



Typical configuration shown (not site specific).

A typical site preparation package consists of the following document(s):

- 1. Typical site preparation specifications
- 2. Typical site preparation drawings

Important note:
This package provides only indicative information intended for use in very early project phases to provide an impression of room set ups and required site preparation. Any information, figure or value shown is not necessarily applicable, accurate and/or up-to-date. Your Philips contact can arrange Room Designs and Site preparation specifications for your specific situation.

2. Typical site preparation drawings

Table of contents

Sheet	Type	Subject
General		
1	C-1	Cover sheet . Table of contents
2	A-1	Site layout / Equipment legend
3	AL-1	Site requirements
4	AD-1	Schematic cross section(s)
Building works		
5	X-1	Floor provisions (all disciplines)
6	X-2	Ceiling provisions (all disciplines)
7	X-3	Wall provisions (all disciplines)
Technical details		
8	XD-1	Details 1 (all disciplines)
9	XD-2	Details 2 (all disciplines)
10	XD-3	Details 3 (all disciplines)
11	XD-4	Details 4 (all disciplines)
Document history		
12	H-1	Document history 1
13	H-2	Document history 2

Revision History

H	
G	
F	
E	
D	
C	
B	
A	
0	01-09-2025

Rev	Date	DRW	CHK	PROJ. PHASE	DESCRIPTION
					The document is based on the template: S722229F Azurion 3 F12 R3, Rev.7.0

Important notes

Philips contact Customer ID Tech ID

Philips Healthcare
Project Management

Project

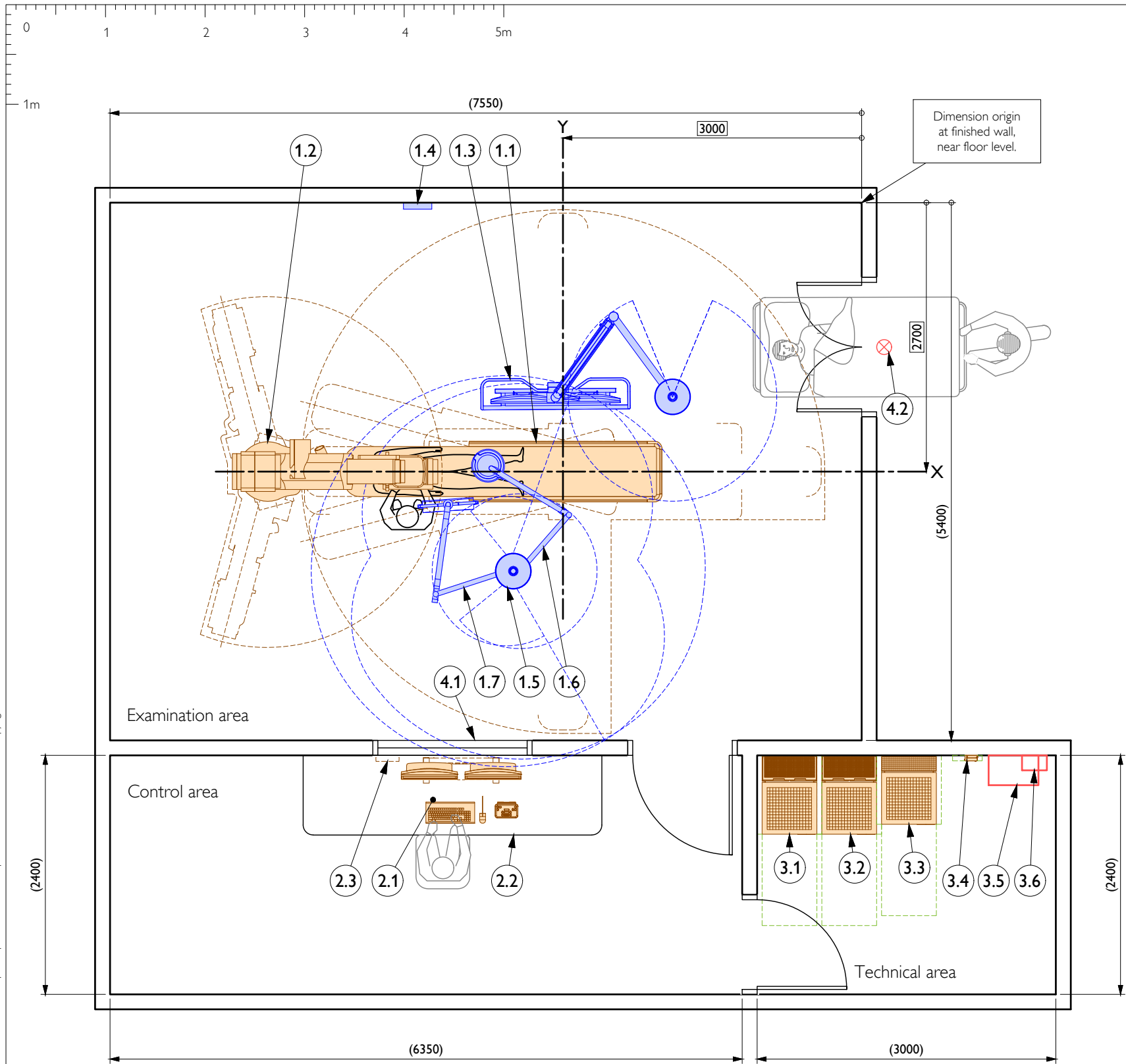
Azurion 3 M12
S722229F_Azurion 3 F12 R3_Rev4.0_TSPD

Sheet subject

Cover sheet
Table of contents

Drawing

A3 mm
C-1
Sheet 1 / 13



Legend

	Walls
	New walls
	Existing doors/walls to be removed
	Beams or other building construction elements
	Columns (materials and strength unknown)
	Preferred service area

Dimensioning legend

	System position dimension (ISO-centre)
	Architectural dimension to be checked on site
	Dimension from origin

Azurion 3 F12

Resp	No	Description	Mass [kg]	Heat [W]	Noise [dB]
<i>Examination Area (Basic system excluding options)</i>				1300	45-60
A	1.1	Patient table (AD7 pivot)	450	-	-
A	1.2	Poly-G FD12 floor	873	-	-
C	1.3	Monitor ceiling suspension 2 Fold	205	-	-
A	1.4	Auxiliary connection box (ACB)	3	-	-
C	1.5	Fixed column 800mm	22	-	-
A	1.6	Examination Lamp mounted on fixed column	14	-	-
A	1.7	Radiation shield mounted on fixed column	20	-	-
<i>Control Area (Basic system excluding options)</i>				550	<50
A	2.1	Basic control room (2x 24" monitor)	33	-	-
B	2.2	Table top	-	-	-
A	2.3	Control Room Equipment Adapter (CREA)	2	-	-
<i>Technical Area (Basic system excluding options)</i>				2400	68
A	3.1	Main cabinet with Cabinet Rear Cover Deep	375	-	-
A	3.2	Imaging cabinet with Cabinet Rear Cover Deep	225	-	-
A	3.3	Generator cabinet with Cabinet Rear cover	145	-	-
A	3.4	ServiceHub	3	-	-
B	3.5	Mains switch	-	-	-
B	3.6	Earth reference terminal	-	-	-
<i>General</i>					
B	4.1	Lead glass window	-	-	-
B	4.2	X-ray ON warning light	-	-	-

Note:
Add 38 W for each additional video input/output adapter in Technical Room, Examination Room or Control Room.

Responsibilities:

- A Delivered and installed by Philips
- B Delivered and installed by customer
- C Delivered by Philips and installed by customer
- D Delivered by customer and installed by Philips
- E Existing

Project notes

- The feasibility of this project is based on site information (like drawings) provided to Philips. Philips cannot assume any liability for the accuracy of this information and the consequences.
- The equipment proposed in this room layout produces X-ray radiation. It is the customer's responsibility to comply with the local regulation. Normally X-ray shielding has to be applied to avoid hazards to patients, visitors and staff. Consult the Philips contact for details and support.

Site requirements (Rel. 3.x)

- Mains power**
Main cabinet:
- Input Ratings for the M-cabinet (L1,L2,L3,PE)
 - 3~380V ± 10 %, 80A...125A, 50/60Hz
 - 3~400V ± 10 %, 76A...125A, 50/60Hz
 - 3~415V ± 10 %, 73A...125A, 50/60Hz
 - 3~440V ± 10 %, 69A...125A, 50/60Hz
 - 3~480V ± 10 %, 63A...125A, 50/60Hz
 - Hospital mains fuse: 63A-125A with gG characteristics (slow blow).
 - Input wiring at least: 13.3mm², max. 67.4mm².
 - Maximum required power: 100 kVA.
 - Peak currents max. 8.33ms.
 - All connected phase wires shall have an upstream disconnect switch with a rating of <=125A.
 - Mains supply impedance, requirements at mains switch:
 - 380V , 50/60Hz, max.74mΩ
 - 400V , 50/60Hz, max.140mΩ
 - 415V , 50/60Hz, max.215mΩ
 - 440V , 50/60Hz, max.325mΩ
 - 480V , 50/60Hz, max.465mΩ
- If the mains resistance can't be met, an additional transformer is required.

Remote service diagnostics
To establish this feature, a RJ45 type Ethernet connector must be installed with access to the customer's network (10/100/1000 Mbps).

Environmental requirements
Operating temperature range is 10°C - 30°C,
at 20% - 80% relative humidity (non-condensing).

In case of UPS/Battery in the technical room, operating temperature must be 15 - 25°C.

Project
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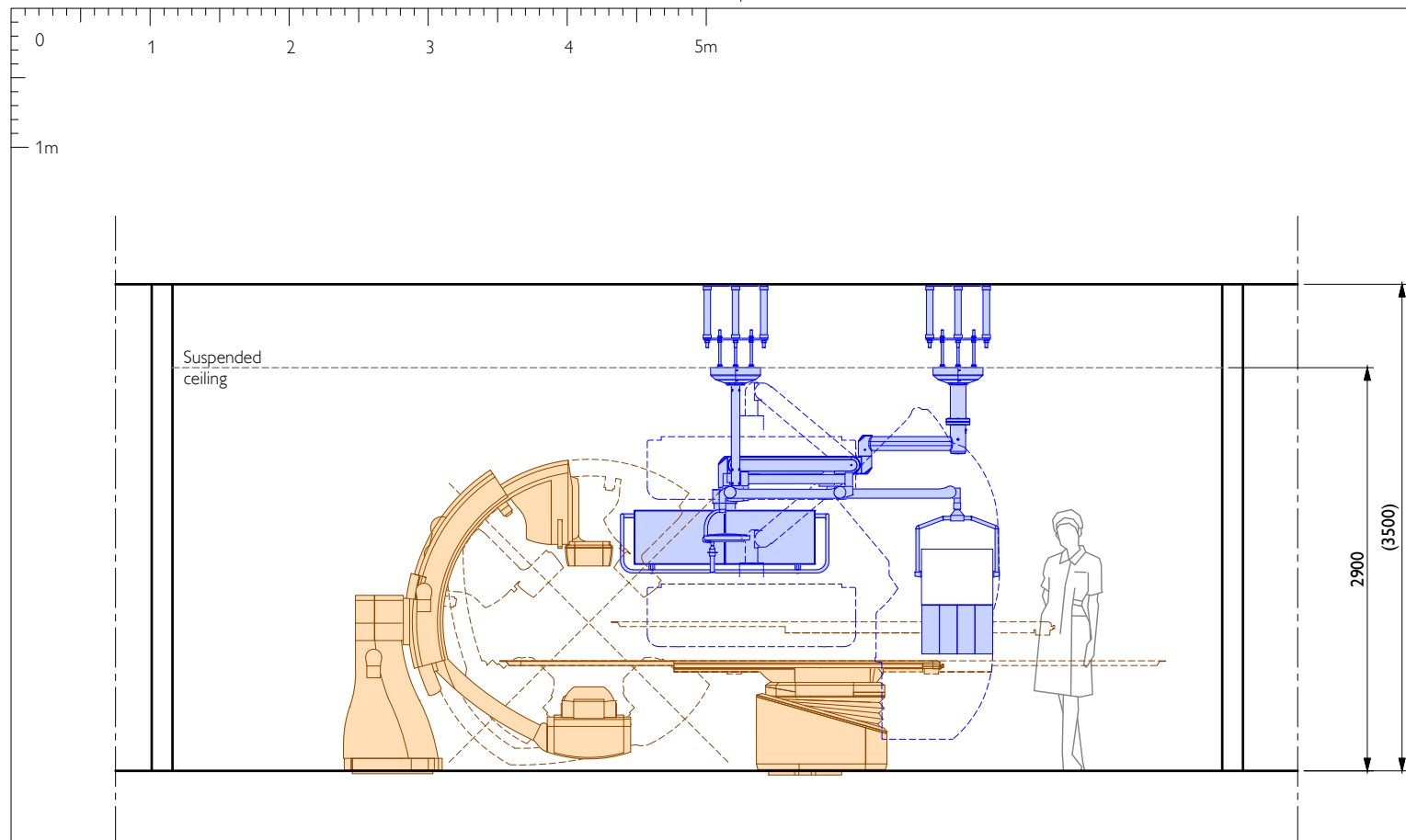
Sheet subject
Site requirements

Drawing
A3
Sheet

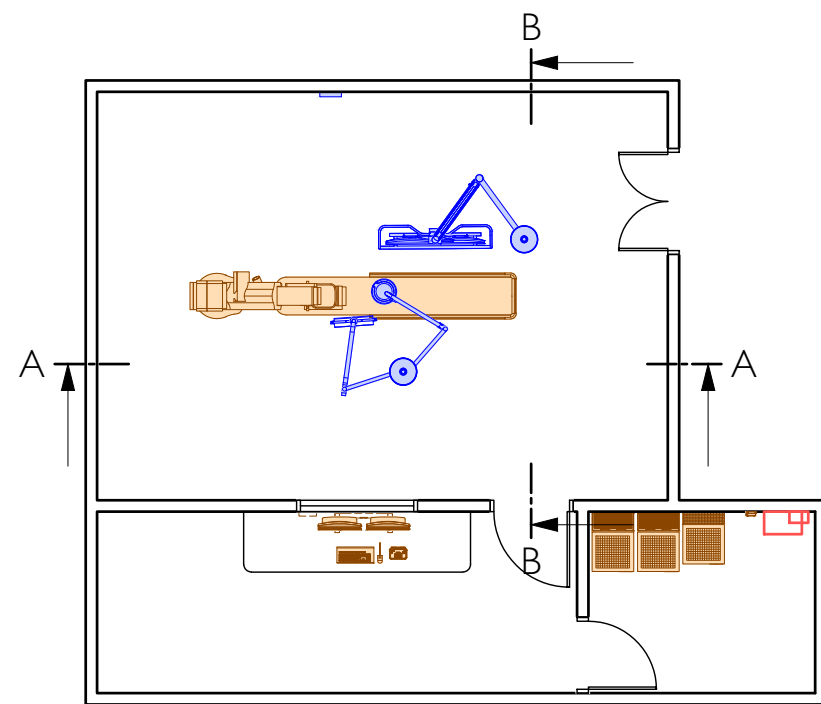
1 : 50 mm
AL-1
3 / 13

Label quote
Label order
Label Tech id

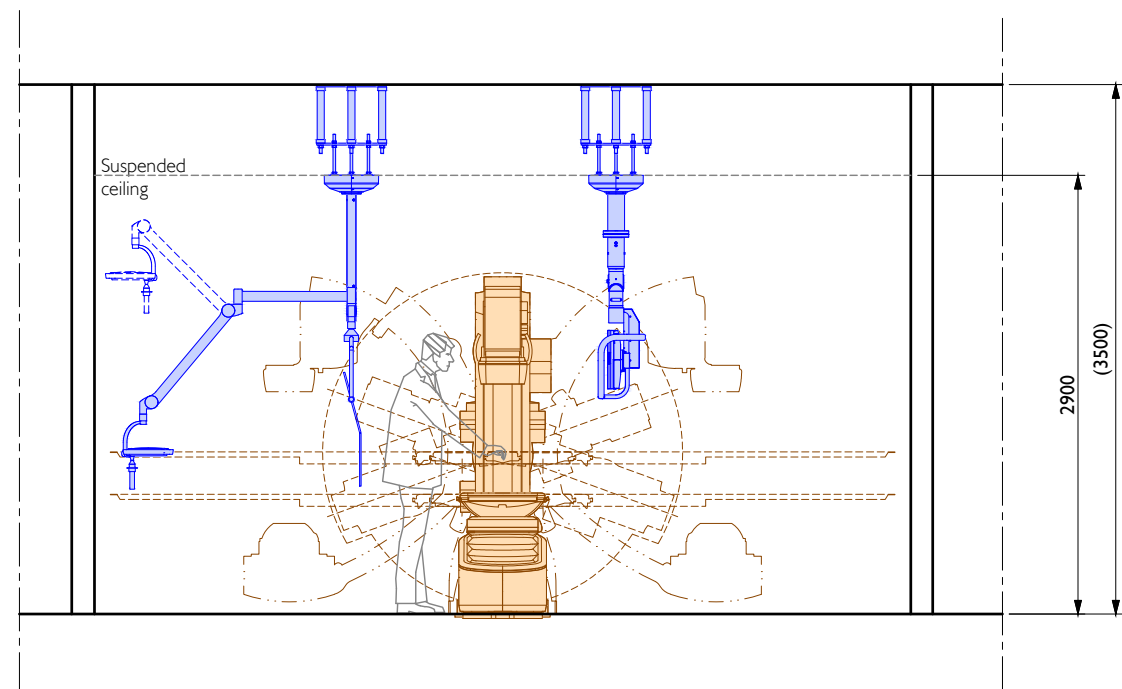




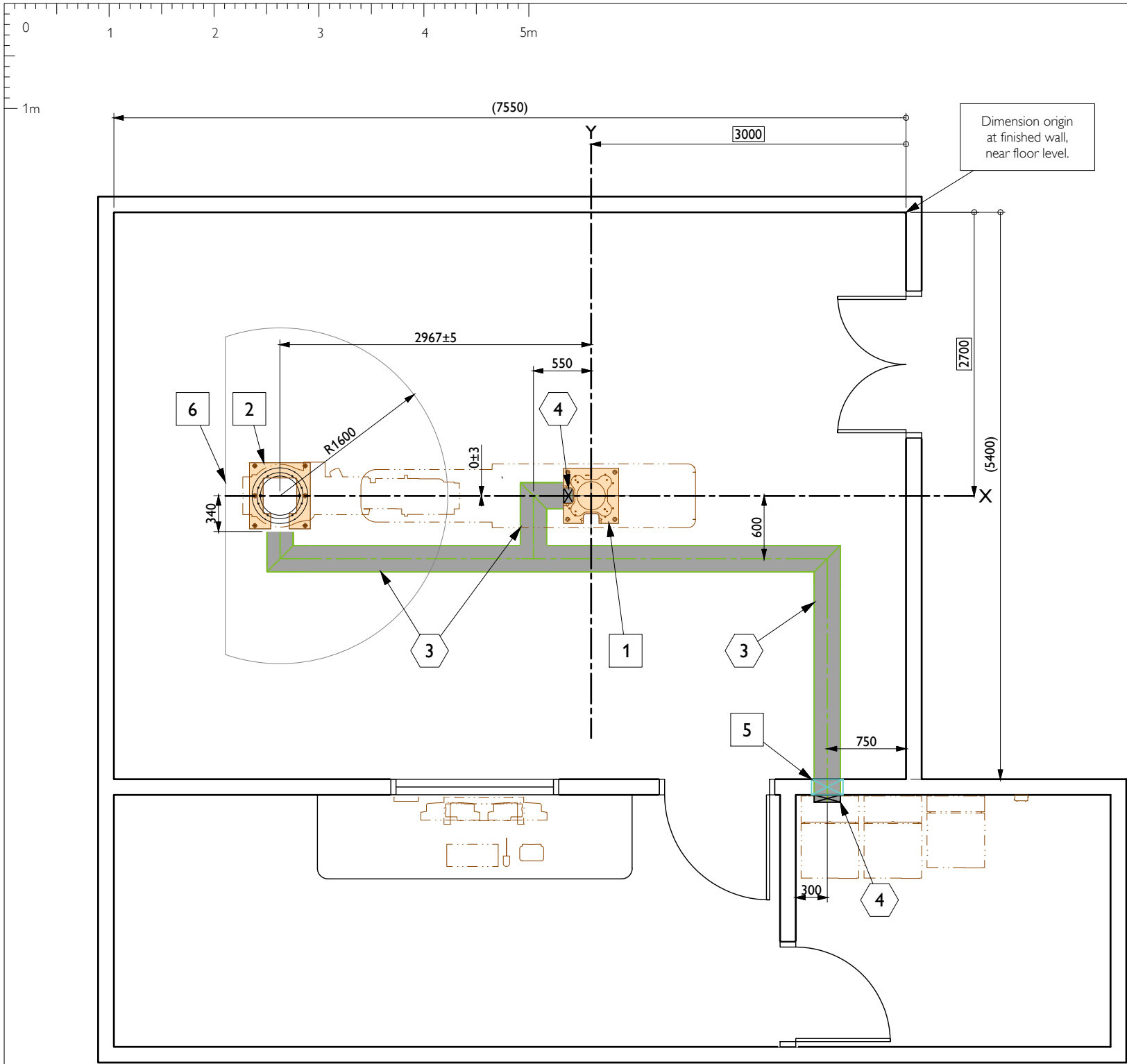
Schematic cross section A-A



Overview (scale 1:100)



Schematic cross section B-B

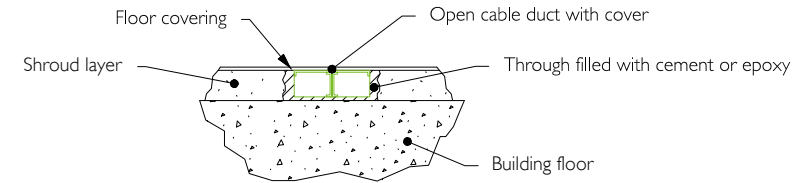


Legend

- Walls
- New walls
- Existing doors/walls to be removed
- Beams or other building construction elements
- Columns (materials and strength unknown)
- Preferred service area

Dimensioning legend

- System position dimension (ISO-centre)
- Architectural dimension to be checked on site
- Dimension from origin



Typical floor duct installation (not to scale)

Item list:

Resp	No	Description	Qty	Detail	Textref
C	1	Floor plate provisions for patient table	1	XD-1	§ 2.2
C	2	Floor plate provisions for Poly G	1	XD-1	§ 2.2
B	3	250 x 60 Floor duct flush mounted	-	-	§ 3.3
B	4	Cable outlet	2	-	-
B	5	Wall opening	1	-	-
B	6	Floor levelness area +/- 5mm	-	-	-

Responsibilities:

- A Delivered and installed by Philips
- B Delivered and installed by customer
- C Delivered by Philips and installed by customer
- D Delivered by customer and installed by Philips
- E Existing

Works symbology

- Construction works
- Electrical works
- Mechanical works
- Equipment works

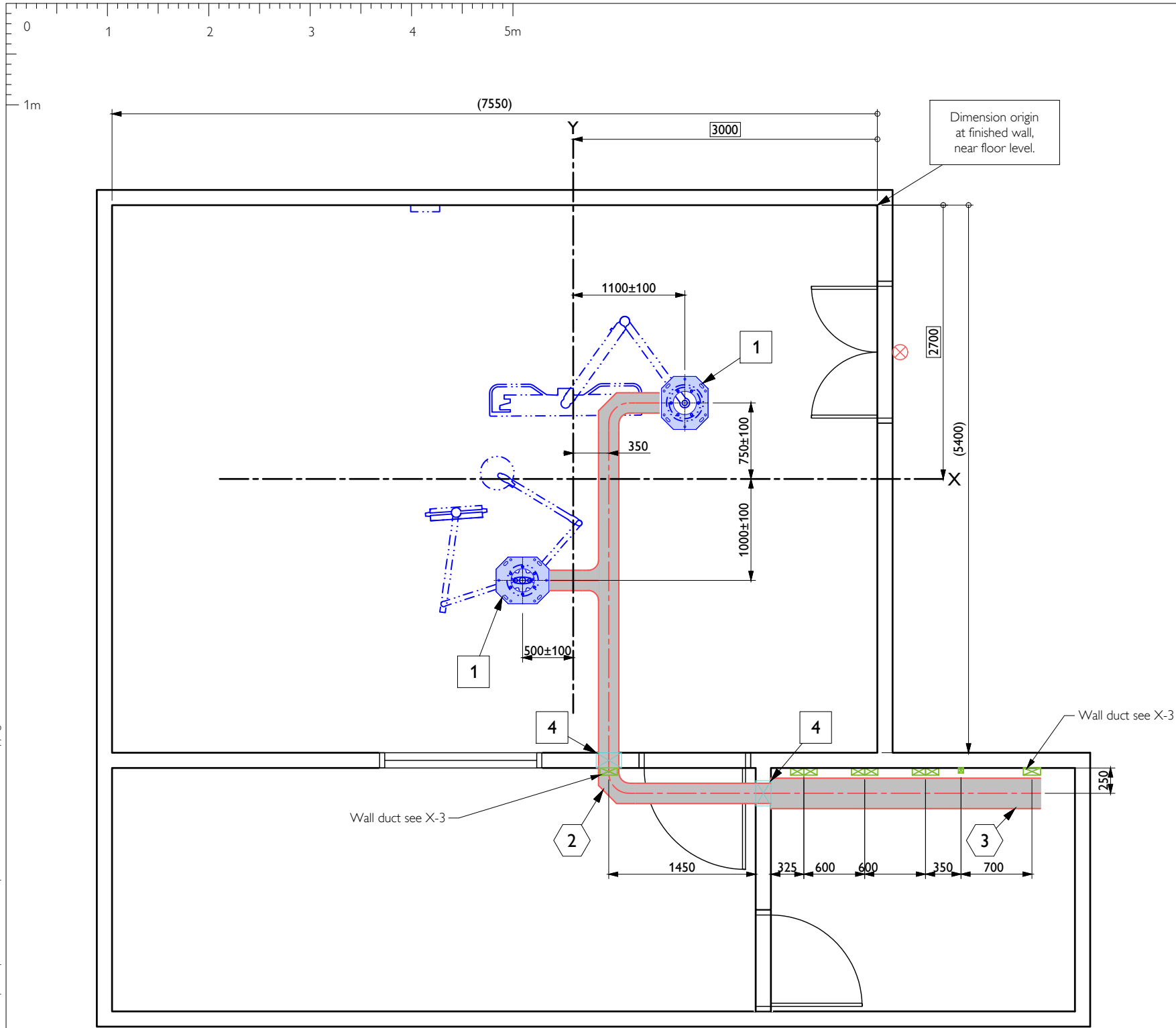
Project
Azurion 3 M12
S722229F_Azurion 3 F12 R3_Rev4.0_TSPD

Sheet subject
Floor provisions
(all disciplines)

Drawing

A3 1 : 50 mm
X-1
Sheet 5 / 13

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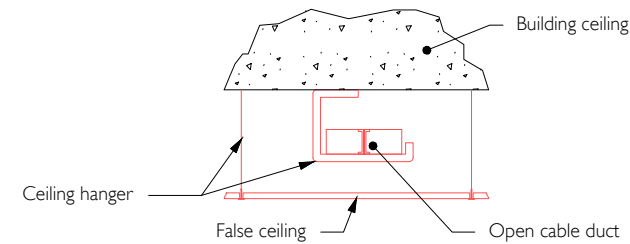
Legend

- Walls
- New walls
- Existing doors/walls to be removed
- Beams or other building construction elements
- Columns (materials and strength unknown)
- Preferred service area

Dimensioning legend

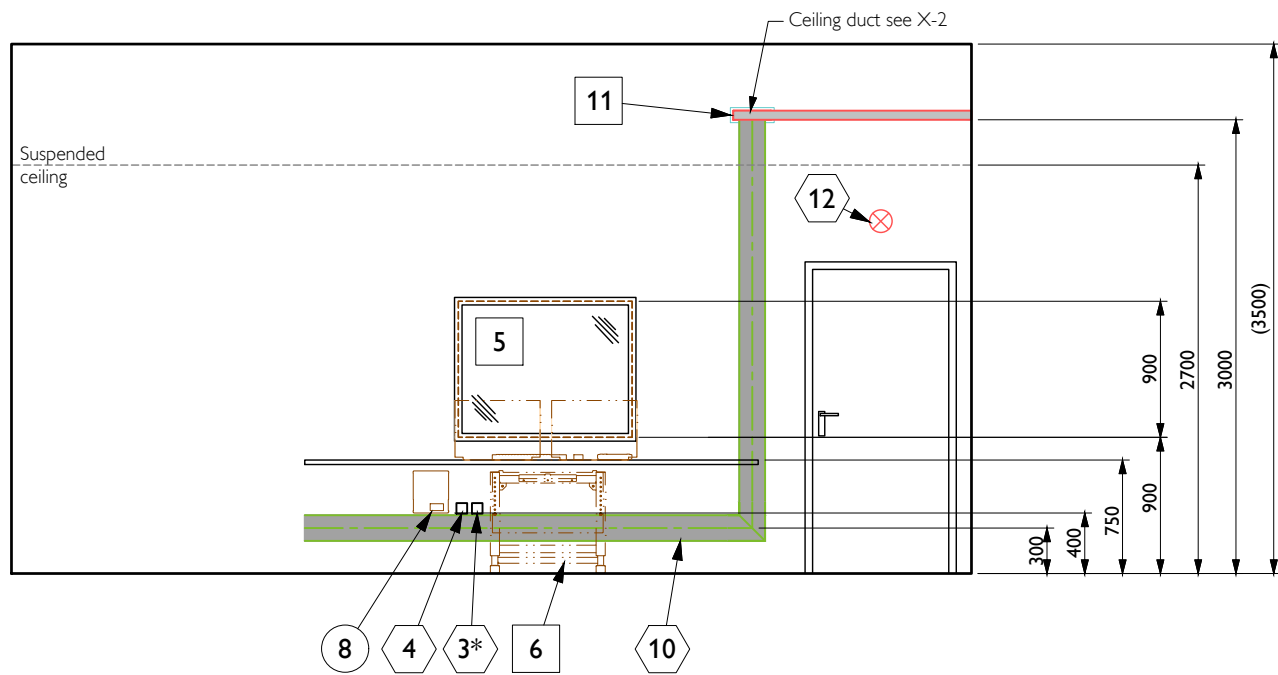
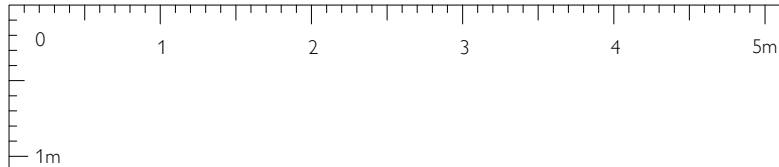
- System position dimension (ISO-centre)
- Architectural dimension to be checked on site
- Dimension from origin

*Network connection (point-to-point, for service) :
It is not allowed to route the network cable of ServiceHub through the cable duct used for the X-ray system cabling. A dedicated cable duct is needed or it can be routed together with local cabling, e.g. for x-ray room lights, door lights.

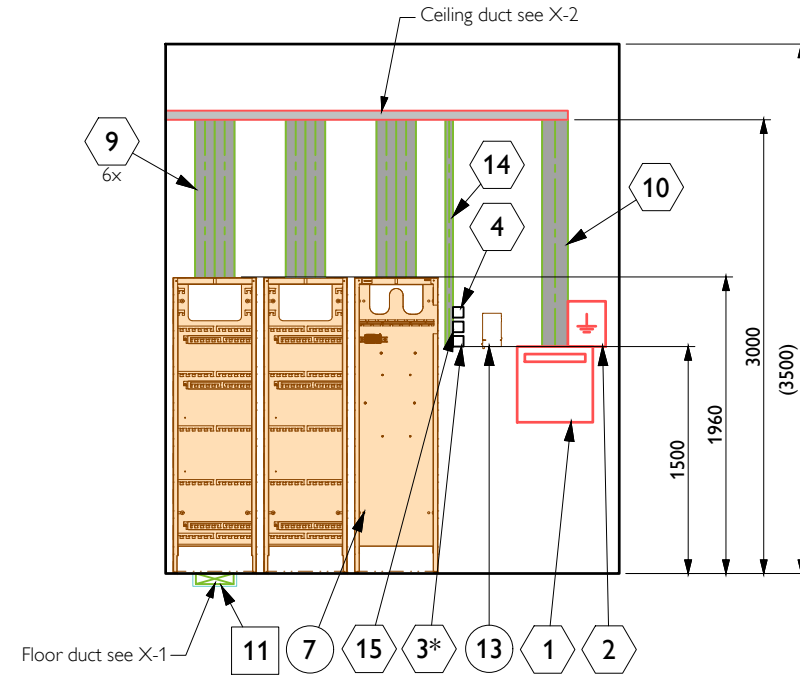


Typical ceiling duct installation (not to scale)

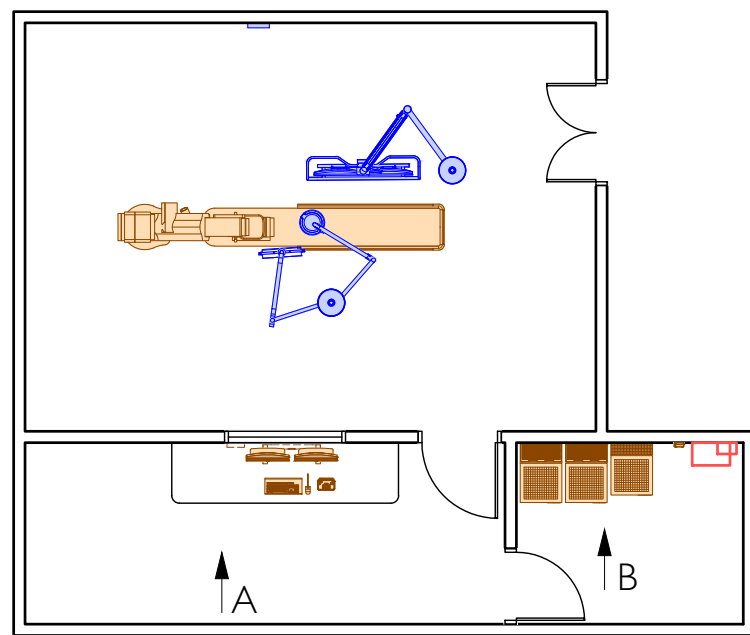
Item list:					
Resp	No	Description	Qty	Detail	Textref
C	1	Pre-installation frame	2	XD-2	§ 2.3
B	2	200 x 60 Cable duct above suspended ceiling	-	-	§ 3.3
B	3	300 x 60 Cable duct above suspended ceiling	-	-	§ 3.3
B	4	Wall opening	2	-	-
Responsibilities:					
A	Delivered and installed by Philips				
B	Delivered and installed by customer				
C	Delivered by Philips and installed by customer				
D	Delivered by customer and installed by Philips				
E	Existing				
Works symbology					
			Construction works		
			Electrical works		
			Mechanical works		
			Equipment works		



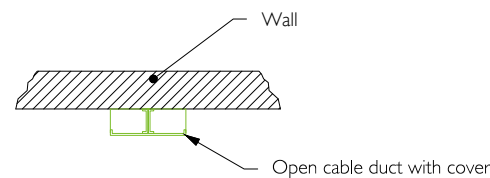
Elevation A



Elevation B



Overview (scale 1:100)



Typical wall duct installation (not to scale)

*Network connection (point-to-point, for service) :
It is not allowed to route the network cable of ServiceHub through the cable duct used for the X-ray system cabling. A dedicated cable duct is needed or it can be routed together with local cabling, e.g. for x-ray room lights, door lights.

Item list:

Resp	No	Description	Qty	Detail	Text ref
B	1	Mains switch	1	-	§ 3.2
B	2	Earth reference terminal	1	-	§ 3.2
B	3*	Network connection 100Mbps, RJ45 (service only)	2	-	§ 3.2
B	4	Power outlet (Philips dedicated)	2	-	§ 3.2
B	5	Lead glass window	1	-	§ 1.6
A	6	Bracket provisions for Control Room Junction Box	1	XD-4	-
A	7	Provisions for cabinet rear cover	12	XD-4	§ 2.4
A	8	Control Room Equipment Adapter (CREA) provisions	1	XD-4	-
B	9	130 x 70 Wall duct	-	-	§ 3.3
B	10	170 x 70 Wall duct	-	-	§ 3.3
B	11	Wall opening	2	-	-
B	12	X-ray ON warning light	1	-	§ 3.2
A	13	ServiceHub provisions	1	XD-3	-
B	14	50 x 50 Wall duct	-	-	§ 3.3
B	15	Network connection 100Mbps, RJ45	1	-	§ 3.2

Responsibilities:

- A Delivered and installed by Philips
- B Delivered and installed by customer
- C Delivered by Philips and installed by customer
- D Delivered by customer and installed by Philips
- E Existing

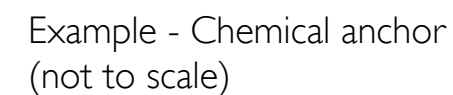
Works symbology

- Construction works
- Electrical works
- Mechanical works
- Equipment works

Project
Azurion 3 M12
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Sheet subject
Wall provisions
(all disciplines)

Drawing
A3 1:50 mm
X-3
Sheet 7 / 13

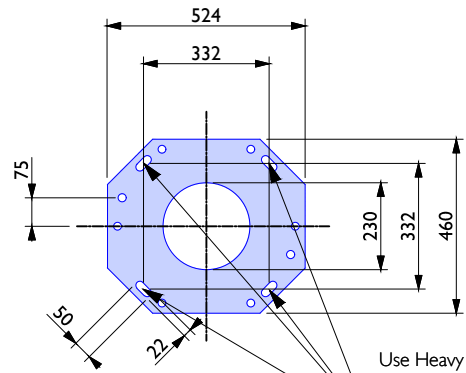


Responsibilities:

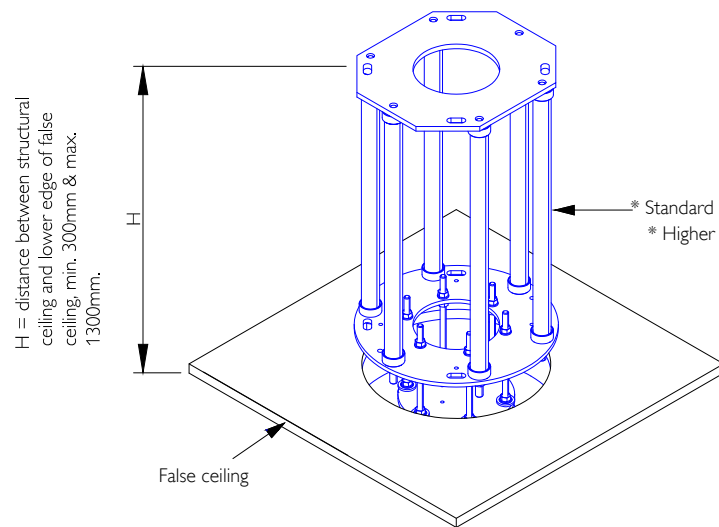
- A Delivered and installed by Philips
- B Delivered and installed by customer
- C Delivered by Philips and installed by customer
- D Delivered by customer and installed by Philips
- E Existing

Sheet subject
Details 1
(all disciplines)

A3 mm
XD-1
Sheet 8 / 13



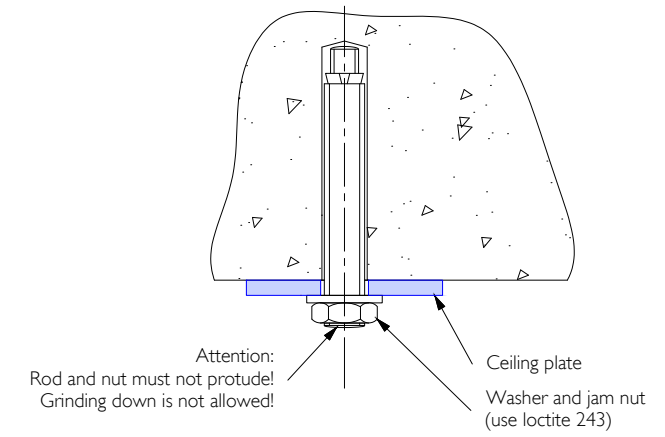
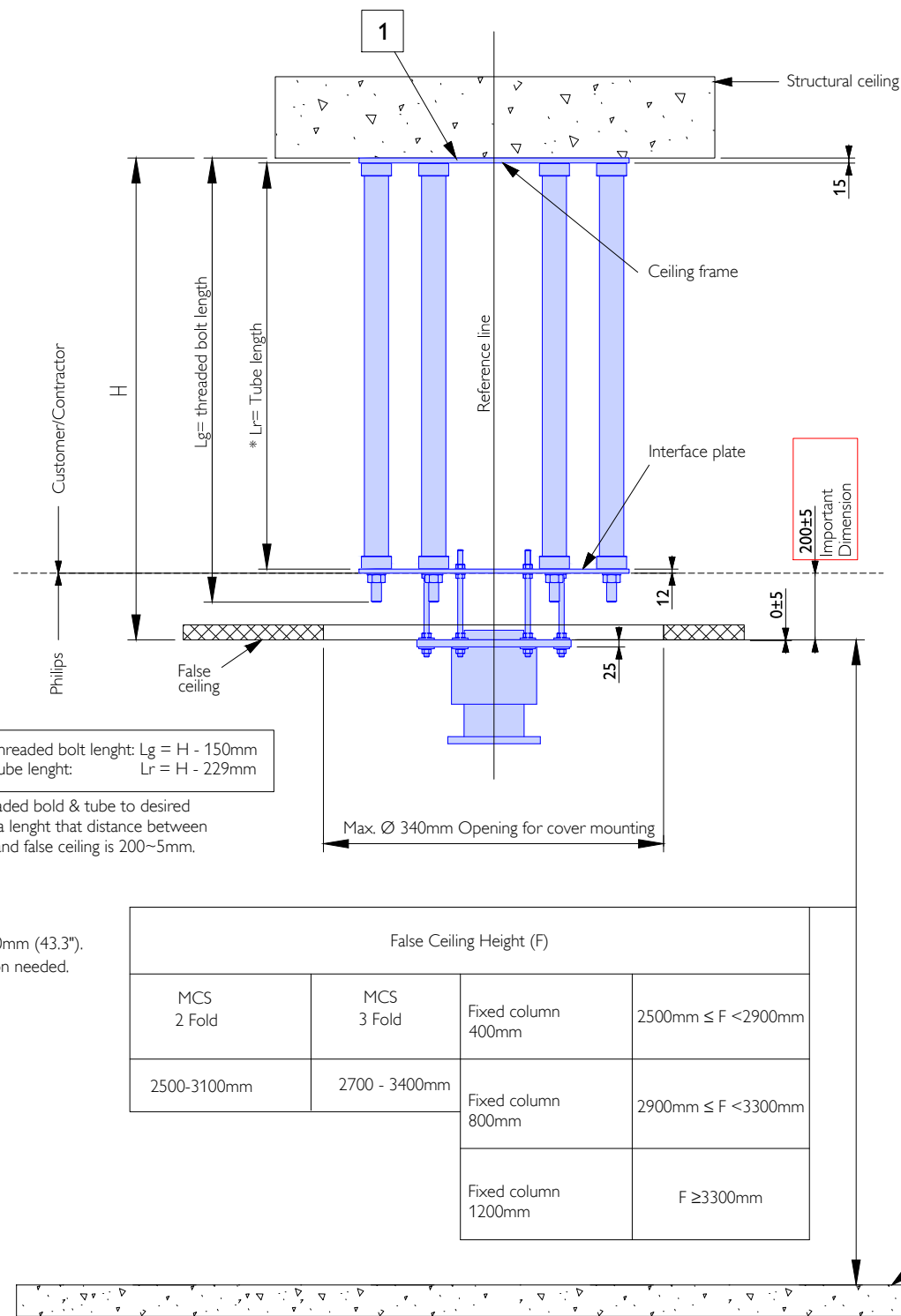
Detail - Top view ceilingplate
MCS 2 or 3 Fold and Fixed column(scale1:20)



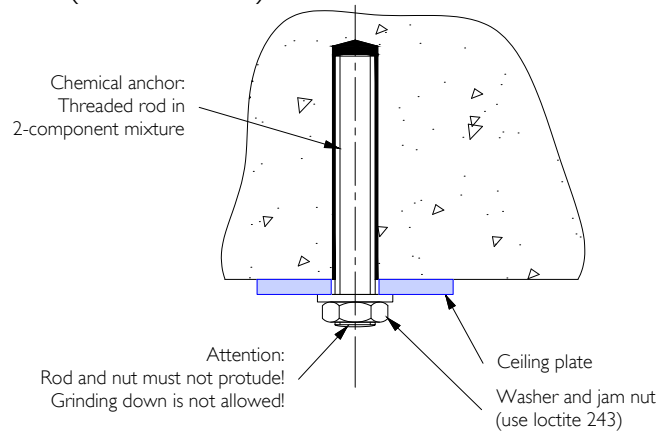
Detail - Preinstallation + Calculation length Ceilingplate MCS 2 or 3 Fold and Fixed column(no scale)

Calculation of threaded bolt length: $L_g = H - 150\text{mm}$
Calculation of tube length: $L_r = H - 229\text{mm}$

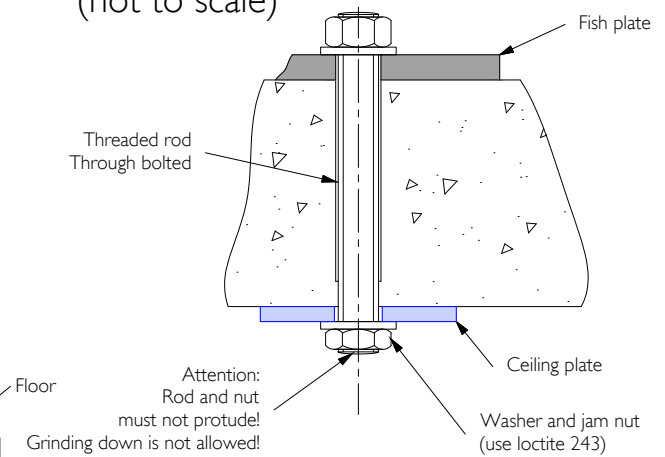
Note: Cut threaded bold & tube to desired length, to such a length that distance between interface plate and false ceiling is 200~5mm.



Example - Expansion anchor system
(not to scale)



Example - Chemical anchor system
(not to scale)



Example - Through bolting anchor system
(not to scale)

False Ceiling Height (F)			
MCS 2 Fold	MCS 3 Fold	Fixed column 400mm	$2500\text{mm} \leq F < 2900\text{mm}$
2500-3100mm	2700 - 3400mm	Fixed column 800mm	$2900\text{mm} \leq F < 3300\text{mm}$
		Fixed column 1200mm	$F \geq 3300\text{mm}$

Item list:					
Resp	No	Description	Qty	Detail	Textref
C	1	Ceiling plate provisions for MCS/Fixed column	1	-	§ 2.3
B	2	Suitable Anchoring system	4	-	§ 2.3

Responsibilities:

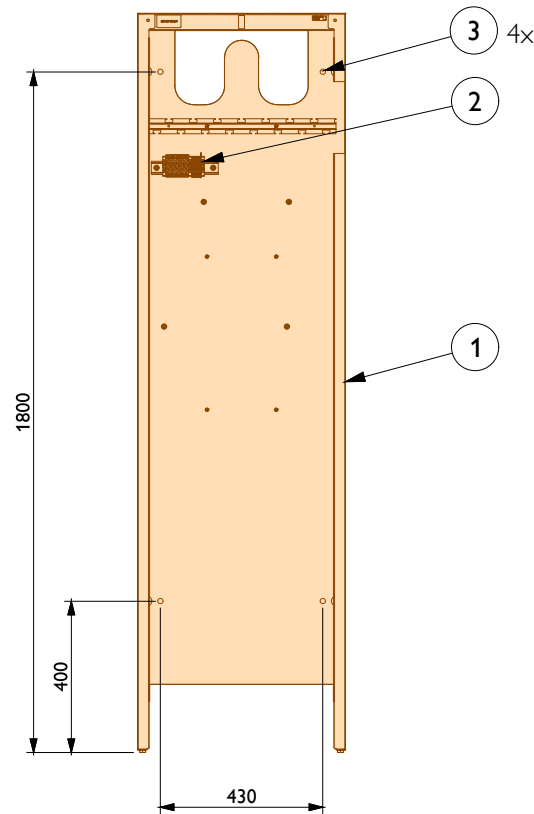
- A Delivered and installed by Philips
- B Delivered and installed by customer
- C Delivered by Philips and installed by customer
- D Delivered by customer and installed by Philips
- E Existing

Project
Azurion 3 M12
S722229F_Azurion 3 F12 R3_Rev4.0_TSPD

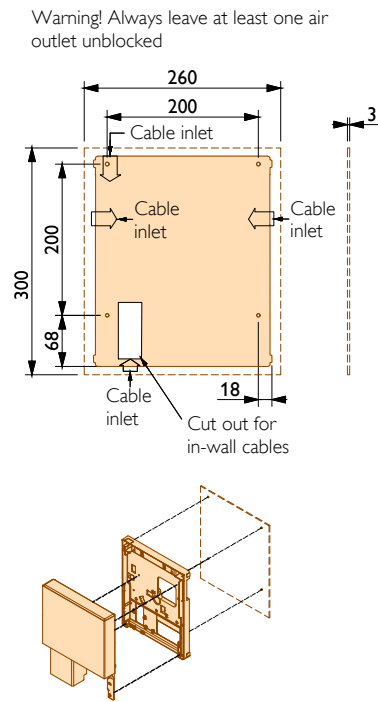
Sheet subject
Details 2
(all disciplines)

Drawing
A3
Sheet
Label quote
Label order
Label Tech id
XD-2
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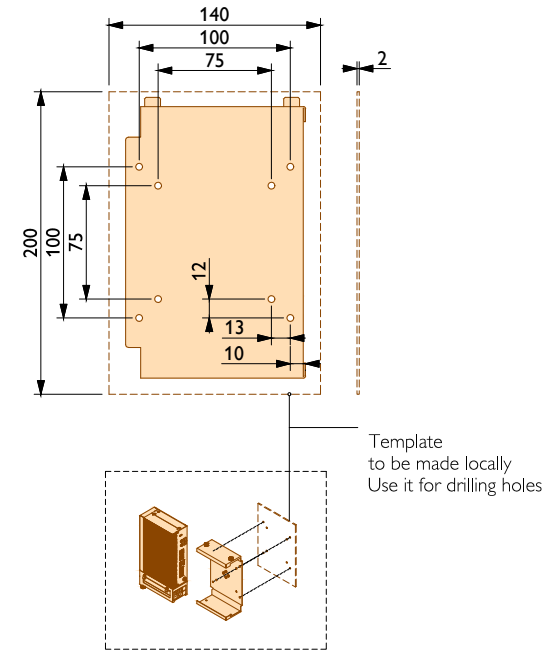
PHILIPS



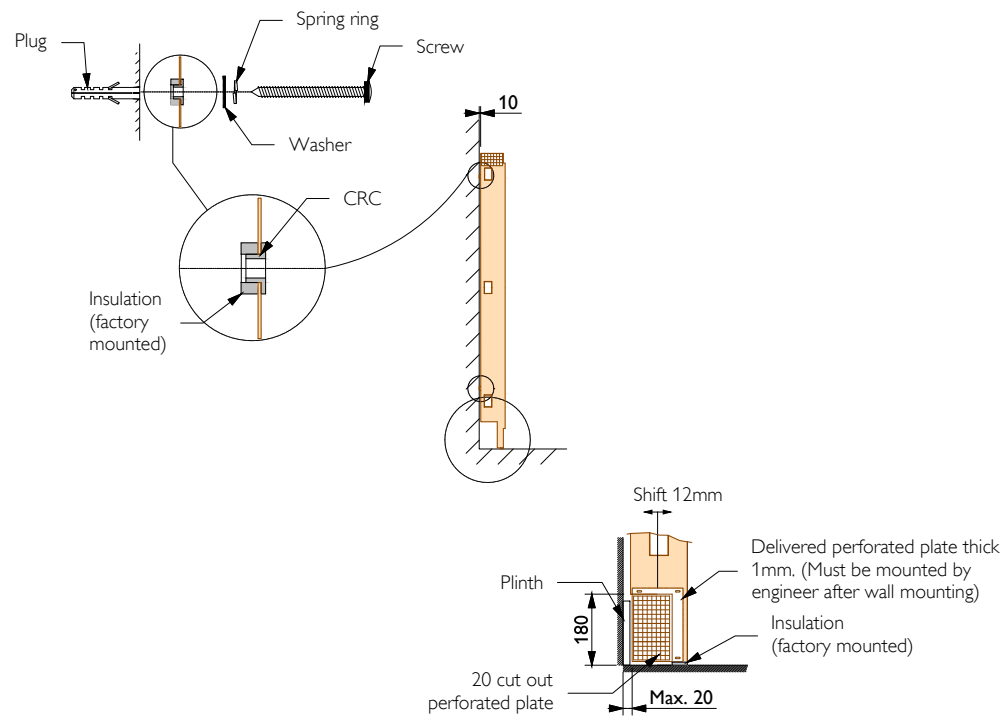
Detail - Wall mounting provision cabinets rear cover (scale 1:20)



Detail - AUXEA / CREA / AVO hole pattern for mounting (1:10)

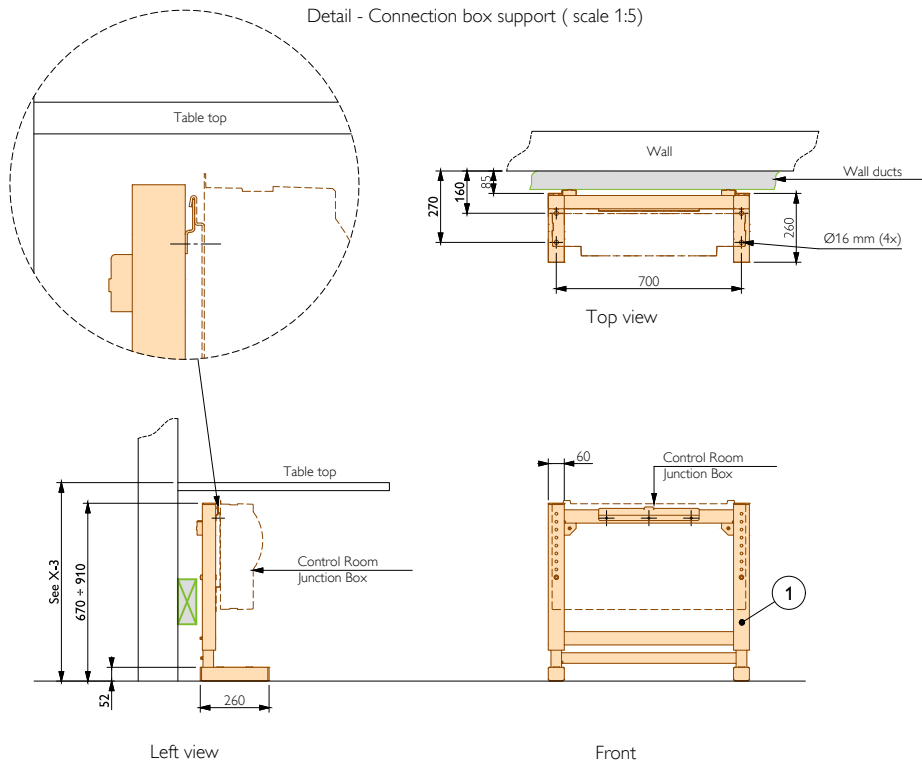


Detail - ServiceHub hole pattern for mounting (1:5)

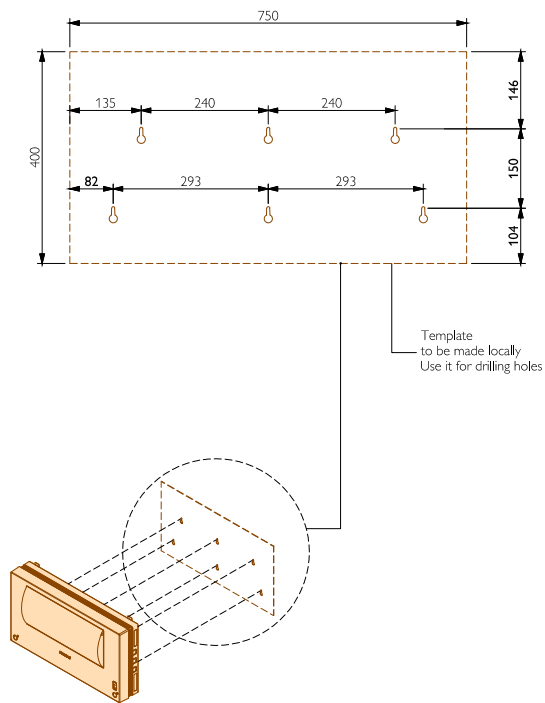


Detail - Wall mounting provision cabinets rear Cover (not to scale)

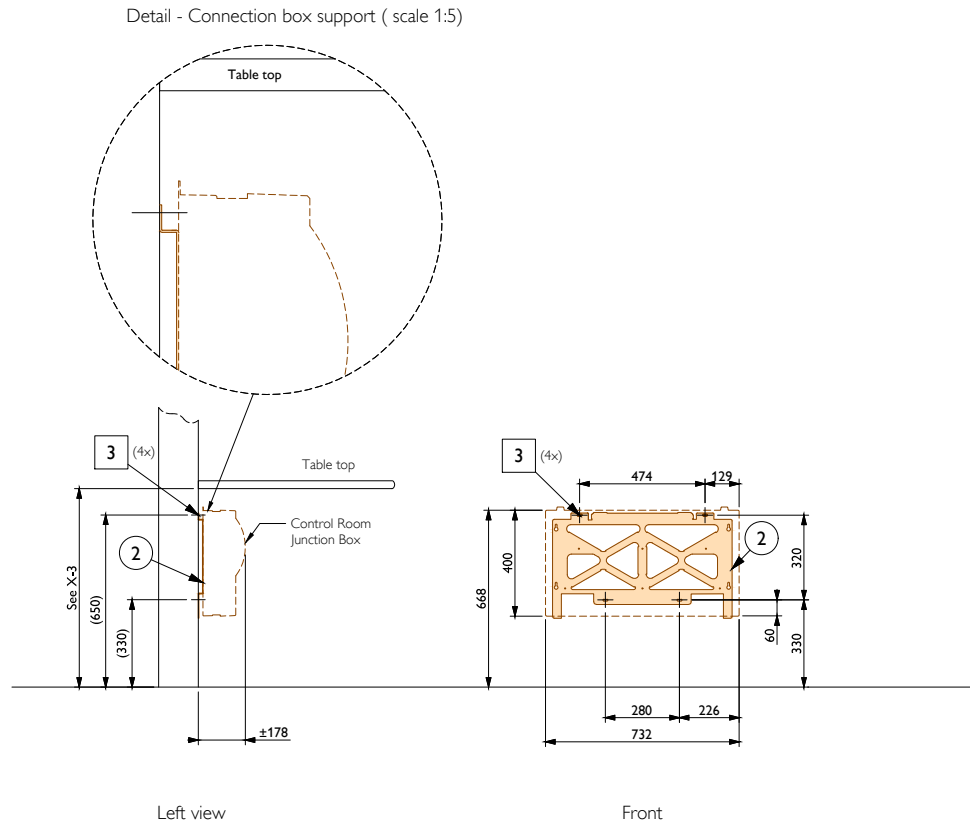
Item list:					
Resp	No	Description	Qty	Detail	Textref
A	①	Cabinet rear cover	1	-	-
A	②	Terminal block	1	-	-
A	③	Suitable fixing material	4	-	-
Responsibilities:					
A	Delivered and installed by Philips				
B	Delivered and installed by customer				
C	Delivered by Philips and installed by customer				
D	Delivered by customer and installed by Philips				
E	Existing				
				Works symbology	
				□	Construction works
				○	Electrical works
				◇	Mechanical works
				○	Equipment works



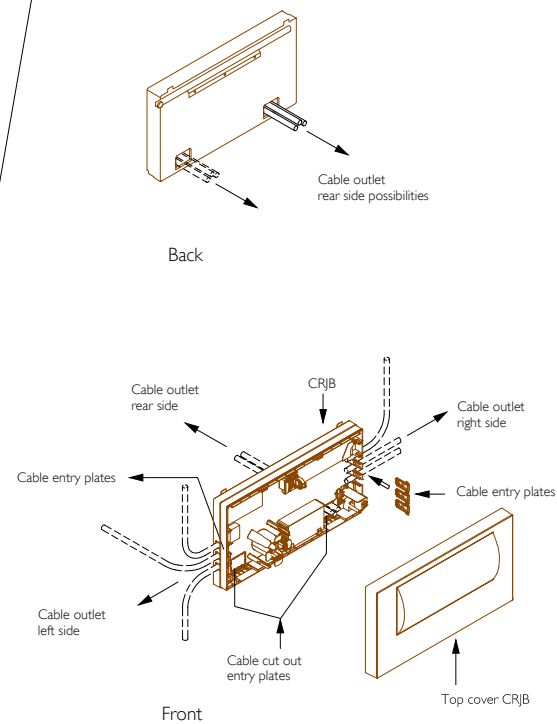
Detail - Support frame for Control Room Junction Box (scale 1:20)



Detail - Control Room Junction Box hole pattern for mounting directly on the wall (1:10)



Detail - Mounting Control Room Junction Box plate on the wall (scale 1:20)



Detail - Example Control Room Junction Box outlet (not scale)

Item list:

Resp	No	Description	Qty	Detail	Textref
C	①	Control Room Junction Box support frame	1	-	-
C	②	Control Room Junction Box wall plate	1	-	-
B	③	Holes & suitable fixing materials	-	-	-

Responsibilities:

- A Delivered and installed by Philips
- B Delivered and installed by customer
- C Delivered by Philips and installed by customer
- D Delivered by customer and installed by Philips
- E Existing

Works symbology

- Construction works
- Electrical works
- ◇ Mechanical works
- Equipment works

Project
Azurion 3 M12
S722229F_Azurion 3 F12 R3_Rev4.0_TSPD

Sheet subject
Details 4
(all disciplines)

Drawing

A3

Sheet

Label quote
Label order
Label Tech id

XD-4

mm

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Template Rev.	Block number	Block Rev.	Date	Source of information	Description	Author
2.0	B7220403-1 (Control Room Junction Box)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	B7220403-2 (Control Room Junction Box)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	B7220405-1 (AUXEA)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	B7220405-2 (AUXEA)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	B7220406-1 (Service Hub)	1.0	12.05.2023	PRD_Service Hub_D000748636_RevA	Block added	M.Kaźmierczak
2.0	B7220406-2 (Service Hub)	1.0	12.05.2023	PRD_Service Hub_D000748636_RevA	Block added	M.Kaźmierczak
2.0	722244 DETAIL SiteRequirements Azurion 3x	2.0	01.07.2024	PRD_CV System planning data_DMR167902_RevD	Updated temperatures. Updated for RCA Delta Manual.	M.Kaźmierczak
2.0	A722L094-1 (Azurion Rel3 operation station)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	A722L094-2 (Azurion Rel3 operation station)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	722240 (Detail AUXEA)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	722243 (Detail Service Hub)	1.0	12.05.2023	PRD_Service Hub_D000748636_RevA	Block added	M.Kaźmierczak
2.0	722242 (Detail CRJB)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	Control Room Junction Box support frame	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	Control Room Junction Box wall plate	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	Auxiliary Equipment Adapter (AUXEA)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	ServiceHub	1.0	12.05.2023	PRD_Service Hub_D000748636_RevA	Block added	M.Kaźmierczak
2.0	Basic control room (2x 24" Monitor)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	Control Room Equipment Adapter (CREA)	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M.Kaźmierczak
2.0	Imaging cabinet with Cabinet Rear Cover Deep	1.0	12.05.2023	PRD_B-Cabinet (Azurion)_DMR238570_RevA	Block added	M.Kaźmierczak
2.0	Network connection 100Mbps, RJ45 (service only)	1.0	12.05.2023	PRD_Service Hub_D000748636_RevA	Block added	M. Kaźmierczak
2.0	Bracket provisions for Control Room Junction Box	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M. Kaźmierczak
2.0	Control Room Equipment Adapter (CREA) provisions	1.0	12.05.2023	PRD_Control Room Azurion VoIP_D000956420_RevA	Block added	M. Kaźmierczak
2.0	ServiceHub provisions	1.0	12.05.2023	PRD_Service Hub_D000748636_RevA	Block added	M.Kaźmierczak
2.0	xxxText box Remark ServiceHub Cabling	1.0	12.05.2023	PRD_Service Hub_D000748636_RevA	Block added	M.Kaźmierczak
2.0	722010 DETAIL Floor plate PolyG CV20-AD7 Fixed-Pivot Flush ducts	1.0	27.05.2024	PRD_Poly-G Floor (Azurion)_DMR208866_Rev01 PRD_AD7 / tilt (Xper table)_452298151826	Detail updated (cover plate)	M.Kaźmierczak
2.0	Legend_Patient_table_R9	2.0	23.09.2024	PRD_AD7 / tilt (Xper table)_452298151826	Item list updated - weight	V. M. Iarochinski
2.0	Imaging cabinet with Cabinet Rear Cover Deep	2.0	23.09.2024	PRD_B-Cabinet (Azurion)_DMR238570_RevA	B Cabinet weight Update	V. M. Iarochinski
3.0	A3BinderCS	1.1	01.04.2025	Internal agreement	Moved REV_DESC_... to the right to avoid text overlap in PT drawings	A.Kobelecki
3.0	C-1 Sheet ISO-Certifications	0.0	01.04.2025	Head of Quality - International Region CoE francesco.sapia@philips.com	ISO-Certifications block removed (DEKRA logos)	A.Kobelecki
3.0	Dynamic Main Switch top view	2.0	01.04.2025	Internal agreement DM-18-0007_France_R06	France Mains Switch MR visibility added and earth reference termina added to visibility states France Mains Switch and France Mains Switch MR	A.Komar
3.0	A722L008-1 (Angio Diagnost 7 - All)	1.0	01.04.2025	PRD_Site Planning Guideline_DMR110483_RevF	Added floor levelness area	M.Kaźmierczak

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C-1 AND SHOULD NOT BE SEPERATED.

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Template Rev.	Block number	Block Rev.	Date	Source of information	Description	Author
3.0	legend_Area_Emission_Monoplane	1.0	01.04.2025	PRD_CV System planning data_DMR167902_RevE	Updated average heat emission.	M.Kaźmierczak
4.0	legend_Operating station R3	2.0	01.09.2025	PRD_CV System planning data - DMR167902_RevE	Updated heat emmision value	M.Kaźmierczak
4.0	xxxText box Remark Add heat R3	1.0	01.09.2025	PRD_CV System planning data - DMR167902_RevE	Updated heat emmision value	M.Kaźmierczak
4.0	B7220406-1 (Service Hub)	2.0	01.09.2025	PRD_Service Hub_D000748636_RevA	Block update - service zone added	M.Kaźmierczak
4.0	B7220406-2 (Service Hub)	2.0	01.09.2025	PRD_Service Hub_D000748636_RevA	Block update - service zone added	M.Kaźmierczak
4.0	722244 DETAIL SiteRequirements Azurion 3.x	3.0	01.09.2025	PRD_CV System planning data_DMR167902_RevE	Updated for North LATAM, Brazil Delta Manual	M.Kaźmierczak

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