

Title:	HKIS HKIBIM Joint Research for BIM Quantity Take-off
Subject:	Structural Elements RC Quantities (Concrete Volume and Formwork Area)
Solution submitted by:	Ir Francis Leung, FHKIE MHKIBIM
BIM Software:	Autodesk Revit
Special Modelling Method:	<p>Modelling method follows simple modelling practice for structural engineering targeting to framing plans production. Summary of the automatic features from Revit and manual adjustment required are:</p> <ul style="list-style-type: none">■ Structural Beams are automatically joined with Structural Slab;■ Structural Columns are automatically joined with Structural Slab;■ Structural Walls DO NOT NEED to join with Structural Slab;■ Structural Wall Top Level is lowered by 0.1mm to show hidden lines on plan;■ Shared Parameters b & h are added to Beam and Column Families;■ Paint to Beam for formwork is added to Family;■ Paint to Column for formwork is added to Family;■ No paint is added to Wall; and■ Rebar Ratio is MANUALLY input.
Model Images:	<p>The image displays architectural drawings and 3D models of a structural frame. The drawings include a plan view (left) and two section views (middle and right). The plan view shows a rectangular frame with columns C1, C2, C3, C4 (450x600 and 600x750) and beams B1, B2, B3, B4 (300x600 and 300x600). It also shows walls W1, W2, W3 (250 THK, 300 THK, 250 THK) and dimensions like 8000, 4500, 10000, 4000, 1500, 4500. Section views show levels 1 (0) and 2 (3000) with beam dimensions 600x750 and 450x600. Two 3D isometric models on the right show the frame structure with columns and beams highlighted in green and purple.</p>

HKIS HKIBIM Joint Research FL.rvt

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Properties Group Ungroup New Delete Hide Unhide All Highlight in Model

Properties Headers Rows Columns Element

Modify Material Takeoff

Properties

Schedule

Schedule: 01 Struct Edit Type

Phase New Constr...

Other

Fields Edit...

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Properties help Apply

HKIS HKIBIM Joint Research FL.rvt - ...

West

Legends

Schedules/Quantities

01 Structural Slab Schedule

11 Structural Beam Schedule

12 Beam Side Formwork Schedule

13 Beam Soffit Formwork Schedule

21 Structural Column Schedule

22 Column Formwork Schedule

31 Wall Schedule

Sheets (all)

Ready

Schedule: 22 Column Formwork Schedule - HKIS HKIBIM Joint Research FL.rvt

Top Level	Top Off	Base Level	Base Off	Mark	Type	b (mm)	d (mm)	h
Level 2	0	Level 1	0	C1	450 x 600	450	600	3.1
Level 2	0	Level 1	0	C2	450 x 600	450	600	3.1
Level 2	0	Level 1	0	C3	600 x 750	600	750	3.1
Level 2	0	Level 1	0	C4	600 x 750	600	750	3.1
Grand total: 4								

Schedule: 12 Beam Side Formwork Schedule - HKIS HKIBIM Joint Research FL.rvt

Reference L	Mark	Type	b (mm)	d (mm)	L (m)	Material: Name	Area
Level 2	B1	300 x 600	300	600	8.000	Formwork Beam Side	
Level 2	B2	300 x 600	300	600	10.000	Formwork Beam Side	
Level 2	B3	300 x 600	300	600	8.000	Formwork Beam Side	
Level 2	B4	300 x 600	300	600	1.500	Formwork Beam Side	
Formwork Beam Side: 4							

Schedule: 21 Structural Column Schedule - HKIS HKIBIM Joint Research FL.rvt

Top Level	Top Off	Base Level	Base O	Mark	Type	b (mm)	d (mm)
Level 2	0	Level 1	0	C1	450 x 600	450	600
Level 2	0	Level 1	0	C2	450 x 600	450	600
Level 2	0	Level 1	0	C3	600 x 750	600	750
Level 2	0	Level 1	0	C4	600 x 750	600	750
Grand total: 4							

Schedule: 11 Structural Beam Schedule - HKIS HKIBIM Joint Research FL.rvt

Reference L	Mark	Type	b (mm)	d (mm)	L (m)	Material: Name
Level 2	B1	300 x 600	300	600	8.000	Concrete Grade C35
Level 2	B2	300 x 600	300	600	10.000	Concrete Grade C35
Level 2	B3	300 x 600	300	600	8.000	Concrete Grade C35
Level 2	B4	300 x 600	300	600	1.500	Concrete Grade C35
Grand total: 4						

Schedule: 31 Wall Schedule - HKIS HKIBIM Joint Research FL.rvt

Mark	Type	Length (m)	Thk (mm)	Material: Name	Wall Face Area (m²)	Concrete
W3	250 THK	1.850	250	Concrete Grade C40	5.550	1.3875
250 THK: 1					5.550	1.3875
W1	300 THK	4.200	300	Concrete Grade C40	12.600	3.7795
W2	300 THK	3.625	300	Concrete Grade C40	10.875	3.2624
300 THK: 2					23.474	7.0423
Grand total: 3					29.024	8.4297

Schedule: 13 Beam Soffit Formwork Schedule - HKIS HKIBIM Joint Research FL.rvt

Reference L	Mark	Type	b (mm)	d (mm)	L (m)	Material: Name	Area (m²)
Level 2	B1	300 x 600	300	600	8.000	Formwork Beam Soffit	2.2650
Level 2	B2	300 x 600	300	600	10.000	Formwork Beam Soffit	2.7975
Level 2	B3	300 x 600	300	600	8.000	Formwork Beam Soffit	2.2200
Level 2	B4	300 x 600	300	600	1.500	Formwork Beam Soffit	0.4500
Formwork Beam Soffit: 4							7.7325

Schedule: 01 Structural Slab Schedule - HKIS HKIBIM Joint Research FL.rvt

Mark	Type	Structural	Material: Name	Material: Area	Material: Volume
S1	150 THK	<input checked="" type="checkbox"/>	Concrete Grade C30	120 m²	18.00 m³

Item:	Structural Slab																																		
Schedule from Revit:								Hand Calculation Checking: Width = 10m; Length = 12m; Area = 10 x 12 = 120 m²; Volume = 120 x 0.15 = 18 m³																											
<table><tr><th colspan="8">Structural Slab Schedule</th><th></th></tr><tr><th>Mark</th><th>Type Name (Manual Input)</th><th>Material: Name</th><th>Structural</th><th>Area</th><th>Volume</th><th>Calc Thk</th><th>Rebar Ratio (kg/m³)</th><th>Rebar Content (kg)</th></tr><tr><td>S1</td><td>150 THK</td><td>Concrete Grade C30</td><td>Yes</td><td>120 m²</td><td>18.00 m³</td><td>150 mm</td><td>130</td><td>2,340</td></tr></table>								Structural Slab Schedule									Mark	Type Name (Manual Input)	Material: Name	Structural	Area	Volume	Calc Thk	Rebar Ratio (kg/m³)	Rebar Content (kg)	S1	150 THK	Concrete Grade C30	Yes	120 m²	18.00 m³	150 mm	130	2,340	Remark: “Calc Thk” is calculated by “Volume / Area” to counter-check the correctness of Type Name.
Structural Slab Schedule																																			
Mark	Type Name (Manual Input)	Material: Name	Structural	Area	Volume	Calc Thk	Rebar Ratio (kg/m³)	Rebar Content (kg)																											
S1	150 THK	Concrete Grade C30	Yes	120 m²	18.00 m³	150 mm	130	2,340																											
Manual Adjustment: Deduction for Column-Slab Overlapping: 0.216 m³ (from Structural Column Schedule) Deduction for Wall-Slab Overlapping: 0.4215 m³ (from Wall Schedule) Adjusted Slab Volume = 18.0 – 0.216 – 0.4215 = 17.3625 m³																																			
Sub-item:	Structural Slab Formwork																																		
Formwork Area is calculated by Slab Area minus Column and Wall Cross Sectional Area minus Beam Soffit Formwork Area Slab Area = 120 m² (from Structural Slab Schedule) Column Cross Sectional Area = 1.440 m² (from Structural Column Schedule) Wall Cross Sectional Area = 2.810 m² (from Wall Schedule) Beam Soffit Formwork Area = 7.733 m² (from Structural Beam Schedule) Adjusted Slab Formwork Area = 120.0 – 1.440 – 2.810 – 7.733 = 108.017 m²								Remark:																											

Item:	Structural Beam									
Structural Beam Schedule from Revit:									Remark: b & h are Shared Parameters. Length is the total length from end-to-end. In this case, it is from column centre to column centre. Volume is the net volume with the overlapping between beam-slab and beam-column deducted.	
Structural Beam Schedule										
<i>Reference Level</i>	<i>Mark</i>	<i>Type</i>	<i>b (mm)</i>	<i>d (mm)</i>	<i>L (m)</i>	<i>Material</i>	<i>Volume (m³)</i>	<i>Rebar Ratio (kg/m³)</i>		<i>Rebar Content (b * d * L * Rebar Ratio) (kg)</i>
Level 2	B1	300 x 600	300	600	8.0	Concrete Grade C35	1.019	300		432
Level 2	B2	300 x 600	300	600	10.0	Concrete Grade C35	1.259	300		540
Level 2	B3	300 x 600	300	600	8.0	Concrete Grade C35	0.999	300	432	
Level 2	B4	300 x 600	300	600	1.5	Concrete Grade C35	0.203	300	81	
Grand total: 4							3.480	1,485		
Sub-item:	Structural Beam Formwork									
Beam Formwork Schedule from Revit:									Remark: Material “Formwork Beam Side” and “Formwork Beam Soffit” are added to Beam Family. Formwork Beam Side is calculated for area under Slab.	
Beam Side Formwork Schedule										
<i>Reference Level</i>	<i>Mark</i>	<i>Type</i>	<i>b (mm)</i>	<i>d (mm)</i>	<i>L (m)</i>	<i>Name</i>	<i>Area (m²)</i>			
Level 2	B1	300 x 600	300	600	8.0	Formwork Beam Side	6.7950			
Level 2	B2	300 x 600	300	600	10.0	Formwork Beam Side	8.3925			
Level 2	B3	300 x 600	300	600	8.0	Formwork Beam Side	6.6600			
Level 2	B4	300 x 600	300	600	1.5	Formwork Beam Side	1.3500			
Formwork Beam Side: 4							23.1975			
Beam Soffit Formwork Schedule										
<i>Reference Level</i>	<i>Mark</i>	<i>Type</i>	<i>b (mm)</i>	<i>d (mm)</i>	<i>L (m)</i>	<i>Name</i>	<i>Area (m²)</i>	<i>Net Beam Length (Calc) (m)</i>		
Level 2	B1	300 x 600	300	600	8.0	Formwork Beam Soffit	2.2650	7.550		
Level 2	B2	300 x 600	300	600	10.0	Formwork Beam Soffit	2.7975	9.325		
Level 2	B3	300 x 600	300	600	8.0	Formwork Beam Soffit	2.2200	7.400		
Level 2	B4	300 x 600	300	600	1.5	Formwork Beam Soffit	0.4500	1.500		
Formwork Beam Soffit: 4							7.7325			

Item:	Structural Column																																																																																																																					
Structural Column Schedule from Revit:																Remark:																																																																																																						
<div>Structural Column Schedule</div> <table><tr><th>Top Level</th><th>Top Offset (m)</th><th>Base Level</th><th>Base Offset (m)</th><th>Mark</th><th>Type</th><th>b (mm)</th><th>d (mm)</th><th>h (m)</th><th>Material</th><th>Cross Sectional Area (m²)</th><th>Volume (m³)</th><th>SMM Volume (m³) b*h*Length</th><th>Volume Adjustment (m³)</th><th>Calc Slab Thk (mm)</th><th>Rebar Ratio (kg/m³)</th><th>Rebar Content (b * d * h* Rebar Ratio) (kg)</th></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C1</td><td>450 x 600</td><td>450</td><td>600</td><td>3.00</td><td>Concrete Grade C40</td><td>0.270</td><td>0.7695</td><td>0.8100</td><td>0.0405</td><td>150</td><td>300</td><td>243</td></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C2</td><td>450 x 600</td><td>450</td><td>600</td><td>3.00</td><td>Concrete Grade C40</td><td>0.270</td><td>0.7695</td><td>0.8100</td><td>0.0405</td><td>150</td><td>300</td><td>243</td></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C3</td><td>600 x 750</td><td>600</td><td>750</td><td>3.00</td><td>Concrete Grade C40</td><td>0.450</td><td>1.2825</td><td>1.3500</td><td>0.0675</td><td>150</td><td>300</td><td>405</td></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C4</td><td>600 x 750</td><td>600</td><td>750</td><td>3.00</td><td>Concrete Grade C40</td><td>0.450</td><td>1.2825</td><td>1.3500</td><td>0.0675</td><td>150</td><td>300</td><td>405</td></tr><tr><td colspan="10">Grand total: 4</td><td>1.440</td><td>4.1040</td><td>4.3200</td><td>0.2160</td><td></td><td></td><td>1,296</td></tr></table>																Top Level	Top Offset (m)	Base Level	Base Offset (m)	Mark	Type	b (mm)	d (mm)	h (m)	Material	Cross Sectional Area (m²)	Volume (m³)	SMM Volume (m³) b*h*Length	Volume Adjustment (m³)	Calc Slab Thk (mm)	Rebar Ratio (kg/m³)	Rebar Content (b * d * h* Rebar Ratio) (kg)	Level 2	0	Level 1	0	C1	450 x 600	450	600	3.00	Concrete Grade C40	0.270	0.7695	0.8100	0.0405	150	300	243	Level 2	0	Level 1	0	C2	450 x 600	450	600	3.00	Concrete Grade C40	0.270	0.7695	0.8100	0.0405	150	300	243	Level 2	0	Level 1	0	C3	600 x 750	600	750	3.00	Concrete Grade C40	0.450	1.2825	1.3500	0.0675	150	300	405	Level 2	0	Level 1	0	C4	600 x 750	600	750	3.00	Concrete Grade C40	0.450	1.2825	1.3500	0.0675	150	300	405	Grand total: 4										1.440	4.1040	4.3200	0.2160			1,296	Volume is directly obtained from Model. Overlapping between Column and Slab is counted as Slab therefore less than SMM Volume. Calc Slab Thk is calculated by Volume Adjustment divided by Cross Sectional Area to counter-check the thickness of overlapping between Column and Slab.
Top Level	Top Offset (m)	Base Level	Base Offset (m)	Mark	Type	b (mm)	d (mm)	h (m)	Material	Cross Sectional Area (m²)	Volume (m³)	SMM Volume (m³) b*h*Length	Volume Adjustment (m³)	Calc Slab Thk (mm)	Rebar Ratio (kg/m³)	Rebar Content (b * d * h* Rebar Ratio) (kg)																																																																																																						
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Sub-item:	Structural Column Formwork																																																																																																																					
Column Formwork Schedule from Revit:																Hand Calculation Checking:																																																																																																						
<div>Column Formwork Schedule</div> <table><tr><th>Top Level</th><th>Top Offset (m)</th><th>Base Level</th><th>Base Offset (m)</th><th>Mark</th><th>Type</th><th>b (mm)</th><th>d (mm)</th><th>h (m)</th><th>Name</th><th>Area (m²)</th><th>Height (Calc) (m)</th></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C1</td><td>450 x 600</td><td>450</td><td>600</td><td>3.00</td><td>Formwork Column</td><td>5.985</td><td>2.850</td></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C2</td><td>450 x 600</td><td>450</td><td>600</td><td>3.00</td><td>Formwork Column</td><td>5.985</td><td>2.850</td></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C3</td><td>600 x 750</td><td>600</td><td>750</td><td>3.00</td><td>Formwork Column</td><td>7.695</td><td>2.850</td></tr><tr><td>Level 2</td><td>0</td><td>Level 1</td><td>0</td><td>C4</td><td>600 x 750</td><td>600</td><td>750</td><td>3.00</td><td>Formwork Column</td><td>7.695</td><td>2.850</td></tr><tr><td colspan="10">Grand total: 4</td><td>27.360</td><td></td></tr></table>																Top Level	Top Offset (m)	Base Level	Base Offset (m)	Mark	Type	b (mm)	d (mm)	h (m)	Name	Area (m²)	Height (Calc) (m)	Level 2	0	Level 1	0	C1	450 x 600	450	600	3.00	Formwork Column	5.985	2.850	Level 2	0	Level 1	0	C2	450 x 600	450	600	3.00	Formwork Column	5.985	2.850	Level 2	0	Level 1	0	C3	600 x 750	600	750	3.00	Formwork Column	7.695	2.850	Level 2	0	Level 1	0	C4	600 x 750	600	750	3.00	Formwork Column	7.695	2.850	Grand total: 4										27.360		Formwork Area for C1 = (0.30 +0.70) x 2 x (3.0 – 0.15) = 5.70 m²																														
Top Level	Top Offset (m)	Base Level	Base Offset (m)	Mark	Type	b (mm)	d (mm)	h (m)	Name	Area (m²)	Height (Calc) (m)																																																																																																											
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Item:	Structural Wall																																																																																																																
Wall Schedule from Revit:												Hand Calculation Checking: Wall Area for W1 = 4.20 x (3.0 – 0.15) = 11.97 m² Wall Volume for W1 = 11.97 x 0.3 = 3.5910 m³																																																																																																					
<div>Wall Schedule</div> <table><tr><th>Mark</th><th>Type</th><th>Length (m)</th><th>Width (mm)</th><th>Material: Name</th><th>Wall Face Area (m²)</th><th>Conc. Volume (m³)</th><th>Cross Sectional Area (m²)</th><th>Slab Thk (mm)</th><th>Volume Overlapped (m³)</th><th>Wall Height (Calc) (m)</th><th>Adjusted Wall Face Area (m²)</th><th>Rebar Ratio (kg/m³)</th><th>Rebar Content (Conc Volume* Rebar Ratio) (kg)</th></tr><tr><td>W3</td><td>250 THK</td><td>2.000</td><td>250</td><td>Concrete Grade C40</td><td>5.550</td><td>1.3875</td><td>0.4630</td><td>150</td><td>0.0694</td><td>3.000</td><td>5.27231</td><td>150</td><td>208</td></tr><tr><td colspan="5">250 THK: 1</td><td>5.550</td><td>1.3875</td><td>0.4630</td><td></td><td>0.0694</td><td></td><td>5.27231</td><td></td><td>208</td></tr><tr><td>W1</td><td>300 THK</td><td>4.200</td><td>300</td><td>Concrete Grade C40</td><td>12.600</td><td>3.7799</td><td>1.2600</td><td>150</td><td>0.1890</td><td>3.000</td><td>11.96958</td><td>150</td><td>567</td></tr><tr><td>W2</td><td>300 THK</td><td>3.625</td><td>300</td><td>Concrete Grade C40</td><td>10.875</td><td>3.2624</td><td>1.0880</td><td>150</td><td>0.1631</td><td>3.000</td><td>10.33089</td><td>150</td><td>489</td></tr><tr><td colspan="5">300 THK: 2</td><td>23.474</td><td>7.0423</td><td>2.3480</td><td></td><td>0.3521</td><td></td><td>22.30047</td><td></td><td>1,056</td></tr><tr><td colspan="5">Grand total: 3</td><td>29.024</td><td>8.4297</td><td>2.8100</td><td></td><td>0.4215</td><td></td><td>27.57278</td><td></td><td>1,264</td></tr></table>														Mark	Type	Length (m)	Width (mm)	Material: Name	Wall Face Area (m²)	Conc. Volume (m³)	Cross Sectional Area (m²)	Slab Thk (mm)	Volume Overlapped (m³)	Wall Height (Calc) (m)	Adjusted Wall Face Area (m²)	Rebar Ratio (kg/m³)	Rebar Content (Conc Volume* Rebar Ratio) (kg)	W3	250 THK	2.000	250	Concrete Grade C40	5.550	1.3875	0.4630	150	0.0694	3.000	5.27231	150	208	250 THK: 1					5.550	1.3875	0.4630		0.0694		5.27231		208	W1	300 THK	4.200	300	Concrete Grade C40	12.600	3.7799	1.2600	150	0.1890	3.000	11.96958	150	567	W2	300 THK	3.625	300	Concrete Grade C40	10.875	3.2624	1.0880	150	0.1631	3.000	10.33089	150	489	300 THK: 2					23.474	7.0423	2.3480		0.3521		22.30047		1,056	Grand total: 3					29.024	8.4297	2.8100		0.4215		27.57278		1,264	Remark: “Slab Thk” is a MANUALLY input parameter to calculate Volume Adjustment. “Wall Height (Calc)” is calculated from “Wall Face Area” divided by “Length” “Wall Height + Slab Thk” is the sum of “Slab Thk” and “Wall Height (Calc)”	
Mark	Type	Length (m)	Width (mm)	Material: Name	Wall Face Area (m²)	Conc. Volume (m³)	Cross Sectional Area (m²)	Slab Thk (mm)	Volume Overlapped (m³)	Wall Height (Calc) (m)	Adjusted Wall Face Area (m²)	Rebar Ratio (kg/m³)	Rebar Content (Conc Volume* Rebar Ratio) (kg)																																																																																																				
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Sub-item:	Wall Formwork																																																																																																																
Wall Formwork Area = Wall Area in Wall Schedule = 27.57278 m²																																																																																																																	
Item:	Rebar Content																																																																																																																
Results from Schedules:	<div>Results from Schedules:</div> <table><tr><th>Type of Structure</th><th>Rebar Content (kg)</th></tr><tr><td>Slab</td><td>2,340</td></tr><tr><td>Beam</td><td>1,485</td></tr><tr><td>Column</td><td>1,296</td></tr><tr><td>Wall</td><td>1,264</td></tr><tr><td>Total:</td><td>6,385</td></tr></table> <div>Rebar Content per Floor Area = 6,385 / 120 = 53.21 kg/m²</div>													Type of Structure	Rebar Content (kg)	Slab	2,340	Beam	1,485	Column	1,296	Wall	1,264	Total:	6,385																																																																																								
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