



Door/Window Opening

Beam

Slab

Steel Structure

Staircase

Finishes

Prefabrication

Foundation

Excavation

Others

Custom Element

Custom Quantity

Segmentation: Foundation, Column, & Wall



Progress Claim Flow





2

Define Segmentation

- Step 1: New Element List → Construction Zone/Subcontracting/Progress Claim/Custom
- Step 2: Choose Specific Element for the Scope
- Step 3: Input Name



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3



Draw Segmentation – Specific Element



Case: Vertical Element Work Based on Entities



Vertical elements such as pile caps, columns, and walls are constructed individually at specific points.

Segmentation by area is ineffective for these elements, requiring users to manually draw regions that cover specific components.

The **Set Associated Segmentation** feature allows zones to be defined per entity. For walls, it can be combined with the **Break** function to enable more precise zone creation.



Draw Segmentation – Specific Element Method

- Step 1: Entity Display Settings → Tick necessary elements
- Step 2: Turn on Cross-Element Select



6

Draw Segmentation – Specific Element Method

- Step 3: Set Associated Segmentation and block the required entities
- Step 4: Choose the desired work progress



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If there are entities that are not included,

- Step 5: Select the target entities
- Step 6: Set Associated Segmentation and choose "Null"





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Draw Segmentation – Mix with Other Segmentation

- Step 7: If there are further classifications, you can use additional **but different** segmentation, such as Sub-Contracting, etc.
- Step 8: Set each element's segmentation .







E Draw Segmentation – Define Work Done



Case: Vertical Element Work in Stages



Previously, **Set Associated Segmentation** was used for vertical elements, such as pile caps, columns, and walls.

If these elements are constructed in multiple phases, segmentation must be further refined using **Define Work Done**.

This function allows work progress to be tracked as a percentage (%) over multiple periods.



Draw Segmentation – Define Work Done

- Step 1: Create Progress Claim for several periods
- Step 2: Define Work Done → Set percentage (%) for each period



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Quantity Reporting



Quantity Reporting

- Step 1: After Calculate, go to View Quantity by Category
- Step 2: Set Classification and Quantity → Tick the desired segmentation (ex: Progress Claim).
- Step 3: Element Quantity → Tick the necessary quantities



14

Quantity Reporting

- Volume of concrete and area of formwork are now separated by each progress.
- Total quantities are constant, preventing any overclaimed and underclaimed amounts.
 - [Null] : Entities outside progress claims
- View Expression can be used to re-check the calculation, especially if Define Work Done was applied

I Set Element Ran	ge 🔣 Set Clas	sification and Qua	antity 🖳 Export	to Excel 📕, Temp
Classification Condition				
Progress Claim	Floor 😐	Name \cdots	Volume(m3)	Area of formwork(m2)
1	Basement	K1	23.670	92.040
2		K2	7.872	30.176
1 INIUII		K2A	15.744	60.352
		K3	27.294	135.664
		WC1	20.103	114.932
		WC2	3.692	25.763
	Basement	K1	23.670	91.860
8 Progress Bulan		K3	18.675	92.826
9 Januari		WC1	20.103	114.932
10		WC2	3.693	25.744
11	Total		164.514	784.289
	Set Element Ran Cla Progress Claim (Null) (Null) Progress Bulan 9 Progress Bulan 9 10	Set Element Range Set Classification Condition Progress Claim Floor ••• [Null] Basement Progress Bulan Progress Bulan Januari Basement 1 Januari Total	Set Element Range Set Classification and Quation Progress Claim Floor Name Image: Classification Progress Floor Name Image: Claim Image	Set Element Range Set Classification and Quantity Export Classification Condition Name Volume(m3) Claim Floor Name Volume(m3) K1 23.670 [Null] Basement K2 7.872 K2A 15.744 WC1 20.103 WC2 3.692 Progress Bulan Januari Basement K3 VC1 20.103 WC2 3.693 WC1 20.103 WC2 3.693 WC1 20.103 WC2 3.693 Total WC1



Quantity Reporting for Mixture of Segmentations

- Step 1: Set Classification and Quantity → Tick the desired segmentations (ex: Progress Claim & Sub-Contracting).
- Step 2: Use Move Down or Move Up to st the filter hierarchy







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Case: Reporting Work Progress

In general, work progress is reported through highlighted drawings. Colored objects indicate completed work, while greyed-out objects represent tasks that have not yet started.

In **Cubicost TAS C-VI**, segmentation zones drawn on the model can be distinguished from excluded areas using **Check Segmentation**. Additionally, the segmentation can be exported as a PDF along with detailed quantity information.



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Check Segmentation

- Step 1: Check Segmentation → Choose the segmentation name
- Step 2: Create Legend to show the quantities (optional). Make sure to display the drawing to give a better view

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Check Segmentation

- Step 3: Go to 2D Plan View
- Step 4: Export PDF → Change to White & Background Contrast Color





CASE 1: PROGRESS CLAIM



Progress Claim of Foundation, Column, and Wall Basement

Several works have been completed as follows,

- 1. 8 Pile Caps and Columns \rightarrow January 2025
- 2. Wall (2 m height) \rightarrow February 2025
- 3. 7 Pile Caps and Columns \rightarrow February 2025
- 4. Wall (remaining height) \rightarrow March 2025
- 5. 4 Pile Caps \rightarrow March 2025







Progress Claim of Foundation, Column, and Wall Basement

- Step 1: Create 3 types of Progress Claims
- Step 2: Use Progress Claim → Set Associated Segmentation for Pile Caps, Columns, and Walls
- Step 3: For construction in stages, use Define Work Done

