

Environment DR 600			
	Operation	Transport	Storage
Temperature (ambient)	10 to 35 °C	-15 to 50 °C	-15 to 50 °C
Relative Humidity (non condensing)	30 to 75 %	15 to 90 %	15 to 90 %
Atmospheric pressure	70 to 106 kPa	70 to 106 kPa	70 to 106 kPa

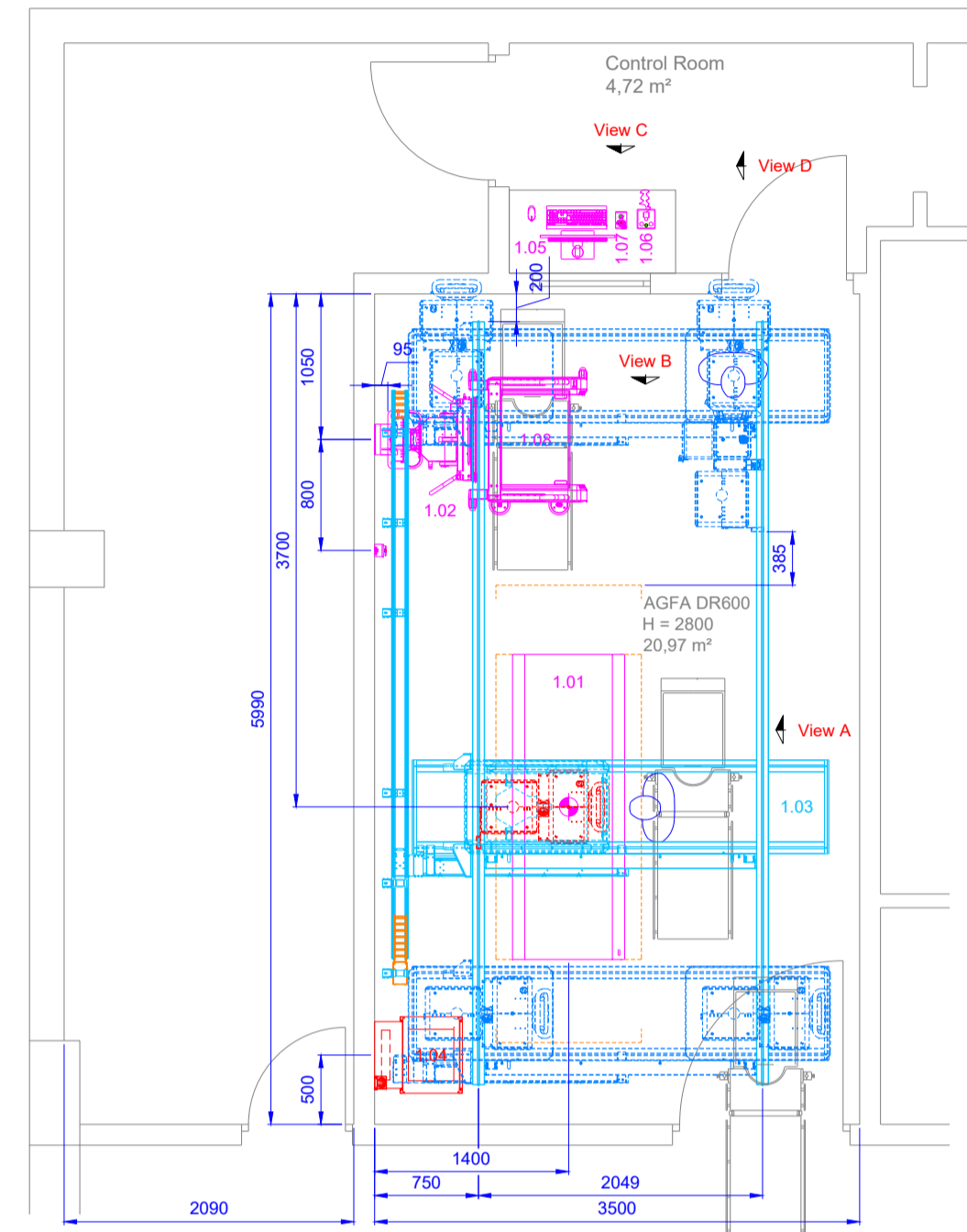
Transport DR 600		
Package / Contents	Size (width x depth x height)	Weight
Box with table	95x180x110 cm	± 420kg
Box with Wall Stand	80x245x130 cm*	± 410kg
Box with Ceiling Suspension	95x160x160 cm	± 400kg
Box with Generator, NX, detectors and related accessories	85x173x140 cm	± 370kg
Box with Table Top and floor templates (Wall Stand / Table)	95x230x30 cm	± 70kg

*= tilting version without spacer

List of Documents		
No.	Document No.	Document
00	Children's Hospital Agia Sofia - A1.00	3D System overview
01	Children's Hospital Agia Sofia - A1.01	Setup overview
02	Children's Hospital Agia Sofia - A1.02	Site preparations - Floor
03	Children's Hospital Agia Sofia - A1.03	Site preparations - Ceiling
04	Children's Hospital Agia Sofia - A1.04	Site preparations - Side views
05	Children's Hospital Agia Sofia - A1.05	Site preparations - Workstation

AGFA DR 600 – Equipment Legend		
Pos.	Description	Weight (kg)
1.01	X-Ray Table	250
1.02	Wall Stand	196*
1.03	Ceiling Suspension	351
1.04	Generator HFe Serie	120
1.05	Agfa Workstation	...
1.06	Generator on/off and exposure switch	...
1.07	Dead man switch/autopositioning	...
1.08	DX-D FLFS	...

*= tilting version without spacer



Measurements DR600 - OTC V2	
Standard Ceiling Suspension	
Length of Longitudinal Rail	Length of Transversal Bridge
5500mm	3000mm
Cablelength 20m	

Unit arrangement and Site preparations

This was made in conformity with the constructional planning references and the project equipment. We reserve the right to make technical alterations. Before the construction work is completed it has to be ascertained that there are no changes in the original project.

The scope of delivery and services is described and determined in the order confirmation.

All data serve for the on-site preparation for installation and cabling of the DR 600 system in order to ensure correct operation.

This plan is not a construction drawing and is not to be used for carrying out construction work.

Room dimensioning

The indicated room dimensions have to be checked on site. The planning department has to be informed about possible deviations. Otherwise we cannot assume any guarantee for the accurate implementation of the dimensions indicated in the planning documents.

Dimensioning

All installation measurements apply to finished wall or floors and are to be checked prior to assembling the unit.



Orientation point = reference point of the unit for planning and installation

Customer Release Acknowledgement

I agree to this preliminary as the basis for implementation planning. We have been informed of the importance of heading all notes and requirements. Agfa Healthcare does not check and monitor compliance with on-site requirements and planning specifications, such as structural engineering, climate control, preparations for installation and electrical installations. We will contract the implementation and monitoring of on-site preparations for installation to qualified specialists.

Customer:	Name	Signature	Date
First creation	28-05-2024	Edited	Checked
Editing progression	Sign.	Released	Sign.



Children's Hospital Agia Sofia
Athens
Greece

Setup Overview

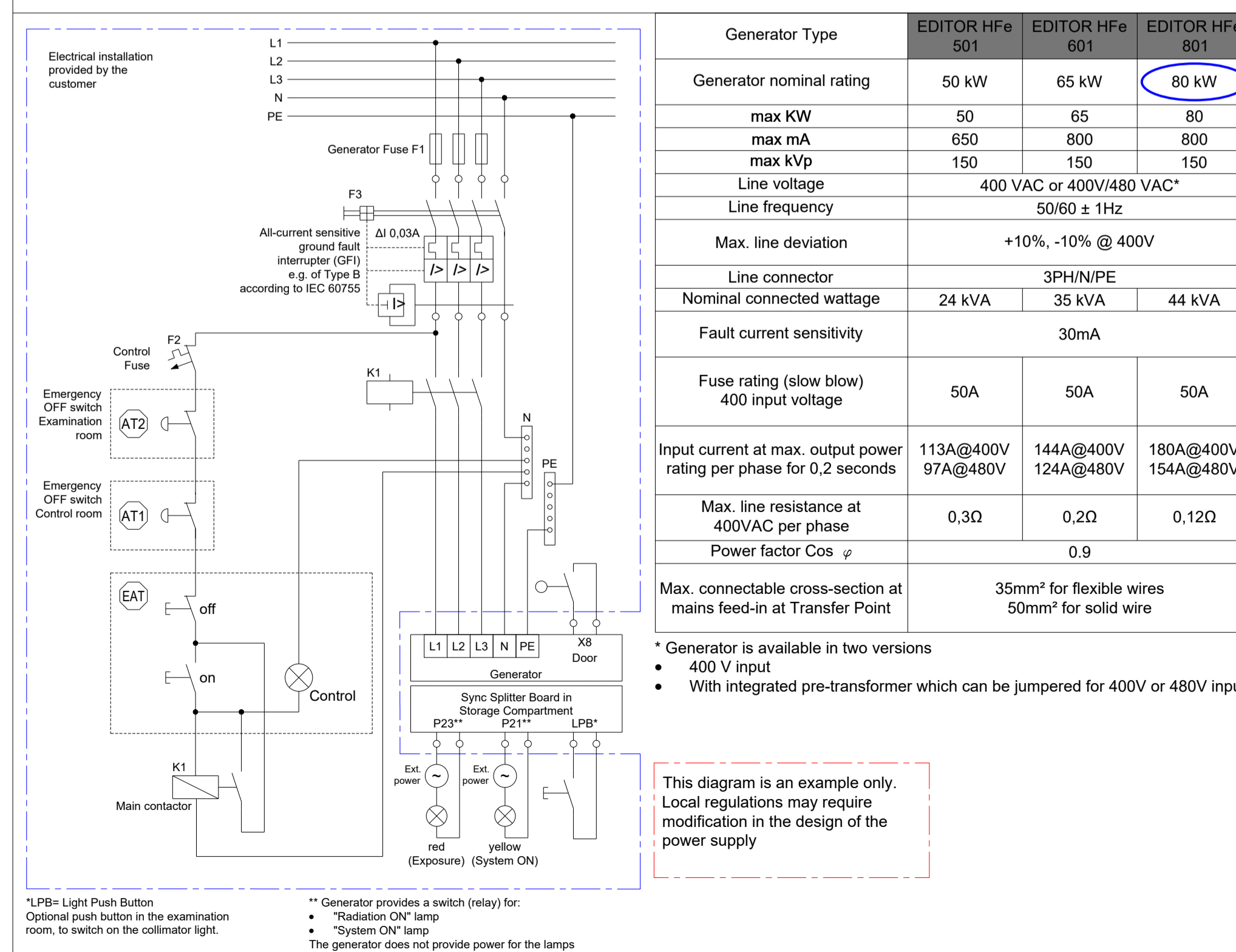
AGFA DR 600

Room height finished floor to
Concrete Ceiling
Suspended Ceiling

Scale 1:50
0m 1m 2m

Customer number	Project	Plan index	Filename
	AGFA	A1.01	A1

Electrical installation DR 600



Generator Type	EDITOR HFe 501	EDITOR HFe 601	EDITOR HFe 801
Generator nominal rating	50 kW	65 kW	80 kW
max kW	50	65	80
max mA	650	800	800
max kVp	150	150	150
Line voltage	400 VAC or 400V/480 VAC*		
Line frequency	50/60 ± 1Hz		
Max. line deviation	+10%, -10% @ 400V		
Line connector	3PH/N/PE		
Nominal connected wattage	24 kVA	35 kVA	44 kVA
Fault current sensitivity	30mA		
Fuse rating (slow blow) 400 input voltage	50A	50A	50A
Input current at max. output power rating per phase for 0,2 seconds	113A@400V 97A@480V	144A@400V 124A@480V	180A@400V 154A@480V
Max. line resistance at 400VAC per phase	0,3Ω	0,2Ω	0,12Ω
Power factor Cos φ	0,9		
Max. connectable cross-section at mains feed-in at Transfer Point	35mm² for flexible wires 50mm² for solid wire		

- * Generator is available in two versions
- 400 V input
- With integrated pre-transformer which can be jumpered for 400V or 480V input

This diagram is an example only. Local regulations may require modification in the design of the power supply

** Generator provides a switch (relay) for:
• "Radiation ON" lamp
• "System ON" lamp
The generator does not provide power for the lamps

Insufficient safety distances

In accordance with the standard EN 349, actions must be taken to ensure safety in danger zones. A danger zone is an area in which the possibility of injury exists because of the position or design of stationary or moving parts of a technical product. These danger zones can be made safe through the use of protective facilities (clothing, coverings, safety barriers such as light barriers, switching strips, switching mats, conspicuous warning signs hanging by cords). Here, it must be ensured that the protective facilities are designed and positioned in such a way that the safety distances are not changed. The safety distances at crushing points must, for example, be > 50 cm for the body, > 18 cm for the legs, > 10 cm for the hands and > 12 cm for the feet and arms. **Notice!** When setting up pieces of equipment and making other installations which are not included in this planning, it must be ensured that the safety distances are maintained.

Room lighting

Ambient light in rooms where diagnosis take place on image display devices (monitors) must meet the following requirements:
- Free of dazzle, controllable, reproducible setting of the lighting intensity (e.g. dimmer with scale)
- No reflections from windows, lamps and viewing boxes in the usual operating position of the image display devices. This is a specification of DIN 6868-57 in Germany, which should also be complied within all other countries. In regard to the lighting of rooms for diagnostic imaging and treatment procedures, the intensity of the lighting in general depends on the type of procedure. If only X-ray exposures are produced, the requirements for lighting for diagnostic imaging with image intensifiers apply (50 lx). When images are displayed on monitors, the possibility of reducing the general lighting intensity must be provided (30 lx; if necessary, down to 1 lx). Reflections and glare on the screen must be avoided (DIN 5035-3; EN 12464). As a rule, therapy rooms require a general lighting with a nominal lighting intensity of 300 lx. This also applies to rooms where patients are treated with physical, radiological or electromedical procedures.

Statics DR 600

The system has to be installed on a solid surface with sufficient load carrying capacity, such as, e.g. concrete. If the underground, e.g. screed, doesn't have a sufficient bearing load, it must be removed and replaced by a concrete replenishment min. C20/25. If an appropriate substructure is provided on site, the unit may also be mounted on installation floors.

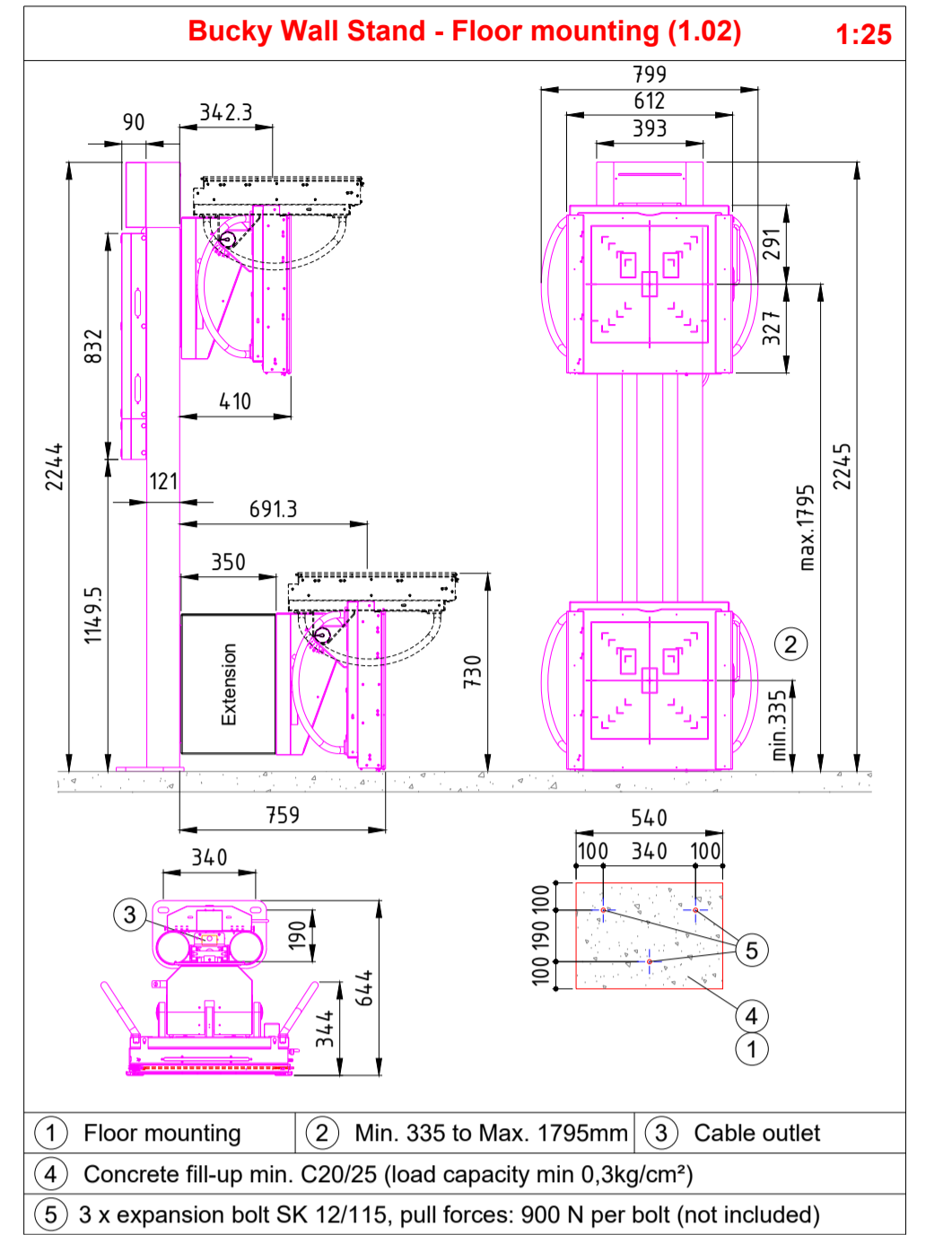
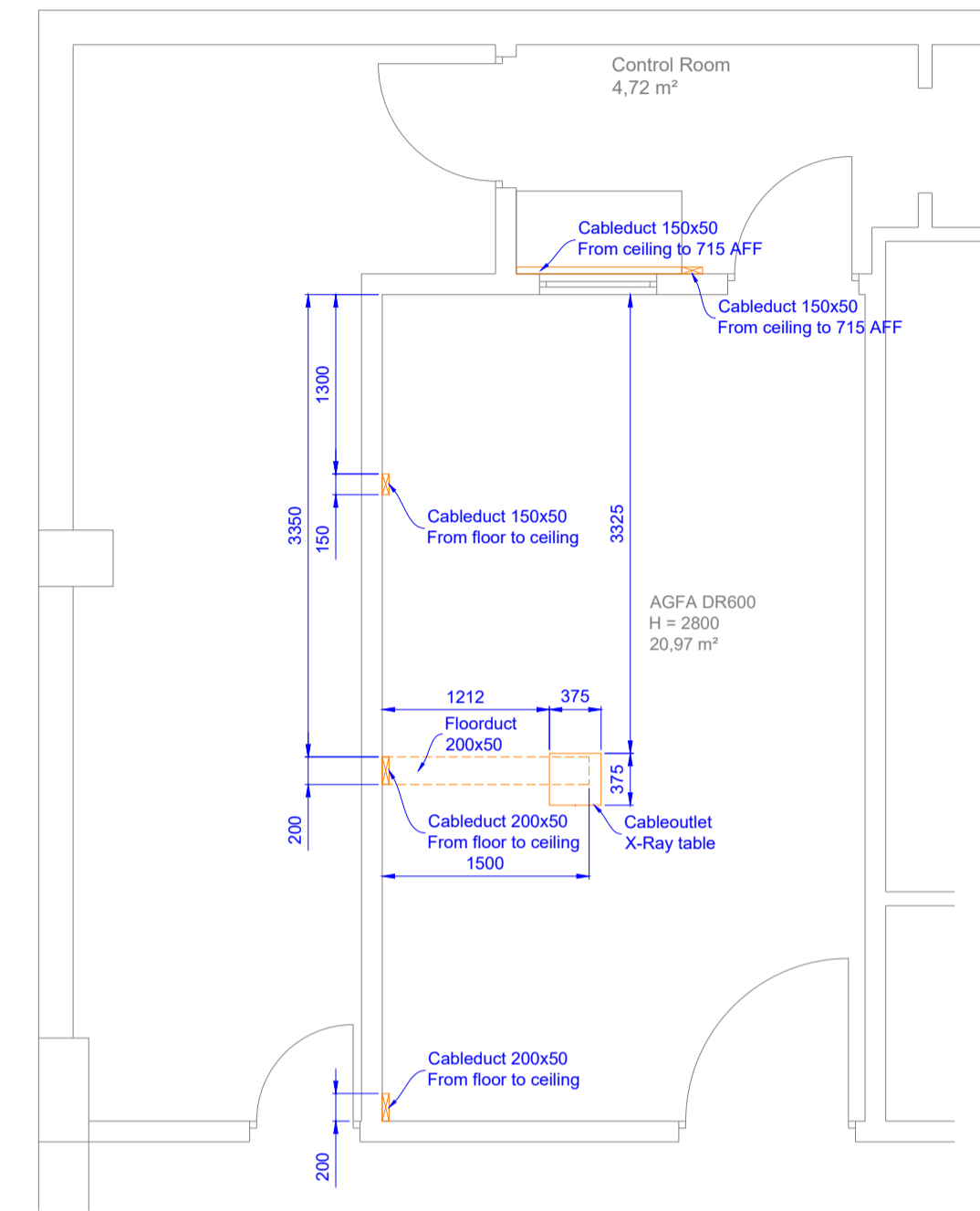
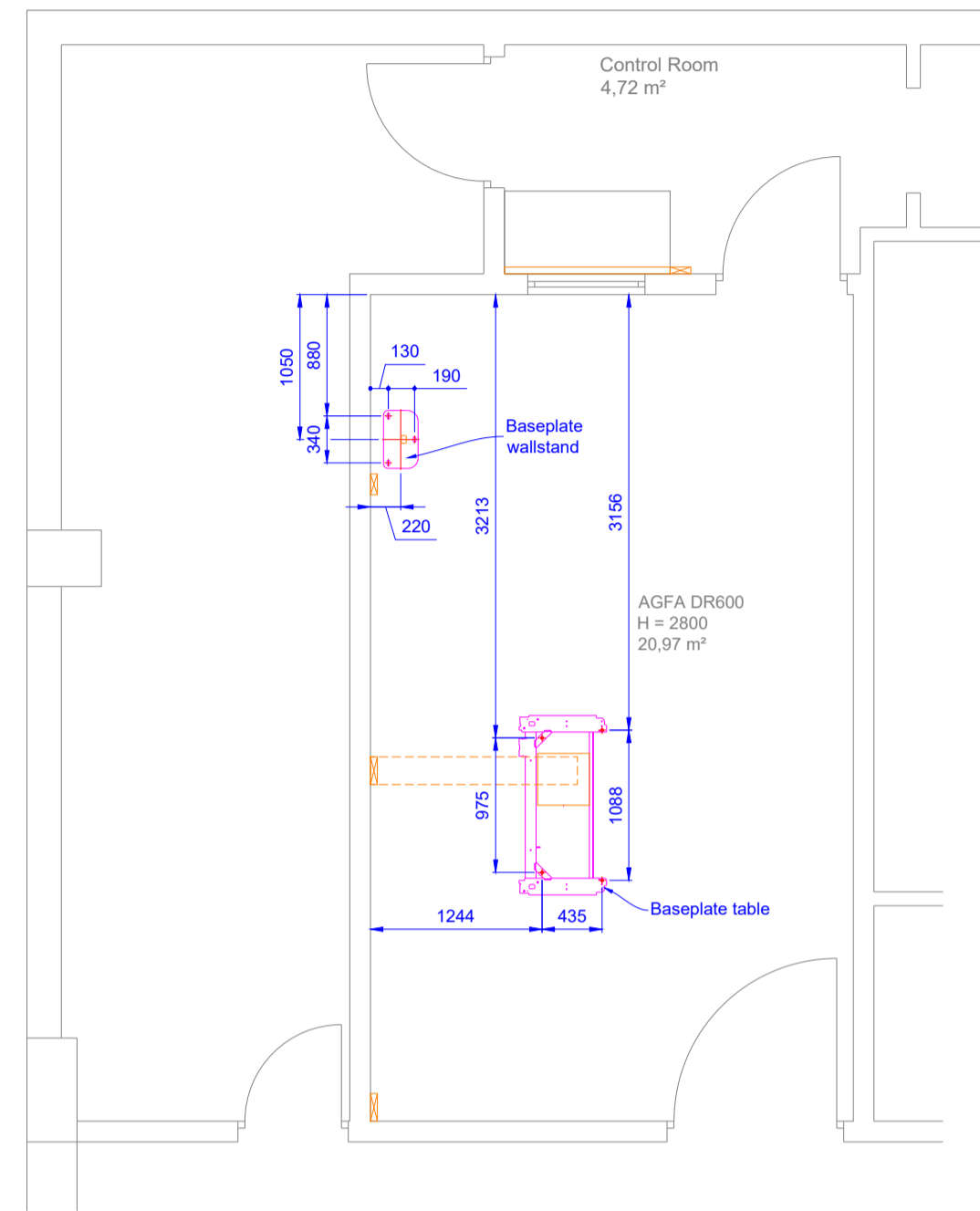
Planning recommendations

According to the German standard (DIN 6812:2021-06) an inter-visibility and a voice communication is required between the patient and the operator. Consider the ceiling mounted devices and light barriers by arranging the lamps. Darkening of windows in X-ray and control rooms is recommended.

Notes on Preparations for Installation

The preparations for installation include routing network lines as well as product-specific wiring and cables for transfer of digital information, pulling cables into present conduit, installing fuse boxes, switches (e.g. main, ground fault and emergency shut-off switches), illuminated signs, transformers with separate windings and insulation monitors, installation of cable ducts, installation floors and conduits according to plans completed by us; the same applies for completion and fastening of special constructions for mounting equipment on ceilings, intermediate ceilings, floors and walls as well as installation of heavy load anchors. Contracts for performing and supervising on-site installation preparations should be concluded with technically competent companies directly by the ordering party. The ordering party is responsible for timely and proper completion and supervision of all preparations for installation at the construction site in observance of all applicable legal regulations (e.g. X-ray regulations, radiation protection regulations) and all applicable general recognized rules of technology (e.g. VDE regulations, DIN standards). Execution and supervision of installation preparations at the construction site and later observance of the standard operating conditions are not included in our duties. The ordering party is responsible for checking the static calculations and, where applicable, the air conditioning in the building to be equipped.

Site preparations technical details - Floor



AGFA DR 600 – Equipment Legend

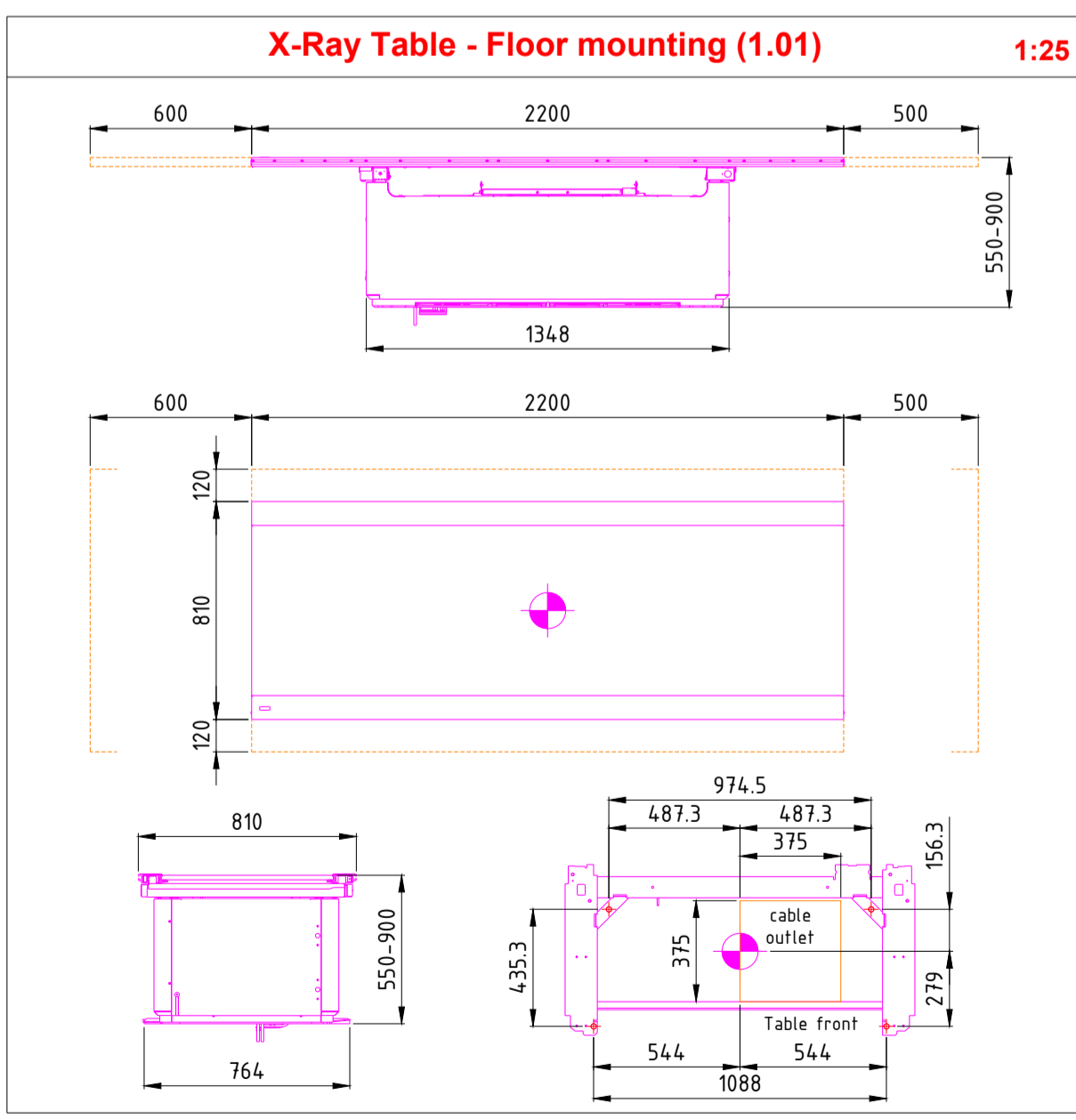
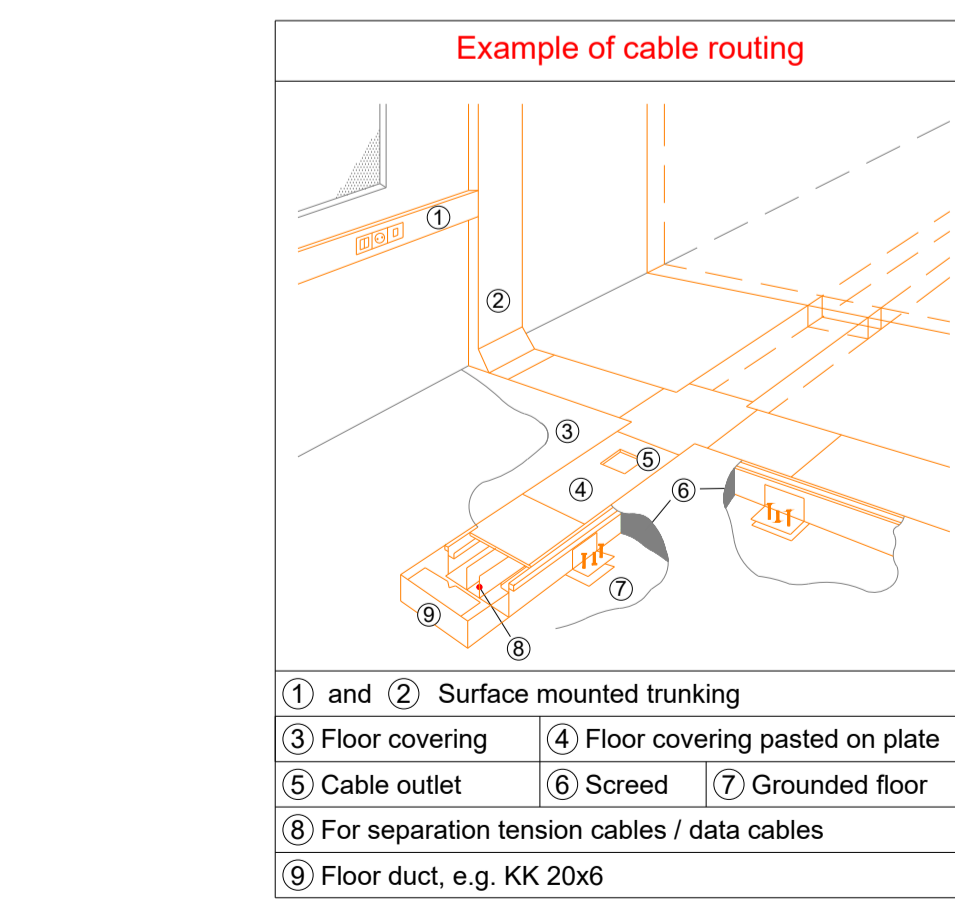
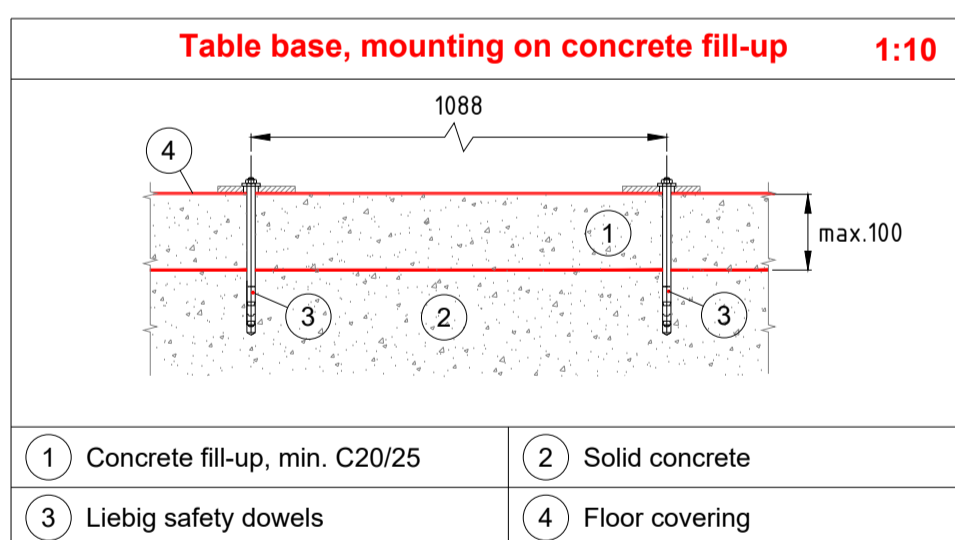
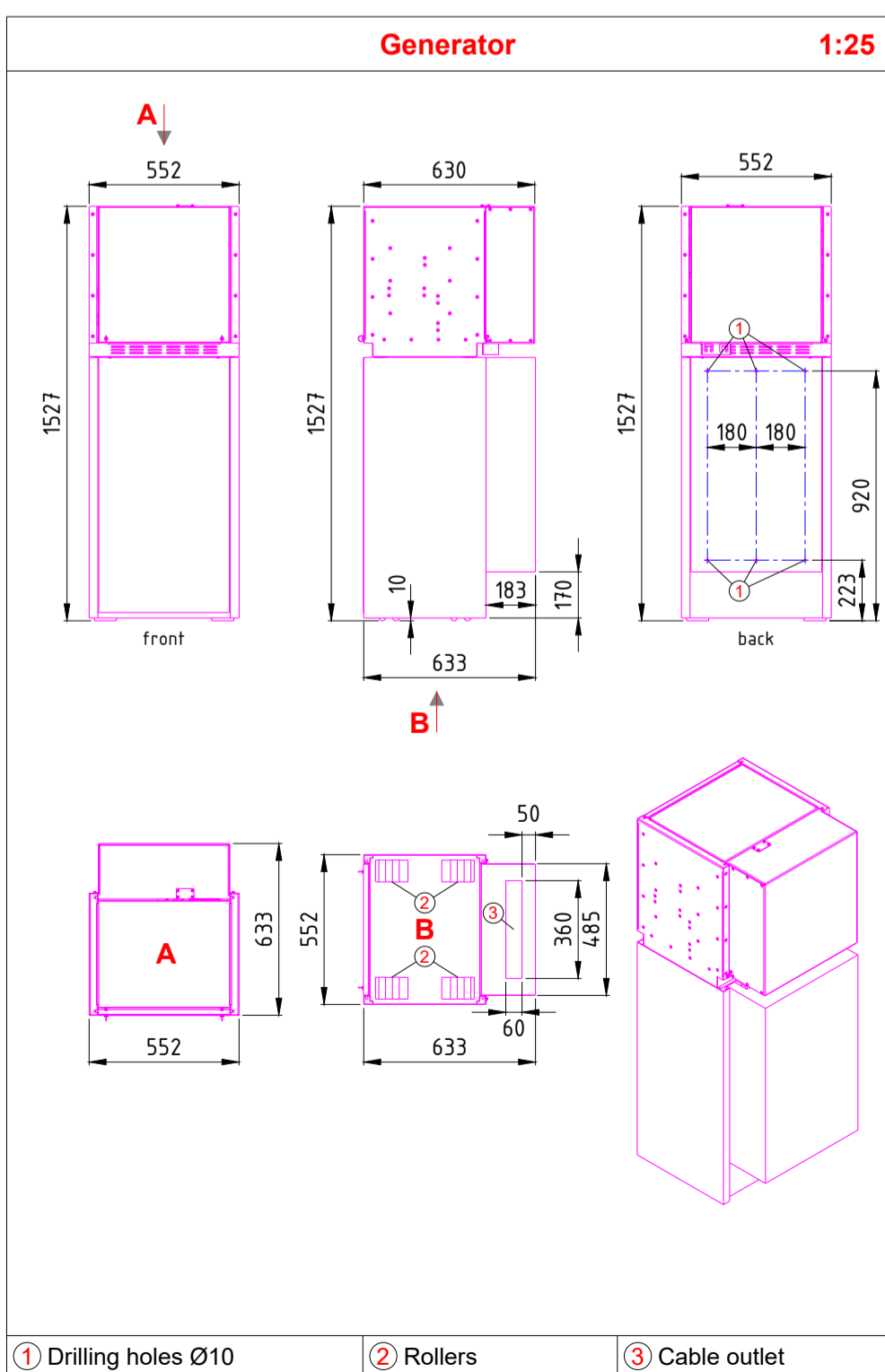
Pos.	Description	Weight (kg)
1.01	X-Ray Table	250
1.02	Wall Stand	196*
1.03	Ceiling Suspension	351
1.04	Generator HFe Serie	120
1.05	Agfa Workstation	...
1.06	Generator on/off and exposure switch	...
1.07	Dead man switch/autopositioning	...
1.08	DX-D FLFS	...

* = tilting version without spacer

Cableducts need to be reserved for Agfa Cables only

Site preparations Technical details - Floor

We reserve the right to make technical alterations.
All information provided is for the on-site preparation of the installation and cabling of the Agfa DR 600 system in order to ensure correct operation.
This plan is not a construction drawing and is not to be used for carrying out construction work.

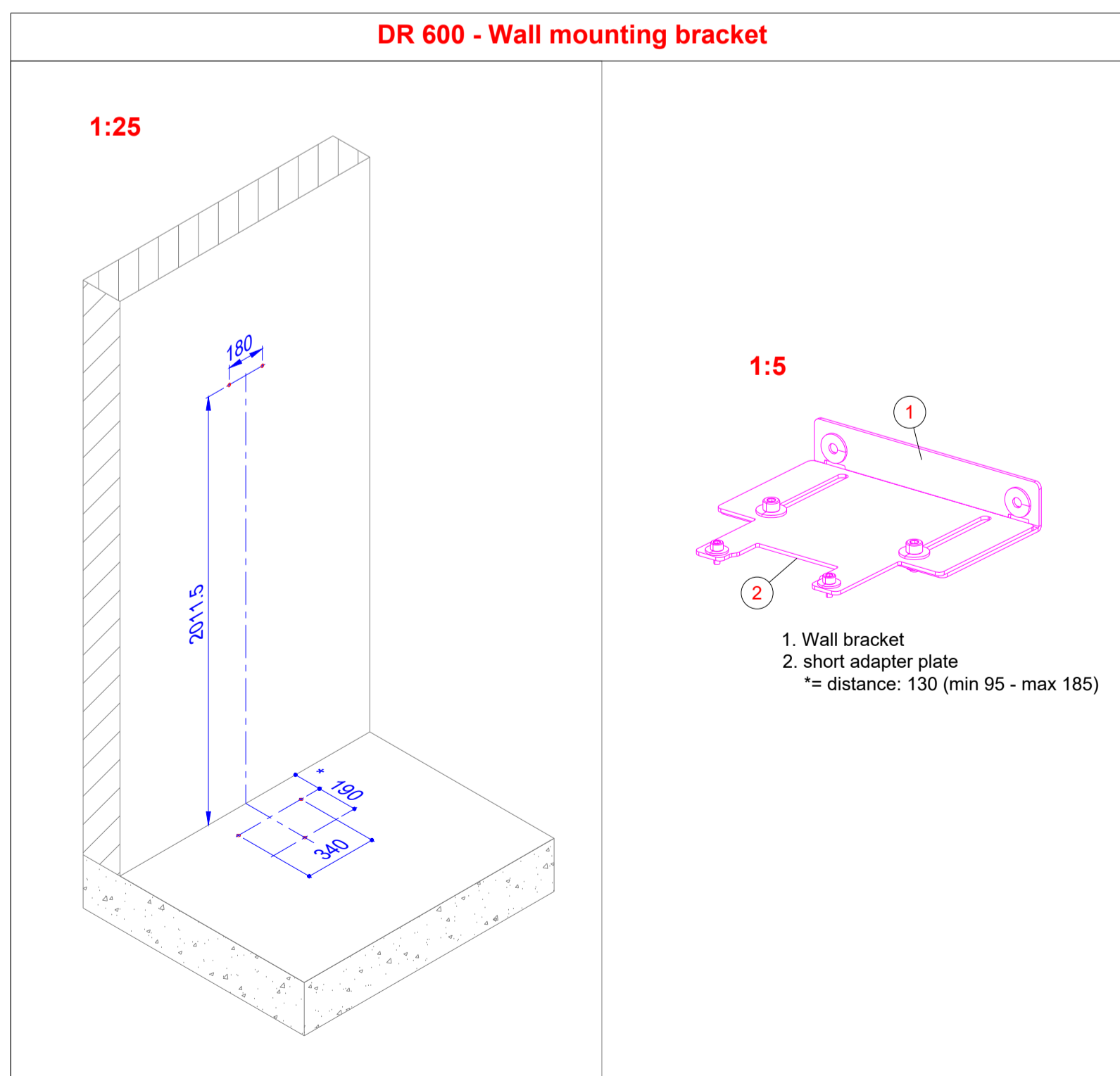


Use of existing cable ducts

Following cables are defined as "power cables" and should be separated from the other cables, e.g. via separate compartment in the cable duct

- Power cable (230V) between Generator X4 and Transfer Point Table
- Power cable (230V) between Generator X5 and Transfer Point Wall Stand

Power cables should be separated from the other cables, e.g. by using a cable duct with 3 separated compartments. There should be a few centimeters distance. Separated cableducts but placing power cables in parallel to the data cables with just a few millimeters distance may result in image artifacts.



Room dimensioning

The indicated room dimensions have to be checked on site. The planning department has to be informed about possible deviations. Otherwise we cannot assume any guarantee for the accurate implementation of the dimensions indicated in the planning documents.

Dimensioning

All installation measurements apply to finished wall or floors and are to be checked prior to assembling the unit.

cm mm

Orientation point = reference point of the unit for planning and installation

Customer Release Acknowledgement

I agree to this preliminary as the basis for implementation planning. We have been informed of the importance of heeding all notes and requirements. Agfa Healthcare does not check and monitor compliance with on-site requirements and planning specifications, such as structural engineering, climate control, preparations for installation and electrical installations. We will contract the implementation and monitoring of on-site preparations for installation to qualified specialists.

Customer: _____

Signature _____ Date _____

First creation: 28-05-2024, V1

Editing progression: Edited, Checked, Sign, Released, Sign

AGFA Agfa

Children's Hospital Agia Sofia
Athens
Greece

Site preparations - Floor

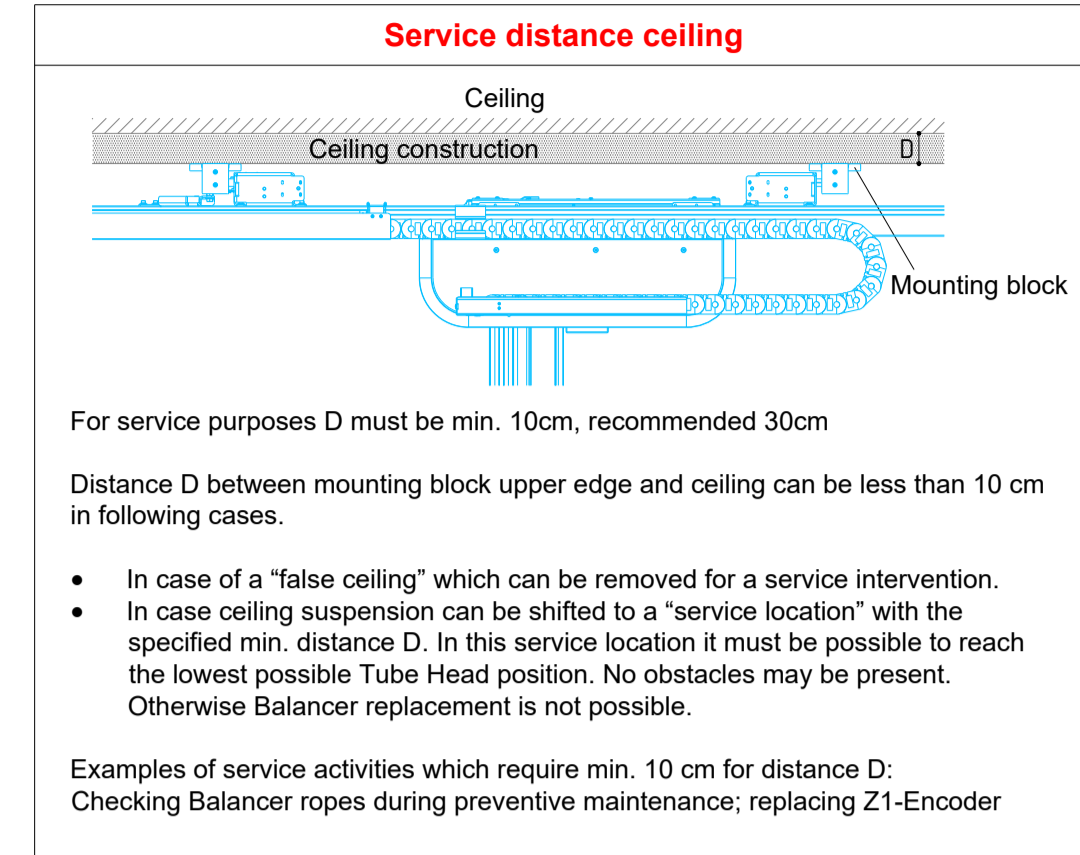
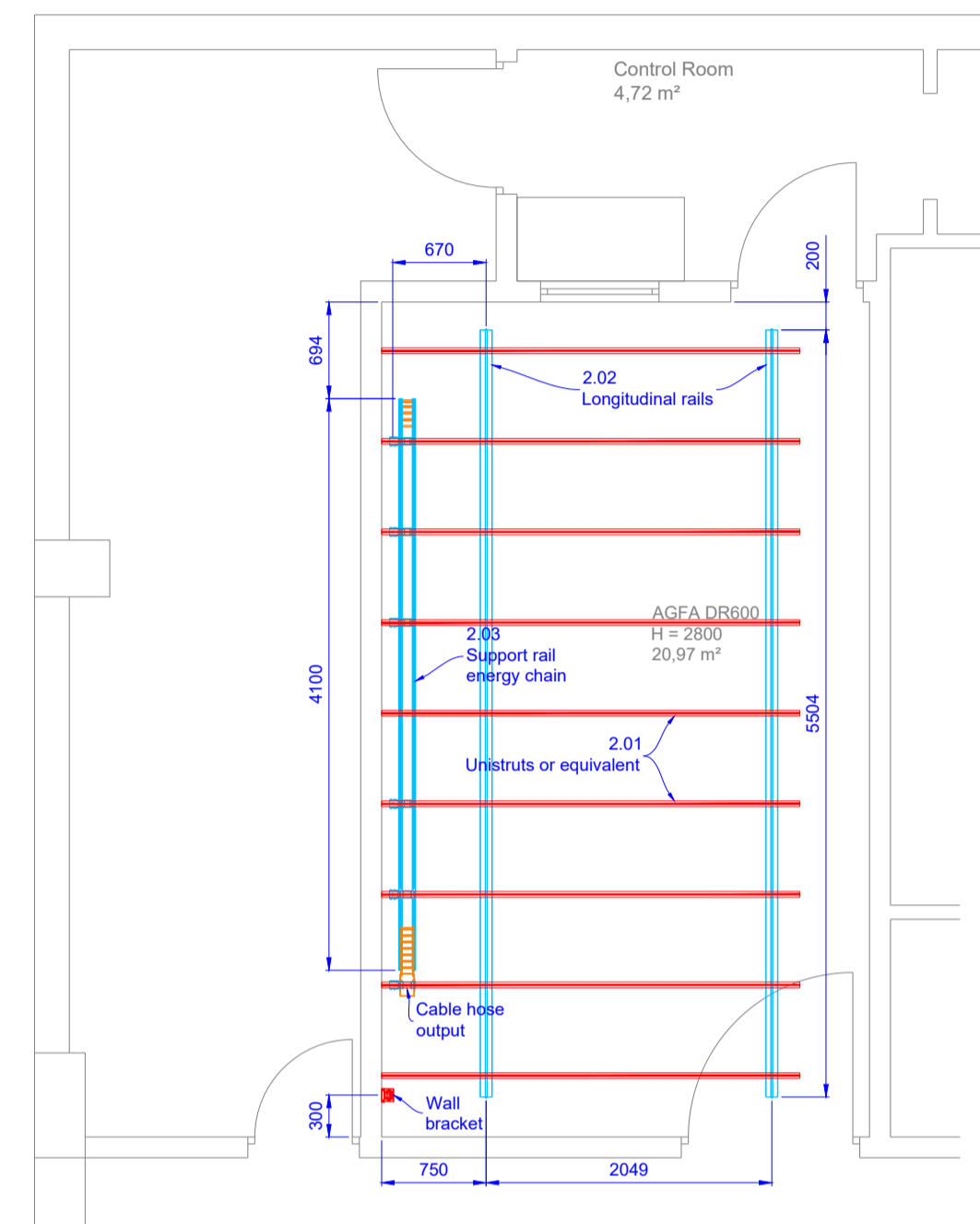
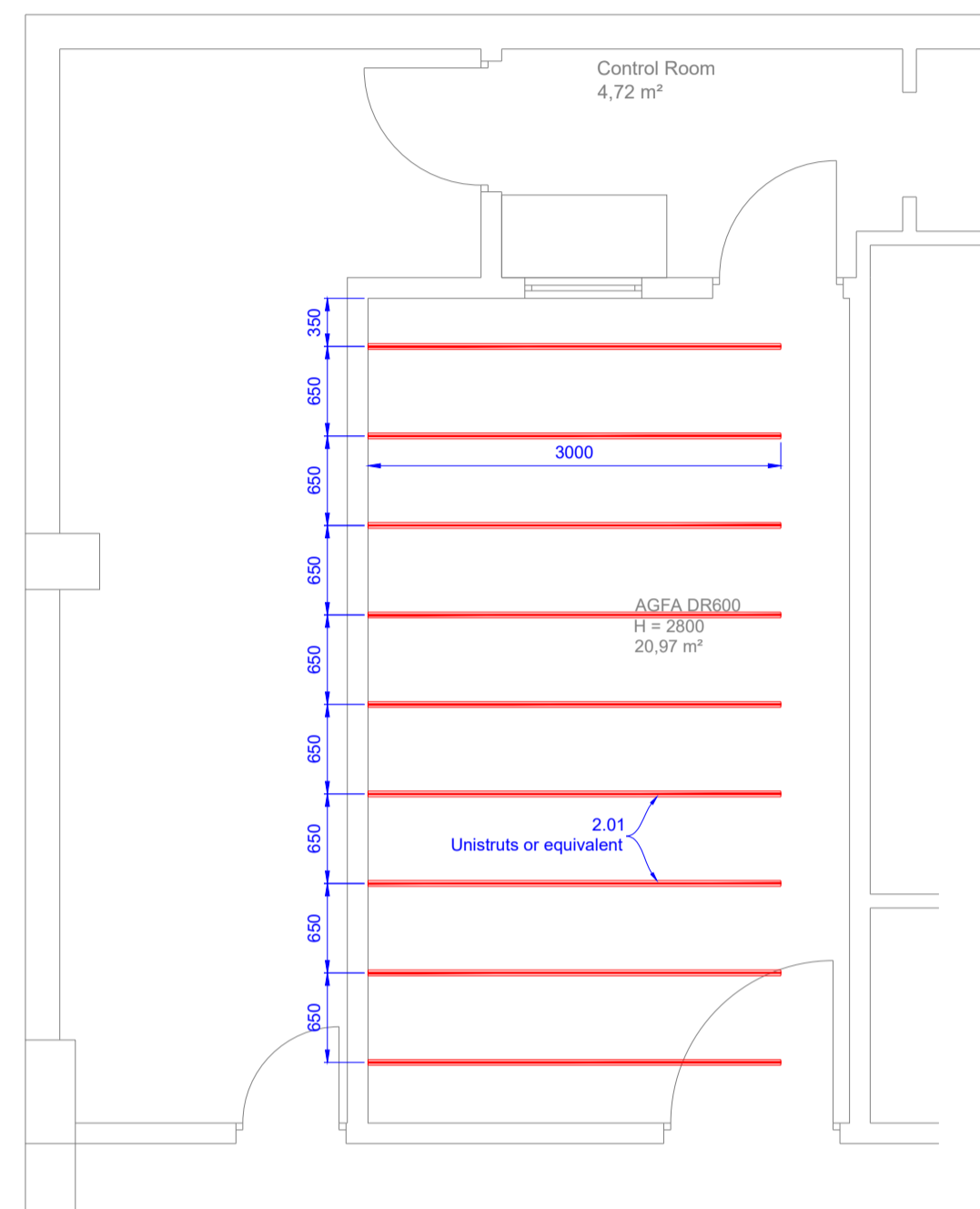
Room height finished floor to Concrete Ceiling
Suspended Ceiling

Scale 1:50
0m 1m 2m

AGFA DR 600

Customer number: AGFA, Project: AGFA, Plan index: A1.02, Filename: _____

Site preparations Technical details - Ceiling



Site Preparations Technical Details - Ceiling

We reserve the right to make technical alterations.
All data serve for the on-site preparation for installation and cabling of the Agfa DR 600 system in order to ensure correct operation.
This plan is not a construction drawing and is not to be used for carrying out construction work.

Dimensioning

All installation measurements apply to finished wall or floors and are to be checked prior to assembling the unit.

cm mm

Orientation point = reference point of the unit for planning and installation

Room dimensioning

The indicated room dimensions have to be checked on site. The planning department has to be informed about possible deviations. Otherwise we cannot assume any guarantee for the accurate implementation of the dimensions indicated in the planning documents.

Customer Release Acknowledgement

I agree to this preliminary as the basis for implementation planning. We have been informed of the importance of heeding all notes and requirements. Agfa Healthcare does not check and monitor compliance with on-site requirements and planning specifications, such as structural engineering, climate control, preparations for installation and electrical installations. We will contract the implementation and monitoring of on-site preparations for installation to qualified specialists.

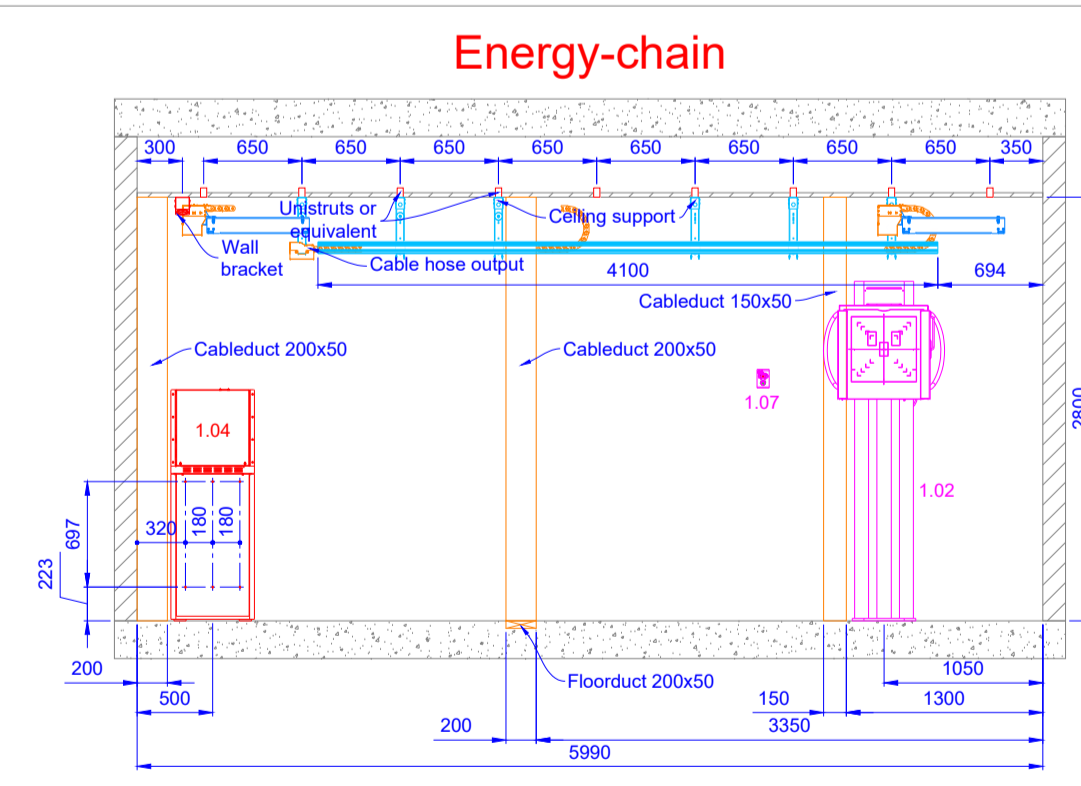
Customer: _____

Name	Signature	Date
First creation	Quattek 28-05-2024	V1
Editing progression	Edited	Checked Sign. Released Sign.

AGFA

Children's Hospital Agia Sofia
Athens
Greece

Site preparations - Ceiling	Room height finished floor to Concrete Ceiling Suspended Ceiling
AGFA DR 600	Scale 1:50 0m 1m 2m
Customer number AGFA	Project Plan index A1.03
Filename	A1



AGFA DR 600 – Equipment Legend

Pos.	Description	Weight (kg)
1.01	X-Ray Table	250
1.02	Wall Stand	196*
1.03	Ceiling Suspension	351
1.04	Generator HFe Serie	120
1.05	Agfa Workstation	...
1.06	Generator on/off and exposure switch	...
1.07	Dead man switch/autopositioning	...
1.08	DX-D FLFS	...

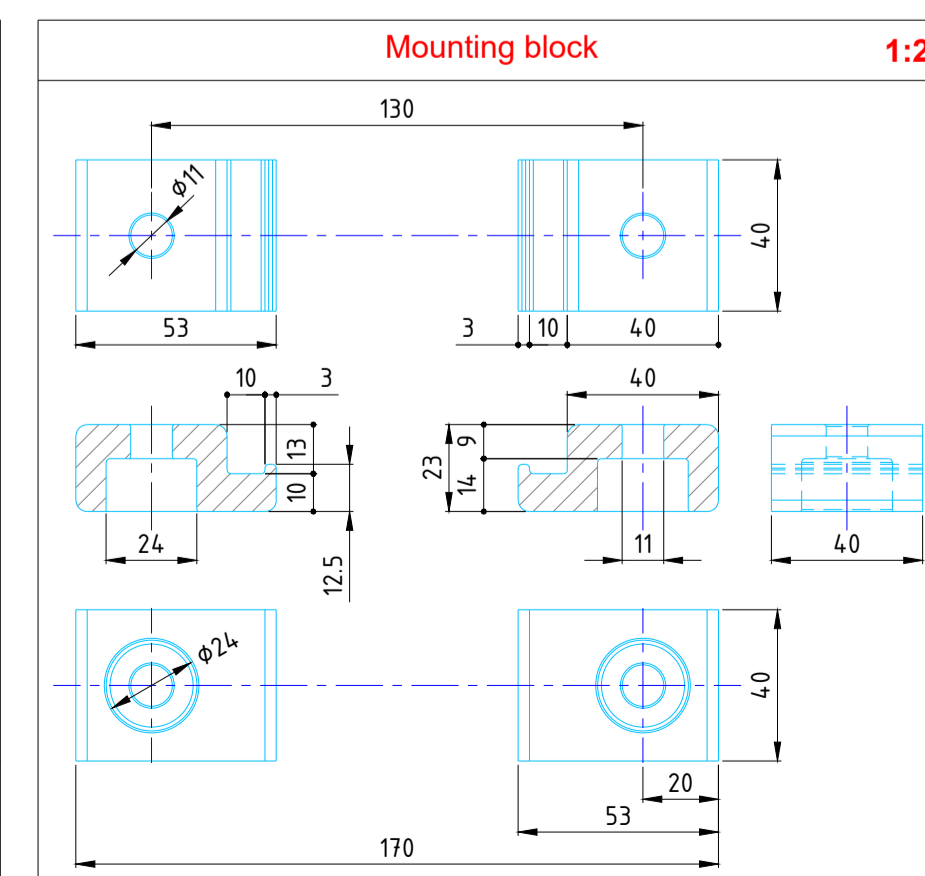
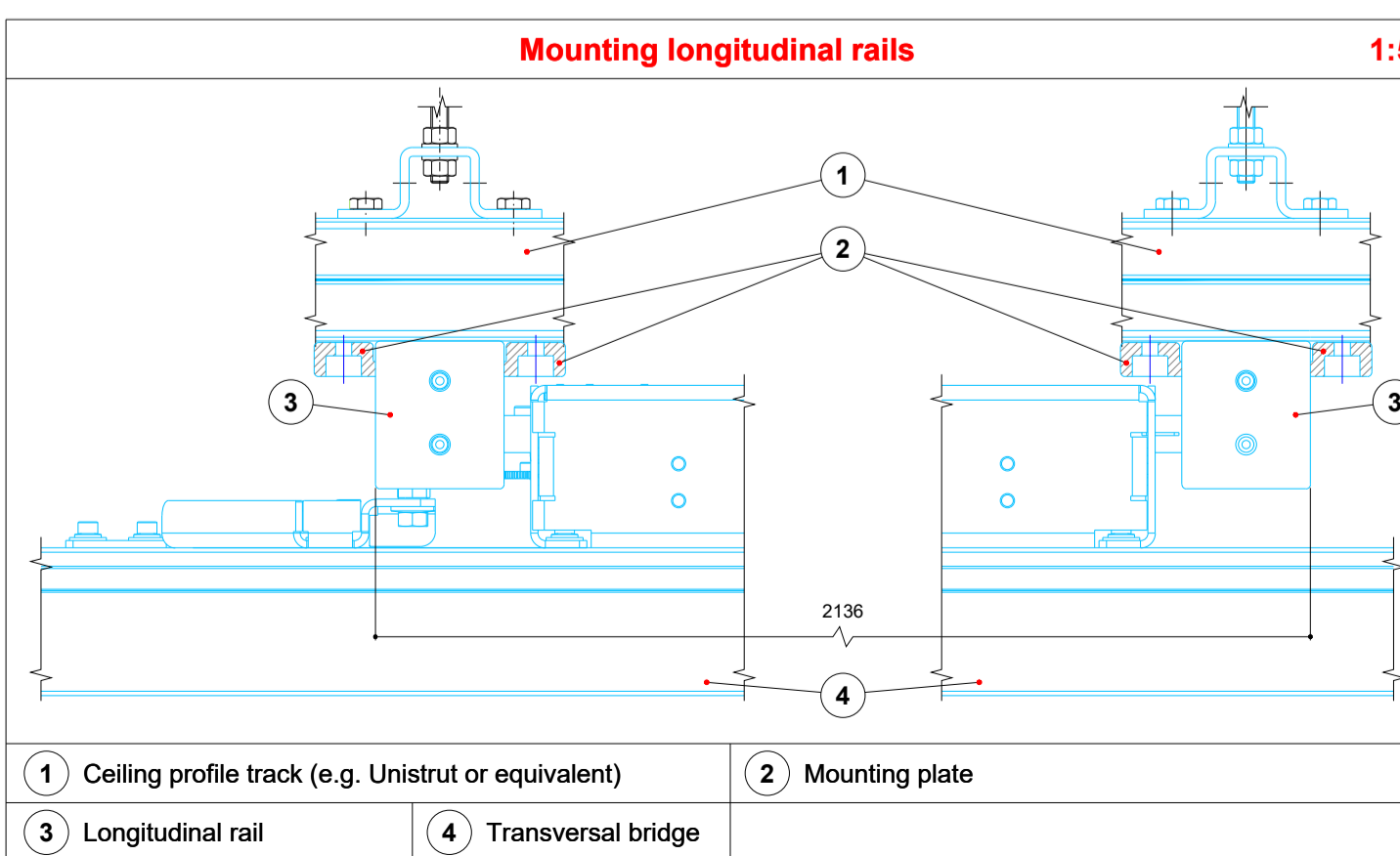
*= tilting version without spacer

Equipment suspension

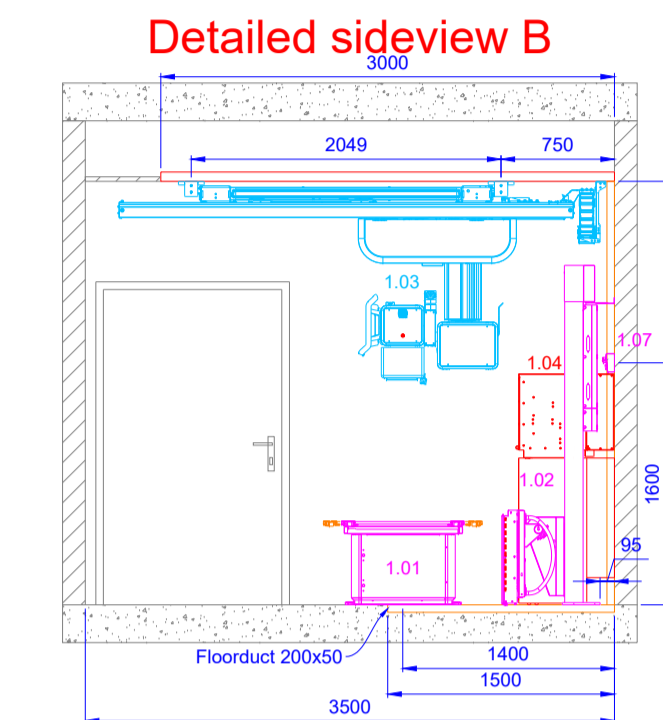
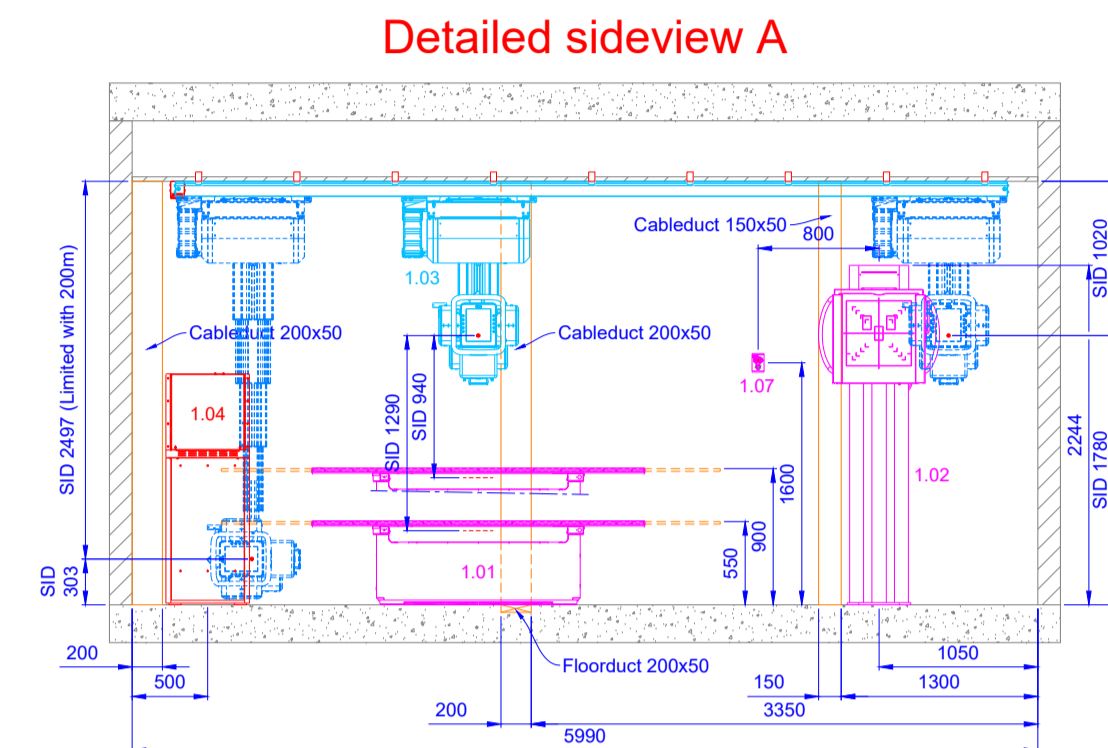
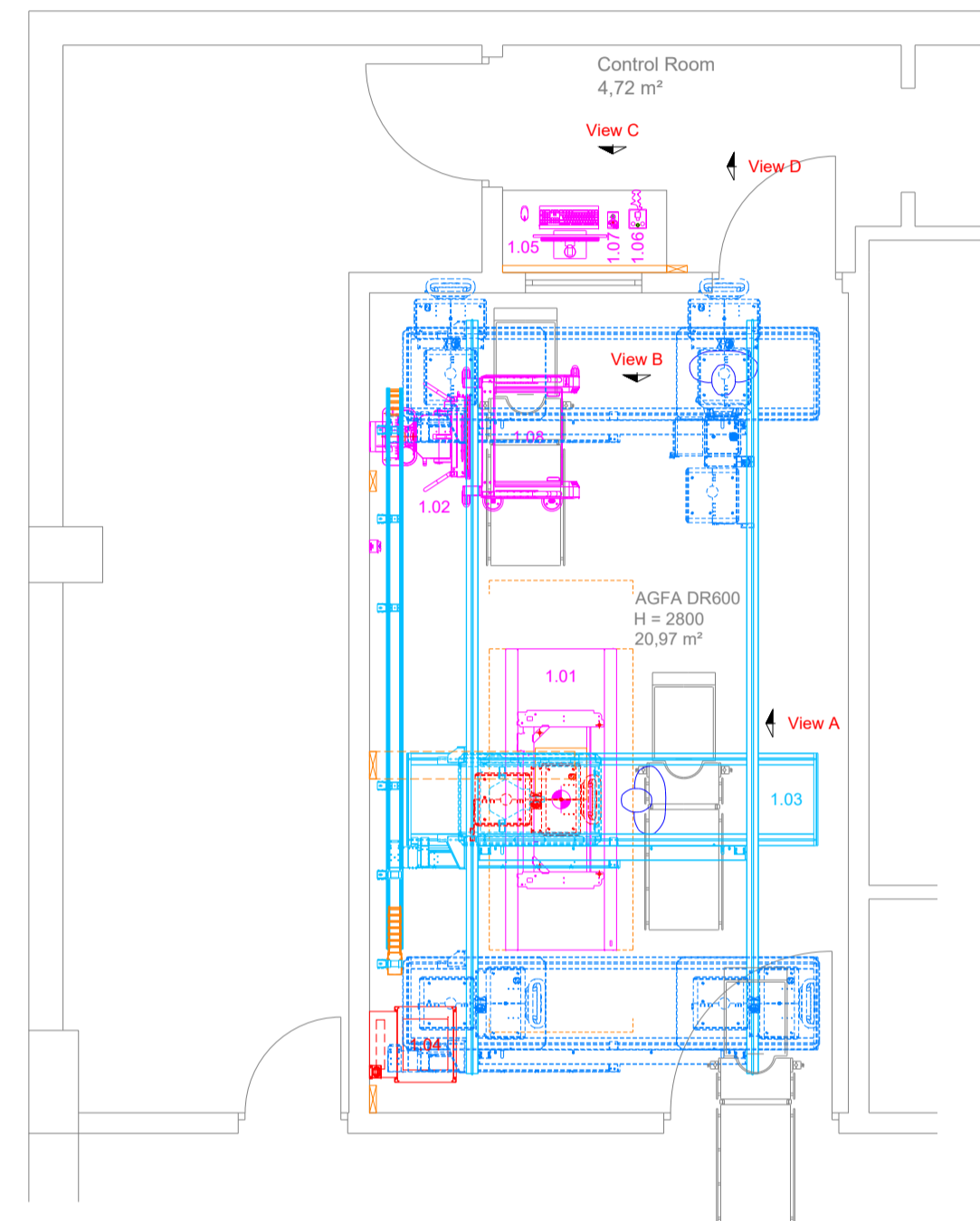
2.01	9 Unistruts or equivalent
2.02	Single Channel 41x62x3000mm with groove M12
2.02	Longitudinal rail (60x75x5504mm)
2.03	Support rail energy chain (120x77x4100mm)

Load per ceiling mounting point

Parameter	Value
Vertical single load at Y-bridge length 2,5m (min. length)	Fz max = 4,0 kN
Vertical single load at Y-bridge length 3,0m	Fz max = 4,5 kN
Vertical single load at Y-bridge length 3,5m	Fz max = 5,0 kN
Vertical single load at Y-bridge length 4,0m (max. length)	Fz max = 5,5 kN
Lateral load in X-direction	Fx max = 2,0 kN
Lateral load in Y-direction	Fy max = 2,0 kN



Site preparations Technical details - Side views



AGFA DR 600 – Equipment Legend

Pos.	Description	Weight (kg)
1.01	X-Ray Table	250
1.02	Wall Stand	196*
1.03	Ceiling Suspension	351
1.04	Generator HFe Serie	120
1.05	Agfa Workstation	...
1.06	Generator on/off and exposure switch	...
1.07	Dead man switch/autopositioning	...
1.08	DX-D FLFS	...

*= tilting version without spacer

Site Preparations Technical Details - Side views

We reserve the right to make technical alterations.

All data serve for the on-site preparation for installation and cabling of the Agfa DR 600 system in order to ensure correct operation.

This plan is not a construction drawing and is not to be used for carrying out construction work.

Dimensioning

All installation measurements apply to finished wall or floors and are to be checked prior to assembling the unit.



Orientation point = reference point of the unit for planning and installation

Room dimensioning

The indicated room dimensions have to be checked on site. The planning department has to be informed about possible deviations. Otherwise we cannot assume any guarantee for the accurate implementation of the dimensions indicated in the planning documents.

Customer Release Acknowledgement

I agree to this preliminary as the basis for implementation planning. We have been informed of the importance of heeding all notes and requirements. Agfa Healthcare does not check and monitor compliance with on-site requirements and planning specifications, such as structural engineering, climate control, preparations for installation and electrical installations. We will contract the implementation and monitoring of on-site preparations for installation to qualified specialists.

Customer: _____
Name: _____ Signature: _____ Date: _____

First creation	Quattek	28-05-2024	V1		
Editing progression	Edited	Checked	Sign.	Released	Sign.



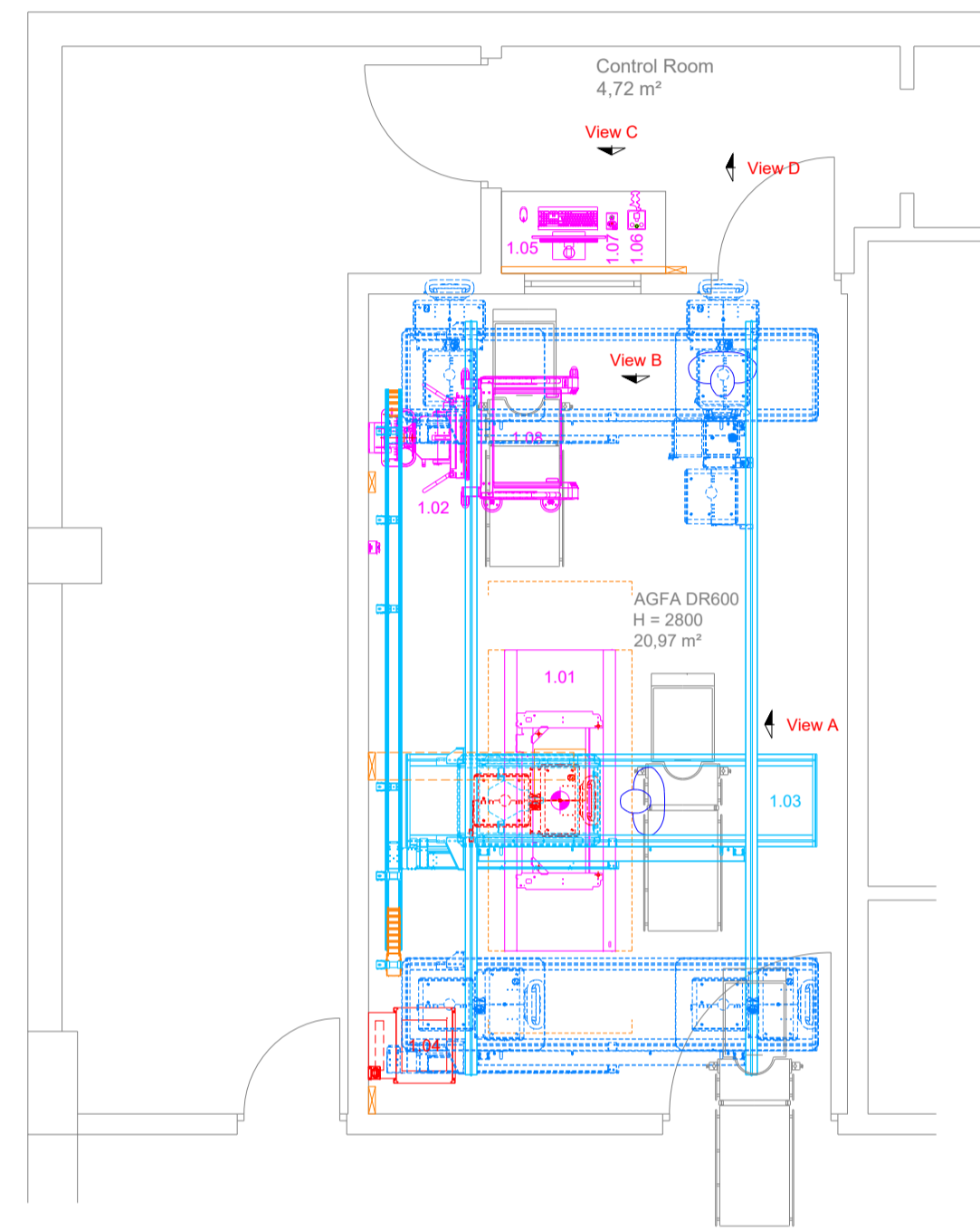
Children's Hospital Agia Sofia
Athens
Greece

Site preparations - Side views
Room height finished floor to Concrete Ceiling
Suspended Ceiling

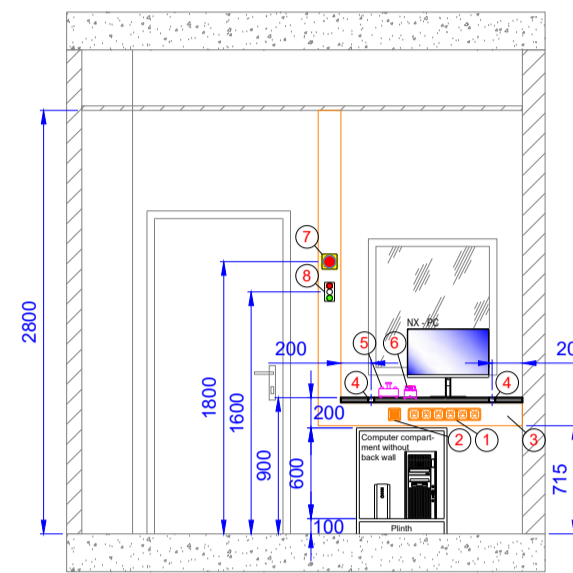
Scale 1:50
0m 1m 2m

Customer number	Project	Plan index	Filename
	AGFA	A1.04	

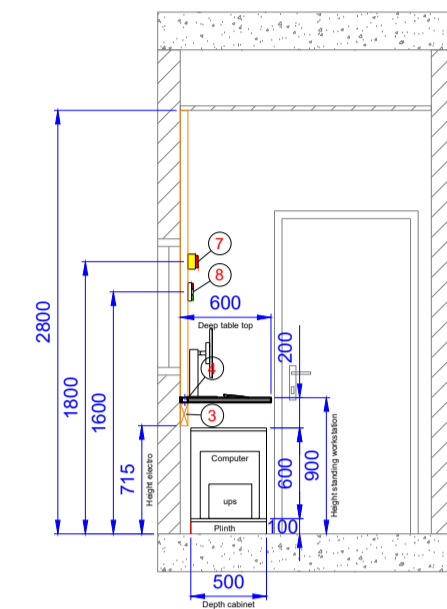
Site preparations Technical details - Workstation



Detailed sideview C



Detailed sideview D



AGFA DR 600 – Equipment Legend

Pos.	Description	Weight (kg)
1.01	X-Ray Table	250
1.02	Wall Stand	196*
1.03	Ceiling Suspension	351
1.04	Generator HFe Serie	120
1.05	Agfa Workstation	...
1.06	Generator on/off and exposure switch	...
1.07	Dead man switch/autopositioning	...
1.08	DX-D FLFS	...

*= tilting version without spacer

Sockets 1N 230 - 240V	1 Six sockets 1N/230-240V/50Hz, Fuse 16A
Network Sockets RJ45	2 Network sockets RJ45
Ø 40mm bore with table rosettes	3 Cable duct 150x50mm
On/off button with indicator light	4 Hole in the table with table rosettes
Emergency stop with lock	5 Generator on/off and exposure switch
Dead man switch/autopositioning	6 Dead man switch/autopositioning
Generator on/off and exposure switch	7 Emergency stop with lock
	8 On/Off button with indicator light

Site Preparations Technical Details - Workstation

We reserve the right to make technical alterations.

All data serve for the on-site preparation for installation and cabling of the Agfa DR 600 system in order to ensure correct operation.

This plan is not a construction drawing and is not to be used for carrying out construction work.

Dimensioning

All installation measurements apply to finished wall or floors and are to be checked prior to assembling the unit.



Orientation point = reference point of the unit for planning and installation

Room dimensioning

The indicated room dimensions have to be checked on site. The planning department has to be informed about possible deviations. Otherwise we cannot assume any guarantee for the accurate implementation of the dimensions indicated in the planning documents.

Customer Release Acknowledgement

I agree to this preliminary as the basis for implementation planning. We have been informed of the importance of heeding all notes and requirements. Agfa Healthcare does not check and monitor compliance with on-site requirements and planning specifications, such as structural engineering, climate control, preparations for installation and electrical installations. We will contract the implementation and monitoring of on-site preparations for installation to qualified specialists.

Customer: _____

Name	Signature	Date
First creation	Quattek	28-05-2024
Editing progression	Edited	Checked
	Sign.	Released
		Sign.



Children's Hospital Agia Sofia
Athens
Greece

Site preparations - Workstation

Room height finished floor to
Concrete Ceiling
Suspended Ceiling

AGFA DR 600

Scale 1:50
0m 1m 2m

Customer number	Project	Plan index	Filename
	AGFA	A1.05	