

Wall

Door/Window Opening

Beam

Slab

Steel Structure

Staircase

Finishes

Prefabrication

Foundation

Excavation

Others

Custom Element

Custom Quantity

Segmentation: Architectural Wall



Progress Claim Flow





Case: Architectural Wall Work Based on Rooms



Architectural walls are typically constructed based on individual room layouts, making it difficult to represent them using a simple area region.

With **Set Associated Segmentation**, specific walls can be selected and assigned to different zones for better classification.

Draw Segmentation – Specific Element Method

- Step 1: Set Associated Segmentation and choose the specific element
- Step 2: Classify each wall progress





Segmentation Segmentation(SE Column

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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 \rightarrow Tick the necessary quantities

Wall	E® Oet Element Kar	ige 📷 Set Ci	assilication and Qua	nuty was Export to Exce	i 📃 remplate 👎							
Curtain Wall	Cla	assification Cond	ition	Quantity								
Door	Claim	Floor	Name 😶	Area(m2)								
Beam	1		Bata	540.91	Set Classification	on and Quantity		×				
In-situ Slab	2		Concrete Block	527.82	Element Tune	Classification Condition		Flomont Quantity				
Slab Opening	3	Lantai 1	W2A[350]	49.105	Element Type	classification condition			1			
Room	4	Cantal I	W2[350]	74.160	Column	Attribute	Use	All Quantities				
Floor Finish	5		W3A[200]	19.803	Wall	1 Construction Zone		Volume				
Wall Finish	6		W3[250]	46.260	Curtain Wall	2 Subcontracting		Area of formwork	2			
Suspended Ceiling	7 Progress Bata	Lantai 1	Bata	95.439	Door	3 Progress Claim		Area of formwork for st	5			
Railing	8 Bulan April		Concrete Block	67.966	Beam	4 Custom		Length of formwork to ea				
	9 Progress Bata	Lantai 1	Bata	47.174	In-situ Slab	5 Zone		Area of formworkto edac				
	10 Bulan Mer		Concrete Block	38.714	Slab Opening	6 Floor		Length of formwork to ed.				
	11	Total		1507.417	Room	7 Material						
					Floor Finish	8 Concrete Grade						
					Wall Finish	9 Entity Type					_	
					Suspended	10 Interior/Exterior		Weight of reb AW	VEW QUANTI	TY REVISIO	N	
					Railing	11 Thickness		Number				
						12 Name		Net length of	<		==	0
						13 Name Suffix		Volume of mc	<u>~</u> Q	<u>= Q</u>	EQ	LOCK *
						14 Axis to Left Sideline		Original thick				
						15 Category		Original heigkalculate	View	View Quantity	View	🚽 Unlock
						16 Concrete Type		Original lengt cted En	tity Expression	by Category	Quantity	
						17 Grout Type						
						18 Mortar Grade		• ·		Quan	tity	
						↑ Move Up ↓ Move Down						
								OK Cancel				

by **GLODO**

Quantity Reporting

- Area of walls 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







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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.





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
- Step 3: Export PDF







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Segmentation: Multiple Finish Layers



Progress Claim Flow





Case: Multiple Layers in Wall Finish



Wall finish work consists of multiple layers, including plaster, smooth plaster, and paint, which may vary in height.

This work is also carried out in **stages**, with some walls completed up to the painting stage, while others may only have plaster or a combination of plaster

Plaster Progress

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Measurement Settings – Wall Finish



Modeling 🖽 BQ

v Glodor



F Draw Segmentation



Draw Segmentation

Currently, we can't separate work progress for painting (*cat*), smooth plaster (*aci*), plaster (*plester*) using the same segmentation type. Therefore, we will use combination of **Construction Zone, Subcontracting, Progress Claim, and Custom.** The number of types used corresponds to the number of layers. If there are only 3 layers (painting, smooth plaster, and plaster), we will only use 3 segmentation types (Construction Zone, Subcontracting, and Progress Claim).



Floor Height: 3.600 Bottom Elevation: -0.050 2 Selected Entity: 0 Hidden Entity: 0 🛌 🛅 🕂 🖧 🔀 🕂 🖷 Cross-Element Select



Draw Segmentation – Set Specific Entity

- Step 1: New Segmentation → Construction Zone, Subcontracting, Progress Claim
- Step 2: Element name

Construction Zone = Plaster (*Plester*)

Subcontracting = Smooth Plaster (Aci)



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Draw Segmentation – Set Specific Entity

- Step 3: Set Associated Segmentation
- Step 4: Choose the progress of that specific wall finish



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E Quantity Reporting



Quantity Reporting

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- Step 1: View Quantity by Category
- Step 2: Set Classification and Quantity \rightarrow Choose the target segmentation •
- Step 3: Element Quantity \rightarrow Choose the corresponding layer



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Quantity Reporting

• Progress Plester

- Segmentation: Construction Zone
- Quantity: Area of Plastering to Wall Finish

		Quantity				
	Construction Zone	Floor …	Name \cdots	Associated Room	Area of plastering to wall finish(m2)	
1			Cat acrylic Emulsion appariton	Bedroom	447.287	
2				Corridor	249.923	
3	3 [Null] 5 6	Lantai 1		Living Room type 1 bed	320.415	
4				Living Room type 2 bed	146.658	
5			Cat minyak	Janitor	73.602	
6				Toilet	327.630	
7	Progress Plester Bulan Juni	ster Lantai 1	Cat acrylic Emulsion appariton	Bedroom	157.715	
8				Corridor	28.985	
9				Living Room type 2 bed	126.002	
10			Octoriousk	Janitor	36.537	
11			Cauminyak	Toilet	95.036	
12		2009.790				

• Progress Aci

- Segmentation: Subcontracting
- Quantity: Area of Custom Finish to Wall Finish

		Quantity			
	Subcontractin	Floor …	Name \cdots	Associated Room	Area of custom finish to wall finish(m2)
1				Bedroom	516.625
2		Lantai 1	Cat acrylic Emulsion appariton	Corridor	244.548
3	3 [Null] 5			Living Room type 1 bed	314.516
4				Living Room type 2 bed	161.264
5			Cat minyak	Janitor	72.148
6				Toilet	345.089
ł	Progress Aci Bulan Juni		Cat acrylic Emulsion appariton	Bedroom	77.324
3 9 1D		Lantai 1		Corridor	28.222
				Living Room type 2 bed	106.425
			Catiminuals	Janitor	35.798
11			Cauminyak	Toilet	69.291
12		1971.251			

• Progress Cat

- Segmentation: Progress Claim
- Quantity: Area of Finish to Wall Finish

		Quantity			
	Progress Claim	Floor …	Name 💮	Associated Room	Area of finish to wall finish(m2)
1			Cat acrylic Emulsion appariton	Bedroom	507.105
2		Lantai 1		Corridor	264.592
3	[Null]			Living Room type 1 bed	308.618
4				Living Room type 2 bed	203.950
5			Cat minyak	Janitor	70.695
6				Toilet	368.859
7	Progress Cat Bulan Juni	Lantai 1	Cat acrylic Emulsion appariton	Bedroom	75.791
8				Corridor	2.042
9				Living Room type 2 bed	58.767
10			Octoriously	Janitor	35.058
11			Catminyak	Toilet	37.236
12		1932.712			

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F5 Check Segmentation



Check Segmentation

- Step 1: Check Segmentation \rightarrow Choose the specific finish layer
- Step 2: Create Legend





Check Segmentation

• Step 3: Export PDF

This can only be done for each finish layer separately





CASE 1: WALL PROGRESS CLAIM



Progress Claim of Architectural Walls 1st Floor

In February 2025, architectural wall construction is in progress, carried out by two sub-contractors:
•Sub-Contractor A: Working on both sides of the building
•Sub-Contractor B: Working in the middle of the building
Some work is still pending, but claims and reports must be submitted



Mapping Progress Dinding Subkontraktor B

Progress Claim of Architectural Walls 1st Floor

- Step 1: Create 2 segmentations of Subcontracting and 2 segmentations of Progress Claim
- Step 2: Use Subcontracting → Draw by Area for each subcontractor's region
- Step 3: Use Progress Claim \rightarrow Set Associated Segmentation for Walls



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CASE 2: WALL FINISHES PROGRESS CLAIM



Progress Claim of Wall Finishes 1st Floor

Wall finish work consists of multiple layers, including plaster (plester), smooth plaster (aci), and paint (cat), which may vary in height.

This work is also carried out in **stages**, with some walls completed up to the painting stage, while others may only have plaster or a combination of plaster and smooth plaster.



Progress Claim of Wall Finishes 1st Floor

- Step 1: Create 3 segmentations: Construction Zone, Subcontracting, Progress Claim
- Step 2: Construction Zone \rightarrow Set Associated Segmentation for Plaster
- Step 3: Subcontracting \rightarrow Set Associated Segmentation for Aci
- Step 4: Progress Claim \rightarrow Set Associated Segmentation for Cat



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