

Revision History			
RevID	ChID	Change Name	Date



### mini-50 Data Center

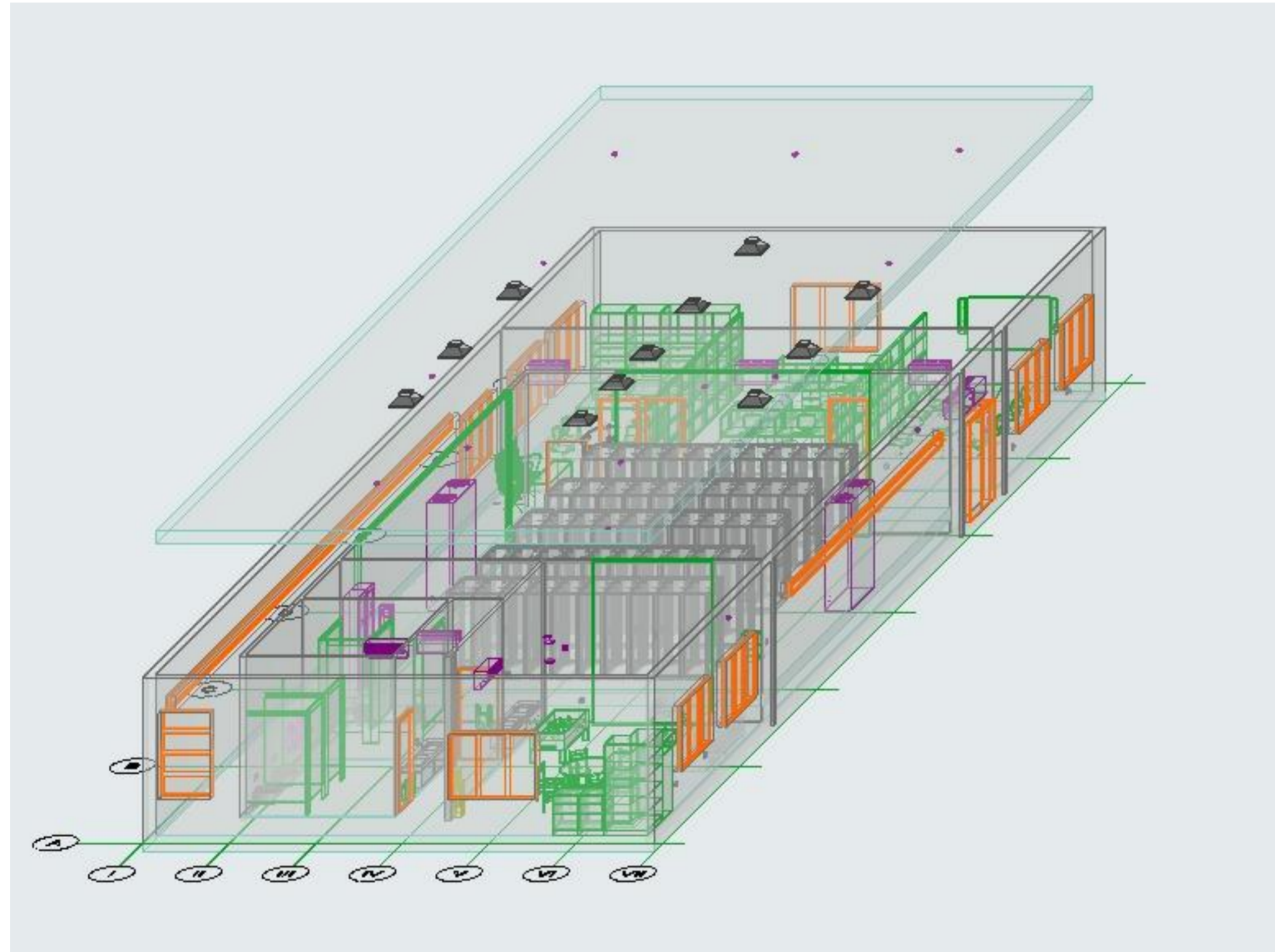
**Floor area:** 360 sq.m (3875 sq. ft)  
**Type:** Efficient high-density layout model  
**Capacity:** 50 42U Standard Smart Rack Servers  
**Power Distribution Units:** 5  
**Heat:** 2 Air Cooling Units (Server Room)  
**Floor:** 600mm Raised Access (Server Room)  
**Back-up power:** Yes  
**Fire-safety:** Yes

Drawing Name  
**Physical Model**

Designed by  
 Eng. E.N. Mar-2026

Drawing Scale  
**1:100**

Layout ID Revision  
**A.05.1**



Revision History			
RevID	ChID	Change Name	Date



**mini-50 Data Center**

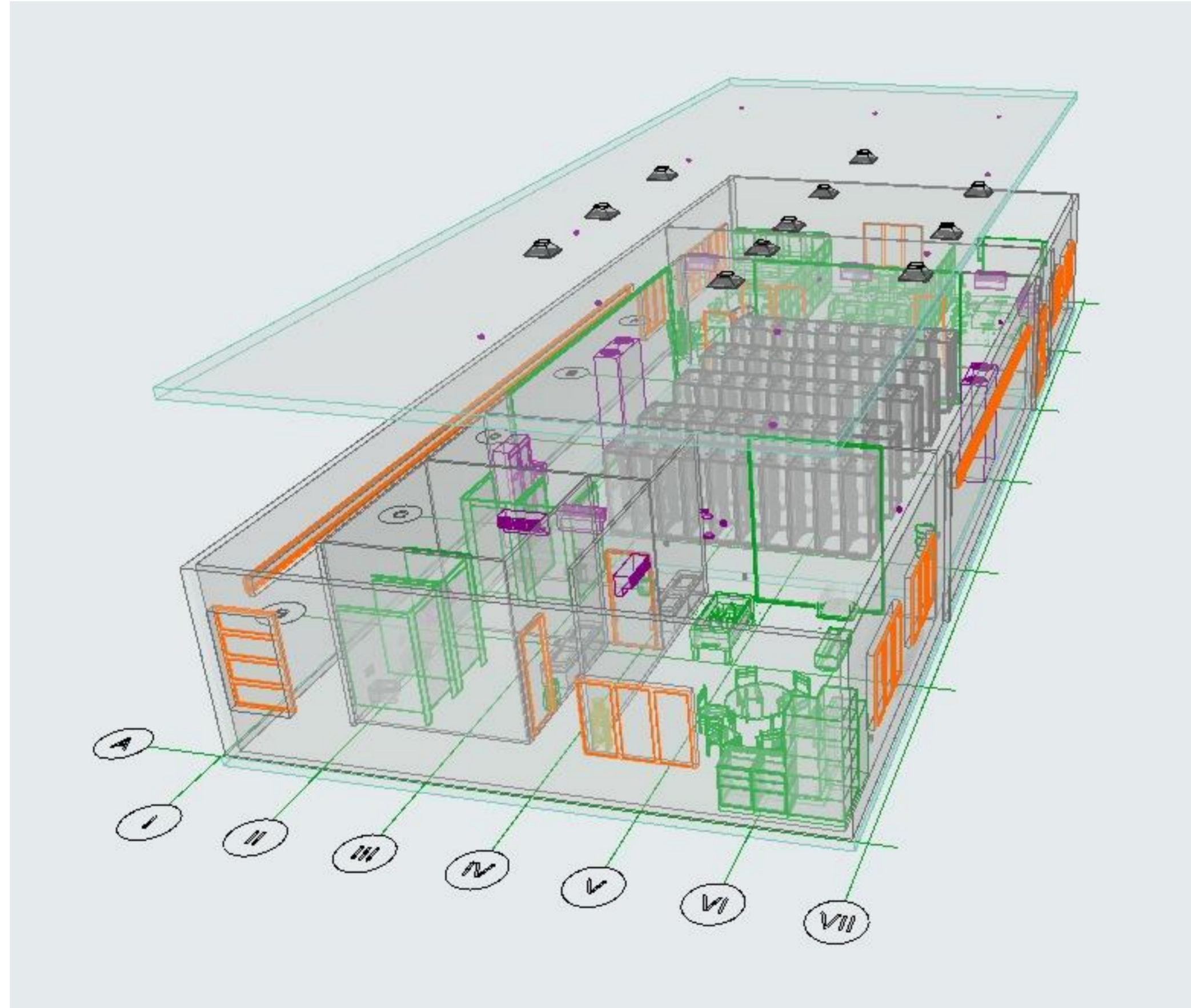
**Floor area:** 360 sq.m (3875 sq. ft)  
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**Capacity:** 50 42U Standard Smart Rack Servers  
**Power Distribution Units:** 5  
**Heat:** 2 Air Cooling Units (Server Room)  
**Floor:** 600mm Raised Access (Server Room)  
**Back-up power:** Yes  
**Fire-safety:** Yes

Drawing Name  
**Physical Model - Frontal Axonometry**

Designed by  
 Eng. E.N. Mar-2026

Drawing Scale  
**1:100**

Layout ID Revision  
**A.05.2**



Revision History			
RevID	ChID	Change Name	Date



**mini-50 Data Center**

**Floor area:** 360 sq.m (3875 sq. ft)  
**Type:** Efficient high-density layout model  
**Capacity:** 50 42U Standard Smart Rack Servers  
**Power Distribution Units:** 5  
**Heat:** 2 Air Cooling Units (Server Room)  
**Floor:** 600mm Raised Access (Server Room)  
**Back-up power:** Yes  
**Fire-safety:** Yes

Drawing Name  
**Structural Analytical Model  
 with Core**

Designed by  
 Eng. E.N. Mar-2026

Drawing Scale  
**1:100**

Layout ID Revision  
**A.05.3**

All Components Schedule									
ID	Name	Component	Classification (Material)	Thickness	Type	Parent Element		Component Volume	
						Element ID	Classification (Element)	Gross	Net
IC-00	GENERIC - INTERNAL CLADDING		Generic Internal Cladding & Finishes	0.10	Slab	SLA - 002	Slab	11.77	11.77
ST-00	GENERIC - STRUCTURAL		Generic In-situ Material	0.20	Slab	SLA - 002	Slab	23.55	23.55
IC-03	Tile - Floor		Ceramic Floor Tiles	0.01	Slab	SLA - 003	Slab	3.23	3.23
EF-01	Concrete		Concrete	0.05	Slab	SLA - 003	Slab	16.30	16.30
IN-04	Insulation - Mineral Hard		Mineral Thermal Insulation	0.03	Slab	SLA - 003	Slab	9.78	9.78
ST-06	Reinforced Concrete - Structural		Structural In Situ Concrete	0.20	Slab	SLA - 003	Slab	69.24	69.24
IC-01	Plaster - Gypsum		Gypsum Plaster	0.01	Slab	SLA - 003	Slab	3.46	3.46
IC-00	GENERIC - INTERNAL CLADDING		Generic Internal Cladding & Finishes	0.10	Slab	SLA - 005	Slab	32.79	32.79
ST-00	GENERIC - STRUCTURAL		Generic In-situ Material	0.20	Slab	SLA - 005	Slab	65.58	65.58
EC-00	GENERIC - EXTERNAL CLADDING		Generic External Cladding & Finishes	0.05	Wall	SW - 028	Wall	11.08	9.36
ST-00	GENERIC - STRUCTURAL		Generic In-situ Material	0.18	Wall	SW - 028	Wall	38.60	32.59
IC-01	Plaster - Gypsum		Gypsum Plaster	0.01	Wall	SW - 027	Wall	0.68	0.68
ST-02	Brick - Structural		Clay Brick	0.10	Wall	SW - 027	Wall	2.85	2.85
IC-01	Plaster - Gypsum		Gypsum Plaster	0.01	Wall	SW - 026	Wall	0.37	0.32
ST-02	Brick - Structural		Clay Brick	0.10	Wall	SW - 026	Wall	1.61	1.42
IF-02	Gypsum Plasterboard		Gypsum Cladding & Finishes	0.01	Wall	SW - 030	Wall	0.42	0.36
IF-01	Air Space - Frame		Generic Air Gap	0.08	Wall	SW - 030	Wall	1.31	1.17
EC-00	GENERIC - EXTERNAL CLADDING		Generic External Cladding & Finishes	0.05	Wall	SW - 034	Wall	2.23	1.96
ST-00	GENERIC - STRUCTURAL		Generic In-situ Material	0.18	Wall	SW - 034	Wall	7.65	6.71
IF-02	Gypsum Plasterboard		Gypsum Cladding & Finishes	0.01	Wall	SW - 031	Wall	0.56	0.56
IF-01	Air Space - Frame		Generic Air Gap	0.08	Wall	SW - 031	Wall	1.76	1.76
IF-02	Gypsum Plasterboard		Gypsum Cladding & Finishes	0.01	Wall	SW - 033	Wall	0.33	0.28
IF-01	Air Space - Frame		Generic Air Gap	0.08	Wall	SW - 033	Wall	1.04	0.90
IF-02	Gypsum Plasterboard		Gypsum Cladding & Finishes	0.01	Wall	SW - 035	Wall	0.31	0.31
IF-01	Air Space - Frame		Generic Air Gap	0.08	Wall	SW - 035	Wall	0.96	0.96
IC-01	Plaster - Gypsum		Gypsum Plaster	0.01	Wall	SW - 036	Wall	0.11	0.11
ST-02	Brick - Structural		Clay Brick	0.10	Wall	SW - 036	Wall	0.43	0.43
IC-01	Plaster - Gypsum		Gypsum Plaster	0.01	Wall	SW - 037	Wall	0.52	0.52
ST-02	Brick - Structural		Clay Brick	0.10	Wall	SW - 037	Wall	2.20	2.20
IC-01	Plaster - Gypsum		Gypsum Plaster	0.01	Wall	SW - 038	Wall	0.12	0.12
ST-02	Brick - Structural		Clay Brick	0.10	Wall	SW - 038	Wall	0.54	0.54
EC-00	GENERIC - EXTERNAL CLADDING		Generic External Cladding & Finishes	0.05	Wall	SW - 041	Wall	2.23	2.08
ST-00	GENERIC - STRUCTURAL		Generic In-situ Material	0.18	Wall	SW - 041	Wall	7.68	7.16
IF-02	Gypsum Plasterboard		Gypsum Cladding & Finishes	0.01	Wall	SW - 042	Wall	1.02	0.88
IF-01	Air Space - Frame		Generic Air Gap	0.08	Wall	SW - 042	Wall	3.22	2.79
Grand Total:								325.53 m³	314.72 m³

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**Heat:** 2 Air Cooling Units (Server Room)  
**Floor:** 600mm Raised Access (Server Room)  
**Back-up power:** Yes  
**Fire-safety:** Yes

Drawing Name  
**All Components Schedule**

Designed by  
 Eng. E.N. Mar-2026

Drawing Scale  
**1:1**

Layout ID Revision  
**A.06.2.1**

Components by Elements						
Parent Element		Component			Component Volume [m3]	
Element ID	Classification (Element)	Type	ID	Name	Thickness	Net
<b>SLA - 002, Slab</b>						
	Slab	Finish	IC-00	GENERIC - INTERNAL CLADDING	0.10	11.77
	Slab	Core	ST-00	GENERIC - STRUCTURAL	0.20	23.55
						35.32 m³
<b>SLA - 003, Slab</b>						
	Slab	Finish	IC-03	Tile - Floor	0.01	3.23
	Slab	Other	EF-01	Concrete	0.05	16.30
	Slab	Other	IN-04	Insulation - Mineral Hard	0.03	9.78
	Slab	Core	ST-06	Reinforced Concrete - Structural	0.20	69.24
	Slab	Finish	IC-01	Plaster - Gypsum	0.01	3.46
						102.01 m³
<b>SLA - 005, Slab</b>						
	Slab	Finish	IC-00	GENERIC - INTERNAL CLADDING	0.10	32.79
	Slab	Core	ST-00	GENERIC - STRUCTURAL	0.20	65.58
						98.37 m³
<b>SW - 026, Wall</b>						
	Wall	Finish	IC-01	Plaster - Gypsum	0.01	0.37
	Wall	Core	ST-02	Brick - Structural	0.10	1.61
						1.98 m³
<b>SW - 027, Wall</b>						
	Wall	Finish	IC-01	Plaster - Gypsum	0.01	0.68
	Wall	Core	ST-02	Brick - Structural	0.10	2.85
						3.53 m³
<b>SW - 028, Wall</b>						
	Wall	Finish	EC-00	GENERIC - EXTERNAL CLADDING	0.05	11.08
	Wall	Core	ST-00	GENERIC - STRUCTURAL	0.18	38.60
						49.68 m³
<b>SW - 030, Wall</b>						
	Wall	Finish	IF-02	Gypsum Plasterboard	0.01	0.42
	Wall	Core	IF-01	Air Space - Frame	0.08	1.31
						1.73 m³
<b>SW - 031, Wall</b>						
	Wall	Finish	IF-02	Gypsum Plasterboard	0.01	0.56
	Wall	Core	IF-01	Air Space - Frame	0.08	1.76
						2.32 m³
<b>SW - 033, Wall</b>						
	Wall	Finish	IF-02	Gypsum Plasterboard	0.01	0.33
	Wall	Core	IF-01	Air Space - Frame	0.08	1.04
						1.37 m³
<b>SW - 034, Wall</b>						
	Wall	Finish	EC-00	GENERIC - EXTERNAL CLADDING	0.05	2.23
	Wall	Core	ST-00	GENERIC - STRUCTURAL	0.18	7.65
						9.88 m³
<b>SW - 035, Wall</b>						
	Wall	Finish	IF-02	Gypsum Plasterboard	0.01	0.31
	Wall	Core	IF-01	Air Space - Frame	0.08	0.96
						1.27 m³
<b>SW - 036, Wall</b>						
	Wall	Finish	IC-01	Plaster - Gypsum	0.01	0.11
	Wall	Core	ST-02	Brick - Structural	0.10	0.43
						0.54 m³
<b>SW - 037, Wall</b>						
	Wall	Finish	IC-01	Plaster - Gypsum	0.01	0.52
	Wall	Core	ST-02	Brick - Structural	0.10	2.20
						2.72 m³
<b>SW - 038, Wall</b>						
	Wall	Finish	IC-01	Plaster - Gypsum	0.01	0.12
	Wall	Core	ST-02	Brick - Structural	0.10	0.54
						0.66 m³
<b>SW - 041, Wall</b>						
	Wall	Finish	EC-00	GENERIC - EXTERNAL CLADDING	0.05	2.23
	Wall	Core	ST-00	GENERIC - STRUCTURAL	0.18	7.68
						9.91 m³
<b>SW - 042, Wall</b>						
	Wall	Finish	IF-02	Gypsum Plasterboard	0.01	1.02
	Wall	Core	IF-01	Air Space - Frame	0.08	3.22
						4.24 m³
						3.67 m³
						325.53 m³
						314.72 m³

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**Power Distribution Units:** 5  
**Heat:** 2 Air Cooling Units (Server Room)  
**Floor:** 600mm Raised Access (Server Room)  
**Back-up power:** Yes  
**Fire-safety:** Yes

Drawing Name  
**Components by Elements**

Designed by  
 Eng. E.N. Mar-2026

Drawing Scale  
**1:1**

Layout ID Revision  
**A.06.2.2**

Parent Element		Components by Layer				Volume [m3]	
Layer	Type	Element ID	ID	Name	Thickness	Gross	Net
<b>Structural - Bearing</b>							
Slab	SLA	002	IC-00	GENERIC - INTERNAL CLADDING	0.10	11.77	11.77
Slab	SLA	002	ST-00	GENERIC - STRUCTURAL	0.20	23.55	23.55
Slab	SLA	003	IC-03	Tile - Floor	0.01	3.23	3.23
Slab	SLA	003	EF-01	Concrete	0.05	16.30	16.30
Slab	SLA	003	IN-04	Insulation - Mineral Hard	0.03	9.78	9.78
Slab	SLA	003	ST-06	Reinforced Concrete - Structural	0.20	69.24	69.24
Slab	SLA	003	IC-01	Plaster - Gypsum	0.01	3.46	3.46
Slab	SLA	005	IC-00	GENERIC - INTERNAL CLADDING	0.10	32.79	32.79
Slab	SLA	005	ST-00	GENERIC - STRUCTURAL	0.20	65.58	65.58
Wall	SW	028	EC-00	GENERIC - EXTERNAL CLADDING	0.05	11.08	9.36
Wall	SW	028	ST-00	GENERIC - STRUCTURAL	0.18	38.60	32.59
Wall	SW	027	IC-01	Plaster - Gypsum	0.01	0.68	0.68
Wall	SW	027	ST-02	Brick - Structural	0.10	2.85	2.85
Wall	SW	026	IC-01	Plaster - Gypsum	0.01	0.37	0.32
Wall	SW	026	ST-02	Brick - Structural	0.10	1.61	1.42
Wall	SW	030	IF-02	Gypsum Plasterboard	0.01	0.42	0.36
Wall	SW	030	IF-01	Air Space - Frame	0.08	1.31	1.17
Wall	SW	034	EC-00	GENERIC - EXTERNAL CLADDING	0.05	2.23	1.96
Wall	SW	034	ST-00	GENERIC - STRUCTURAL	0.18	7.65	6.71
Wall	SW	031	IF-02	Gypsum Plasterboard	0.01	0.56	0.56
Wall	SW	031	IF-01	Air Space - Frame	0.08	1.76	1.76
Wall	SW	033	IF-02	Gypsum Plasterboard	0.01	0.33	0.28
Wall	SW	033	IF-01	Air Space - Frame	0.08	1.04	0.90
Wall	SW	035	IF-02	Gypsum Plasterboard	0.01	0.31	0.31
Wall	SW	035	IF-01	Air Space - Frame	0.08	0.96	0.96
Wall	SW	036	IC-01	Plaster - Gypsum	0.01	0.11	0.11
Wall	SW	036	ST-02	Brick - Structural	0.10	0.43	0.43
Wall	SW	037	IC-01	Plaster - Gypsum	0.01	0.52	0.52
Wall	SW	037	ST-02	Brick - Structural	0.10	2.20	2.20
Wall	SW	038	IC-01	Plaster - Gypsum	0.01	0.12	0.12
Wall	SW	038	ST-02	Brick - Structural	0.10	0.54	0.54
Wall	SW	041	EC-00	GENERIC - EXTERNAL CLADDING	0.05	2.23	2.08
Wall	SW	041	ST-00	GENERIC - STRUCTURAL	0.18	7.68	7.16
Wall	SW	042	IF-02	Gypsum Plasterboard	0.01	1.02	0.88
Wall	SW	042	IF-01	Air Space - Frame	0.08	3.22	2.79
<b>Grand Total:</b>						<b>325.53 m³</b>	<b>314.72 m³</b>

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**Fire-safety:** Yes

Drawing Name  
**Components by Layers**

Designed by  
 Eng. E.N. Mar-2026

Drawing Scale  
**1:1**

Layout ID Revision  
**A.06.2.3**

Components by Type								
Component				Parent Element		Component Volume (m3)		
Type	ID	Name	Thickness	Type	Element ID	Classification (Element)	Gross	Net
<b>Core</b>								
ST-00		GENERIC - STRUCTURAL	0.20	Slab	SLA - 002	Slab	23.55	23.55
ST-06		Reinforced Concrete - Structural	0.20	Slab	SLA - 003	Slab	69.24	69.24
ST-00		GENERIC - STRUCTURAL	0.20	Slab	SLA - 005	Slab	65.58	65.58
ST-00		GENERIC - STRUCTURAL	0.18	Wall	SW - 028	Wall	38.60	32.59
ST-02		Brick - Structural	0.10	Wall	SW - 027	Wall	2.85	2.85
ST-02		Brick - Structural	0.10	Wall	SW - 026	Wall	1.61	1.42
IF-01		Air Space - Frame	0.08	Wall	SW - 030	Wall	1.31	1.17
ST-00		GENERIC - STRUCTURAL	0.18	Wall	SW - 034	Wall	7.65	6.71
IF-01		Air Space - Frame	0.08	Wall	SW - 031	Wall	1.76	1.76
IF-01		Air Space - Frame	0.08	Wall	SW - 033	Wall	1.04	0.90
IF-01		Air Space - Frame	0.08	Wall	SW - 035	Wall	0.96	0.96
ST-02		Brick - Structural	0.10	Wall	SW - 036	Wall	0.43	0.43
ST-02		Brick - Structural	0.10	Wall	SW - 037	Wall	2.20	2.20
ST-02		Brick - Structural	0.10	Wall	SW - 038	Wall	0.54	0.54
ST-00		GENERIC - STRUCTURAL	0.18	Wall	SW - 041	Wall	7.68	7.16
IF-01		Air Space - Frame	0.08	Wall	SW - 042	Wall	3.22	2.79
Total:							228.22 m³	219.85 m³
<b>Finish</b>								
IC-00		GENERIC - INTERNAL CLADDING	0.10	Slab	SLA - 002	Slab	11.77	11.77
IC-03		Tile - Floor	0.01	Slab	SLA - 003	Slab	3.23	3.23
IC-01		Plaster - Gypsum	0.01	Slab	SLA - 003	Slab	3.46	3.46
IC-00		GENERIC - INTERNAL CLADDING	0.10	Slab	SLA - 005	Slab	32.79	32.79
EC-00		GENERIC - EXTERNAL CLADDING	0.05	Wall	SW - 028	Wall	11.08	9.36
IC-01		Plaster - Gypsum	0.01	Wall	SW - 027	Wall	0.68	0.68
IC-01		Plaster - Gypsum	0.01	Wall	SW - 026	Wall	0.37	0.32
IF-02		Gypsum Plasterboard	0.01	Wall	SW - 030	Wall	0.42	0.36
EC-00		GENERIC - EXTERNAL CLADDING	0.05	Wall	SW - 034	Wall	2.23	1.96
IF-02		Gypsum Plasterboard	0.01	Wall	SW - 031	Wall	0.56	0.56
IF-02		Gypsum Plasterboard	0.01	Wall	SW - 033	Wall	0.33	0.28
IF-02		Gypsum Plasterboard	0.01	Wall	SW - 035	Wall	0.31	0.31
IC-01		Plaster - Gypsum	0.01	Wall	SW - 036	Wall	0.11	0.11
IC-01		Plaster - Gypsum	0.01	Wall	SW - 037	Wall	0.52	0.52
IC-01		Plaster - Gypsum	0.01	Wall	SW - 038	Wall	0.12	0.12
EC-00		GENERIC - EXTERNAL CLADDING	0.05	Wall	SW - 041	Wall	2.23	2.08
IF-02		Gypsum Plasterboard	0.01	Wall	SW - 042	Wall	1.02	0.88
Total:							71.23 m³	68.79 m³
<b>Other</b>								
EF-01		Concrete	0.05	Slab	SLA - 003	Slab	16.30	16.30
IN-04		Insulation - Mineral Hard	0.03	Slab	SLA - 003	Slab	9.78	9.78
Total:							26.08 m³	26.08 m³
Grand Total:							325.53 m³	314.72 m³

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**Fire-safety:** Yes

Drawing Name  
**Components by Type**

Designed by  
 Eng. E.N. Mar-2026

Drawing Scale  
**1:1**

Layout ID Revision  
**A.06.2.4**