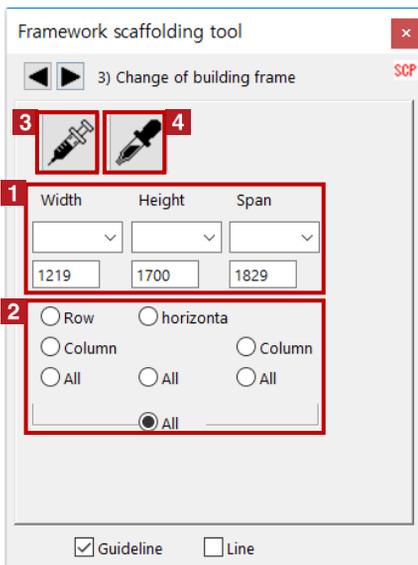
Change from frame to handrail

Example: Show working platform only

Example: Change from frame to handrail

【 Dimension setting 】 Change of span length · Change of frame width etc.

1 Select the placed framework scaffolding, and change the "width", "high", "span"

2 To specify the editing range
When you select the "all" that an item under, such as in "width", will change the "width" of the entire framework scaffolding

3 When you select the "all" at the bottom, all "width", "high", "span" will be changed
After the click, and then click the frame you want to change

※ If you change the span length of the intermediate portion, the position of the end portion is changed, the number of spans is more than an end point
It will be added to the position

Select the framework Scaffolding Change and width
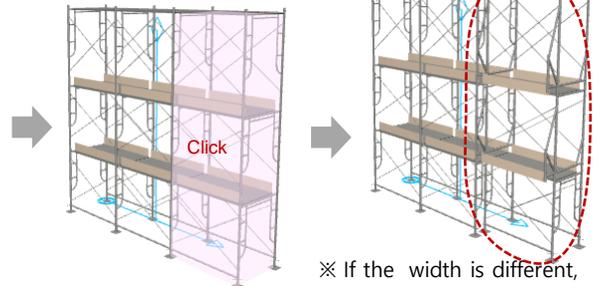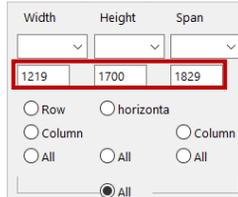
Click

※ If the width is different, Stage at the boundary will be widening frame
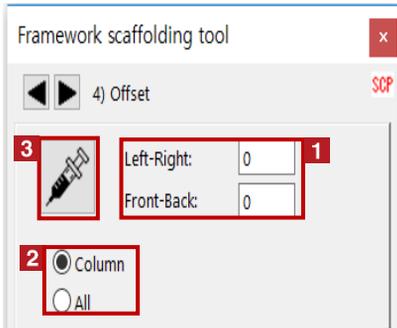
< Other dialog box >

Size copy from the arranged scaffold
After selecting the, if you click the click on the frame of the scaffolding that you want to copy, **1** It will be reflected in the span, etc.

【 Offset setting 】 Framework tool

Framework scaffolding tool ✕

◀ ▶ 4) Offset   SCP

3 [syringe icon]   Left-Right: 0   **1**
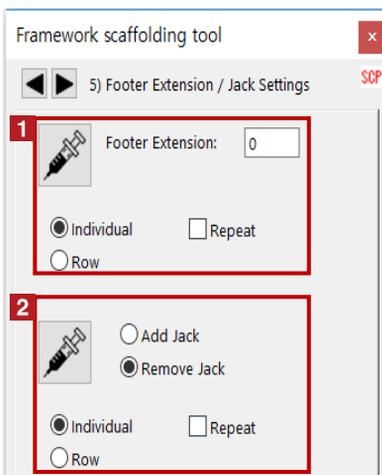Front-Back: 0

2 ◉ Column
○ All

1 Select the placed framework scaffolding, enter the amount of movement of the "left and right", "back and forth" (minus Allowed)

2 To specify the editing range

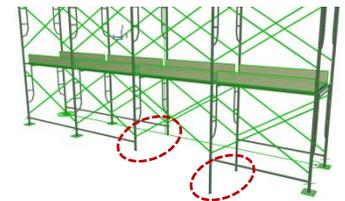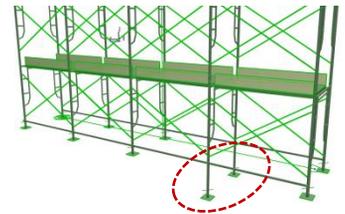**3** [syringe icon] After the click, and then click the frame you want to change
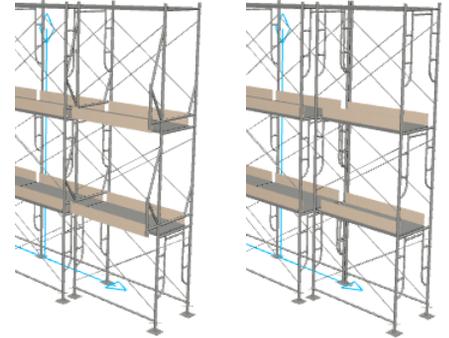
※ Frame is added to the starting point side of the clicked frame
※ If you do not set the offset, will be the widening frame representation
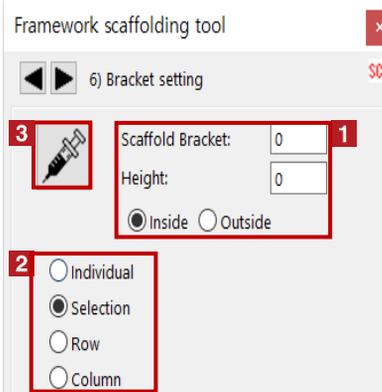
【 Footer / Jack setting 】 Show / hide jack base · Extension of footer

Framework scaffolding tool ✕

◀ ▶ 5) Footer Extension / Jack Settings   SCP

1 [syringe icon] Footer Extension: 0
◉ Individual   ☐ Repeat
○ Row

2 [syringe icon] ○ Add Jack
◉ Remove Jack
◉ Individual   ☐ Repeat
○ Row

1 Footer Extension
Select the placed framework scaffold, after entering the extension length, and the editing range (Specific and horizontal line),
[syringe icon] After the click, and then click the frame you want to stretch
※ jack base of length that is displayed in the initial setting is 0

2 Jack Settings
Select the placed framework scaffolding, the presence or absence of a jack,
To specify the editing range (individual and horizontal line),
[syringe icon] After the click, and then click the frame you want to change

【 Bracket scaffold setting 】 Setting up a scraping scaffold

Framework scaffolding tool ✕

◀ ▶ 6) Bracket setting   SCP

3 [syringe icon]   Scaffold Bracket: 0   **1**
Height: 0
◉ Inside ○ Outside

2 ○ Individual
◉ Selection
○ Row
○ Column

1 Setting bracket width
Select the placed framework scaffolding, enter the height", "bracket ", specifies the mounting direction

2 To specify the editing range

3 [syringe icon] After the click, and then click the frame you want to place
※ If you want to delete the "bracket Dehaba = 0",   If you do not want to display the handrail brackets
We have a "bracket = -350" and "minus numerical value"

Bracket
Height
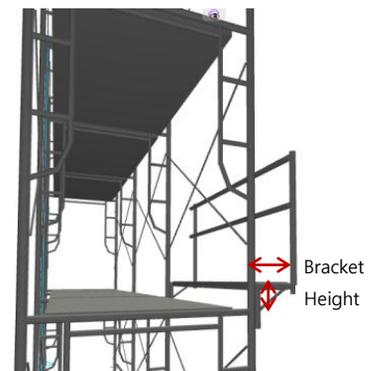
## 【 Brace / Guardrail setting 】Installation of guardrails · Installation of end stoppers
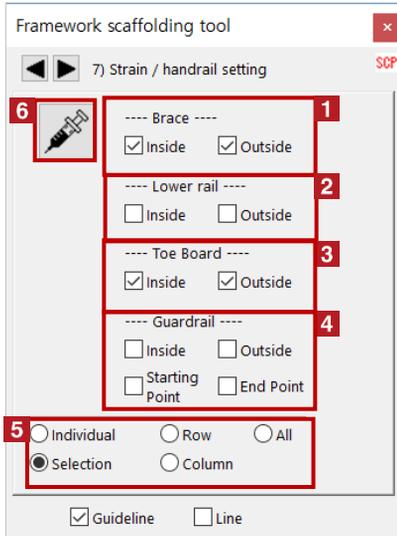
1 Installation of Brace (for display only one such intersection)
Select the side (inside and outside) to install the Brace

2 Installation of the lower crosspiece
Select the side (inside and outside) to install a handrail

3 Installation of baseboards
Select the side (inside and outside) to install the baseboards

4 Installation of handrail (at the time of construction of the end stopper)

5 Choose to install a handrail side (inside and outside) and (the starting point side and end side)

6 To specify the editing range
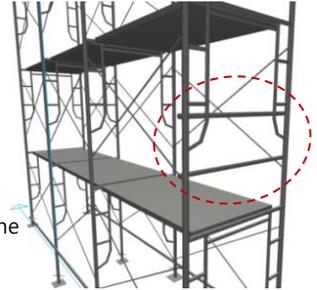
 After the click, and then click the frame you want to change

【 Insert / delete 】Additional installation and removal of installed parts
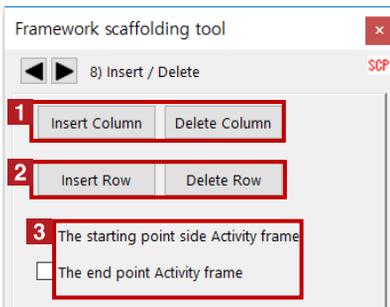
1 Insertion or deletion of scaffold frame (Column)

2 Insertion or deletion of scaffold frame (Row)

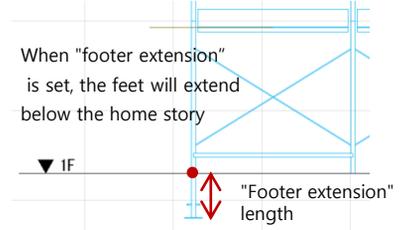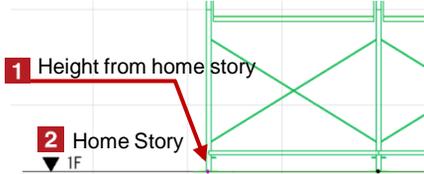**3** Deletion of the end frame (start and end points side frame) Use the connecting portion of multiple objects

【 Quantity totalizing - other 】 Aggregation of the scaffold member, all scaffolding batch rendering quality settings
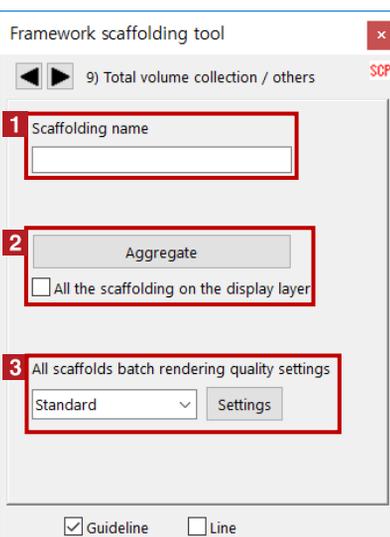
1 Input of the scaffold name (free input)
It will be the scaffold name at the time of the quantity totalizing

2 Quantity totalizing (saved in .csv format)
The scaffold to be aggregated and individually selected and click the "aggregate"
☑ And put, you can also all scaffold bulk aggregate on the display layer

3 All scaffolds batch rendering quality settings
You can change the drawing of all of scaffolds are arranged
Select from Normal, detailed and simple line drawing block and click the "Settings"

Installation reference

The installation reference height of the scaffold is the bottom of the scaffold

0.0 1

Linked Stories:

1. Story 2

1 Height from home story

2 Home Story
▼ 1F

When "footer extension" is set, the feet will extend below the home story

▼ 1F

"Footer extension" length
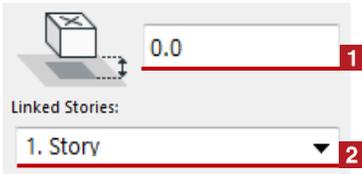
Change shape of frame

Clicking Hotspot to change the number of stages and spans of the frame

Click the red Hotspot ➜ It is possible to change the starting point and the ending point in the height direction and the horizontal direction with [vertex] of the pet palette

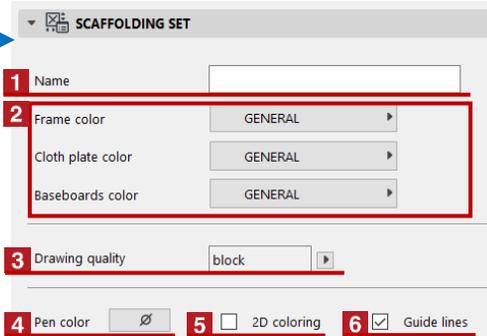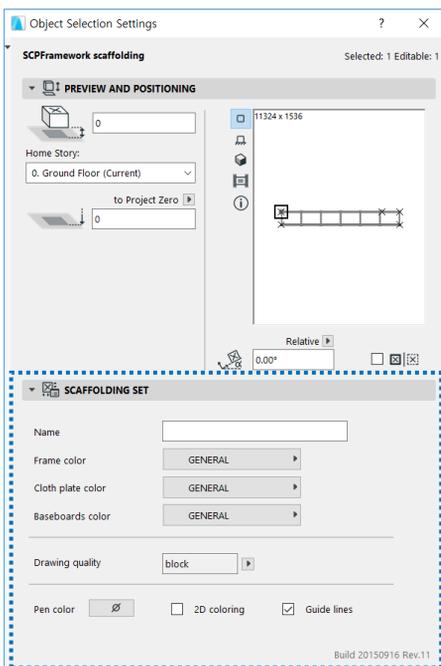Click the black Hotspot ➜ You can move the scaffold framework with [Move] on the pet palette

▶ 3D

▶ 2D
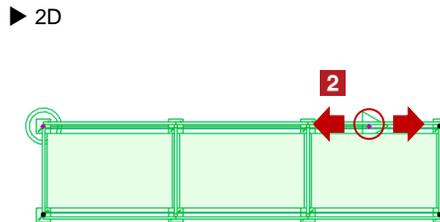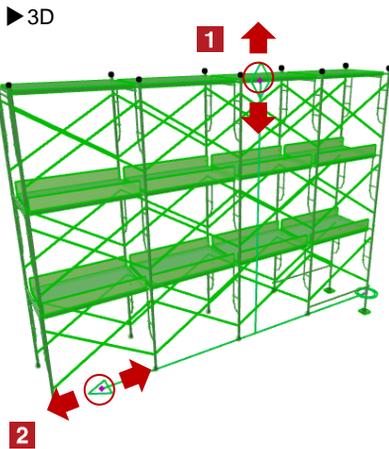
1 Changing the number of stages

2 Changing the span

Object setting

Select the framework and change various settings with "Object setting (Ctrl + T)"

Object Selection Settings

SCPFramework scaffolding — Selected: 1 Editable: 1

PREVIEW AND POSITIONING

Home Story:
0. Ground Floor (Current)

to Project Zero

Relative

SCAFFOLDING SET

Name	
Frame color	GENERAL
Cloth plate color	GENERAL
Baseboards color	GENERAL
Drawing quality	block
Pen color	Ø
	2D coloring
	Guide lines

Build 20150916 Rev.11

SCAFFOLDING SET

1 Name	
2 Frame color	GENERAL
Cloth plate color	GENERAL
Baseboards color	GENERAL
3 Drawing quality	block
4 Pen color	Ø
5 □ 2D coloring	6 ☑ Guide lines

1 Input of the scaffold name

2 Change frame color · cloth board color · width tree color

3 Setting the drawing quality of the scaffold

4 Drawing color setting of framework scaffold on 2D screen

5 Coloring of framework scaffold on 2D screen

6 Change display of guide line