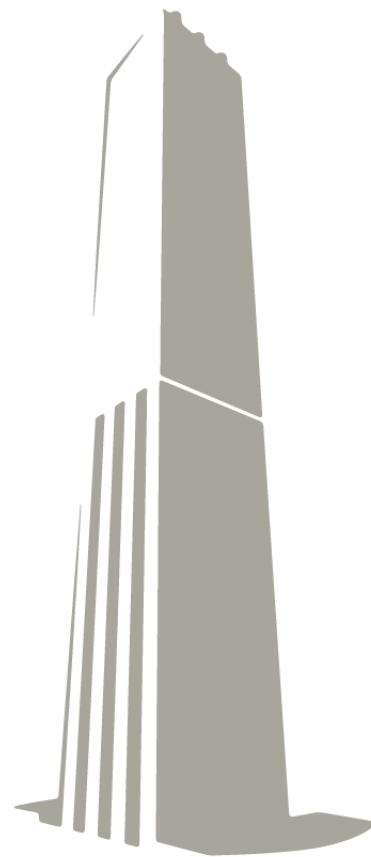


C SEED

IMPLEMENTATION CONCEPT

201 HLR



C/SEED

Content

CSEED 201

Location

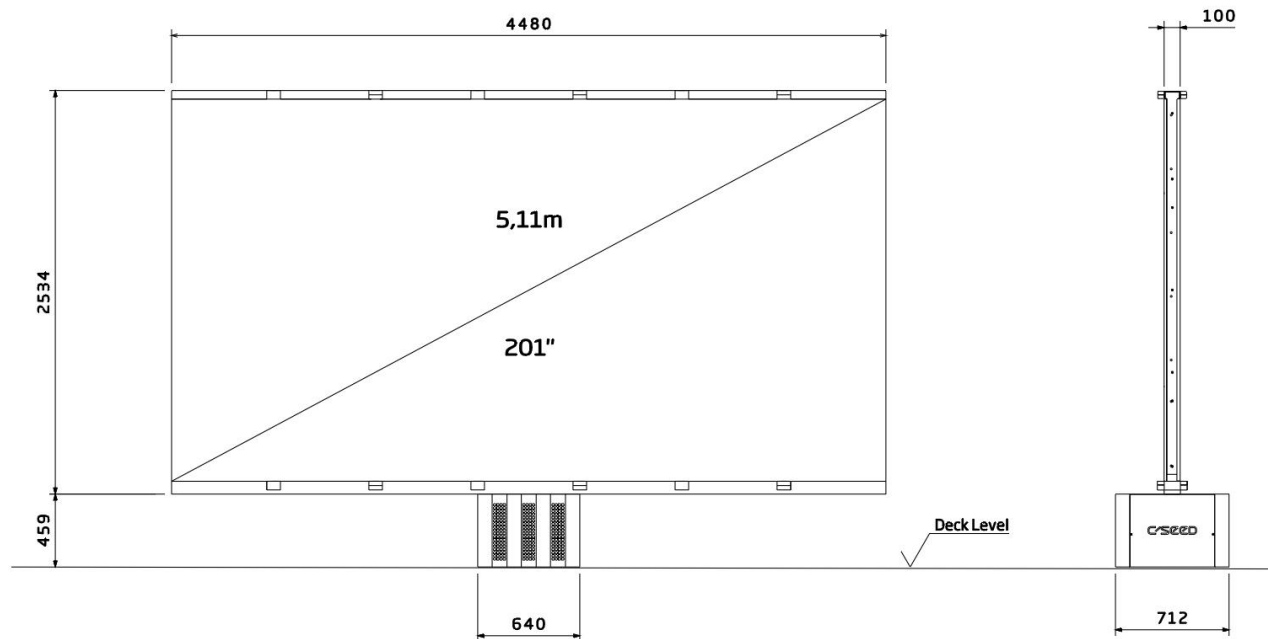
Equipment & Components

Electrical Requirements

Responsibilities CSEED

Responsibilities Customer

CSEED 201 HLR

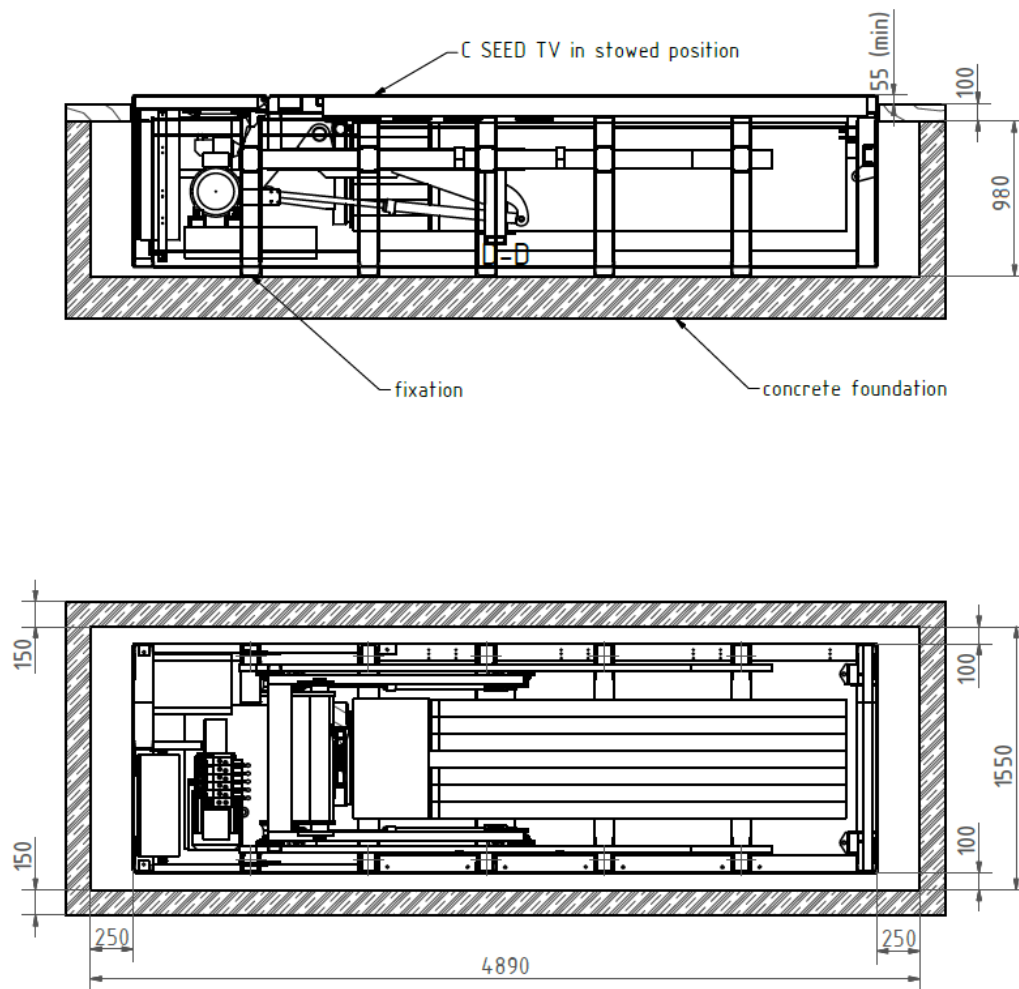


PHYSICAL DIMENTIONS TV

LED TV Size (diagonal)	inch/mm	201 / 5.105
LED TV Size (Width)	inch/mm	176.4 / 4.480
LED TV Size (Height)	inch/mm	94.5 / 2.400
Standard LED Screen (Depth)	inch/mm	4.3 / 110
LED TV Area	sq.ft./m ²	116 / 10,8
LED TV Weight	kg	1.050

TV SYSTEM

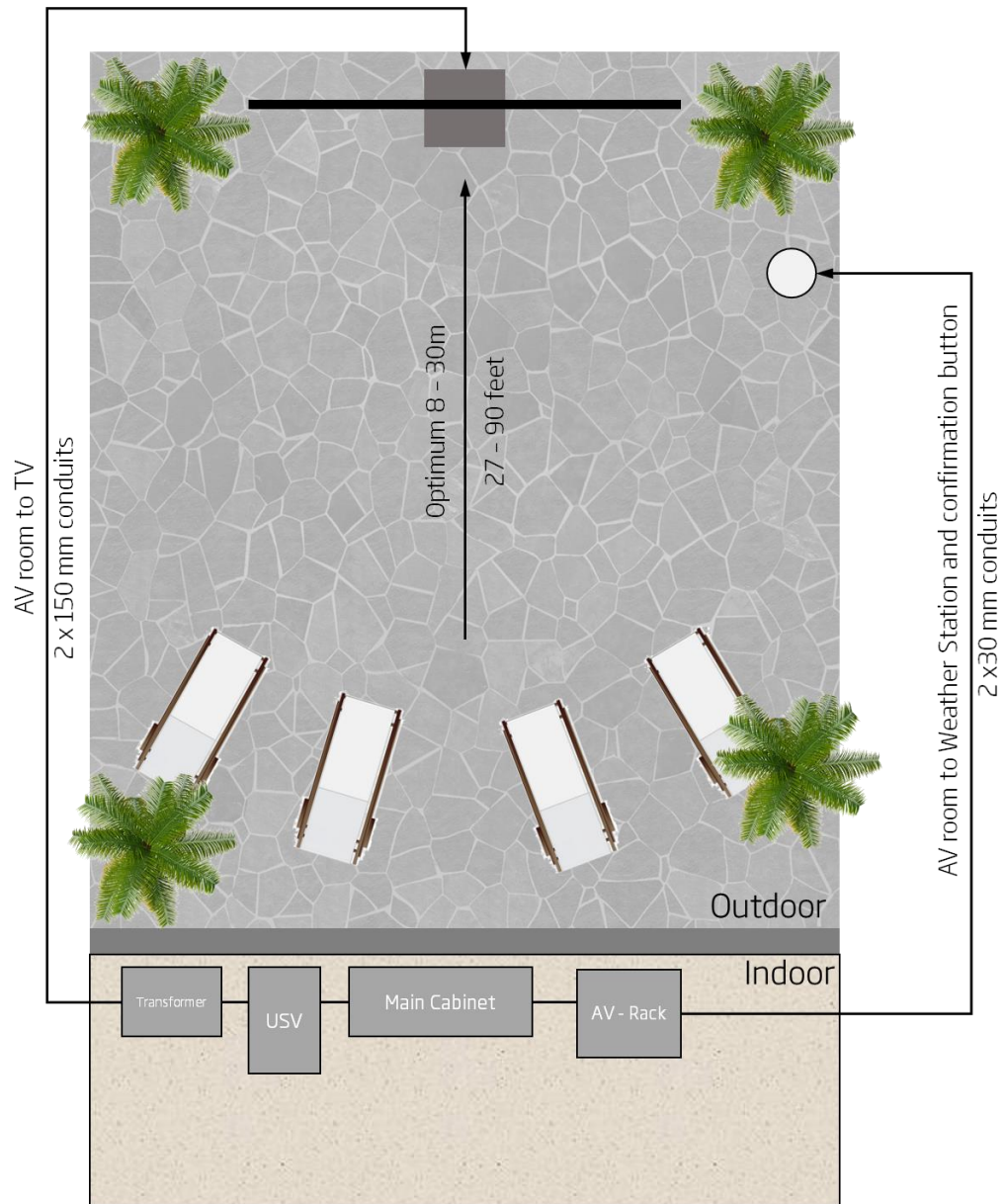
Brightness	nits	4.500
Brightness Control		Manual
Processing Depth	bit	16 per color
Color Spectrum	Colors	64 billion
Refresh Rate	Hz	1.920
Lifespan	h	100.000
Contrast Ratio		5.000:1
Color Temperature	K	6.500-9.000
Viewing Angle- Horizontal	degrees	160
Viewing Angle- Vertical	degrees	140
LED Fixings		Back-Service
Operating Temperature Range	°C	-20 to +45
LED Failure Rate		≤0.01% (0% at delivery)
Broadband speaker peak out	W	2 x 250
Broadband speaker frequency range		40 Hz - 25 kHz
Subwoofer peak out	W	1 x 700
Subwoofer frequency range		24 Hz - 200 Hz



PHYSICAL DIMENTIONS STOWED POSITION

Shaft Size (Length)	inch/mm	192,5/ 4.890
Shaft Size (Width)	inch/mm	61 / 1.550
Shaft Size (Height)	inch/mm	39 / 980

LOCATION



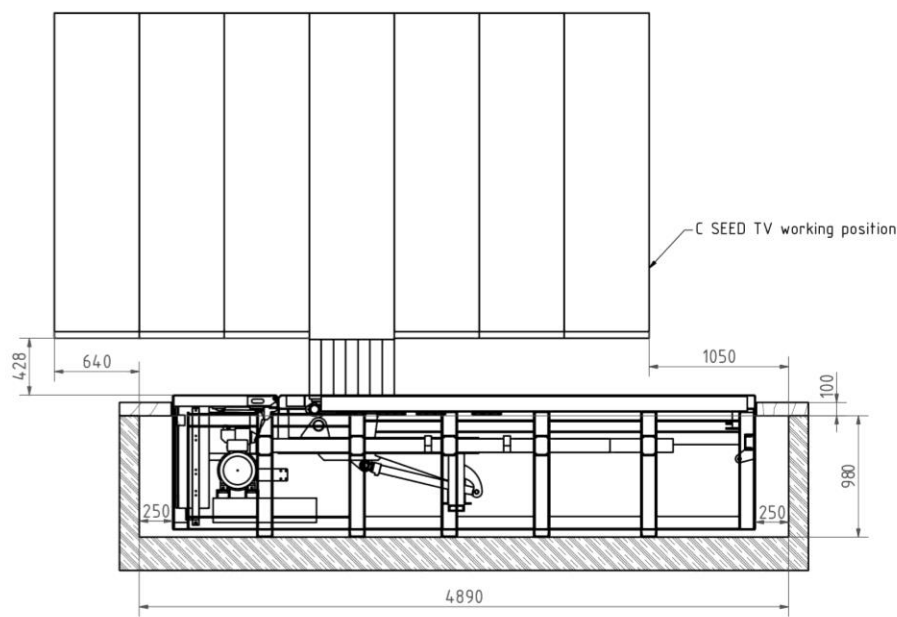
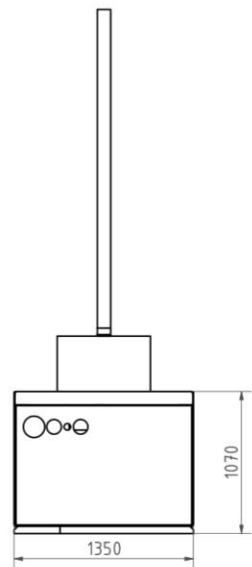
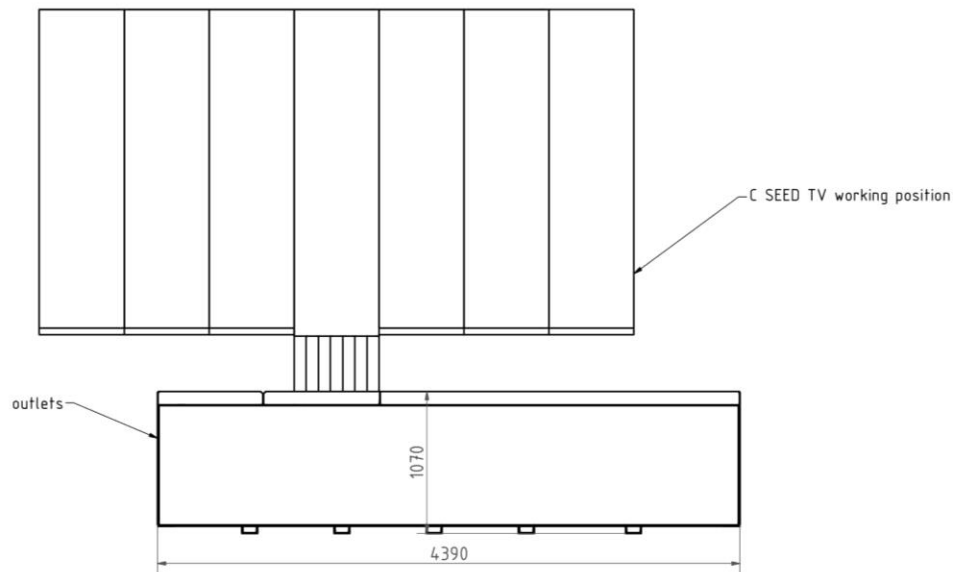
*Layout will get changed acc to the property

According to exact positions of cabling conduits:

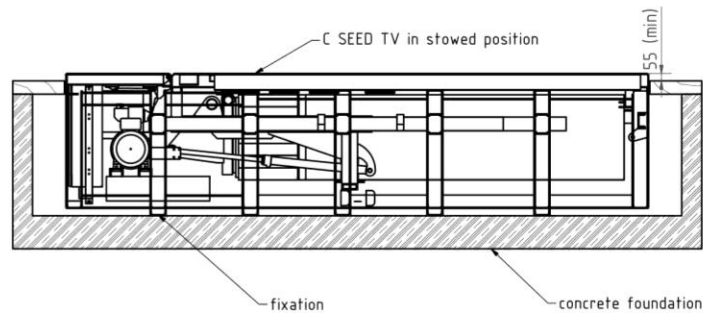
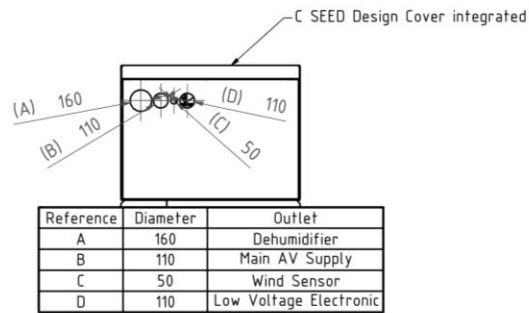
- C SEED 201 HLR to UPS (max. 100 m | 320 feet)
- C SEED 201 HLR to control cabinet unit (max. 100 m | 320 feet)
- C SEED 201 HLR to multi media server (max. 100 m | 320 feet)

Concrete basin

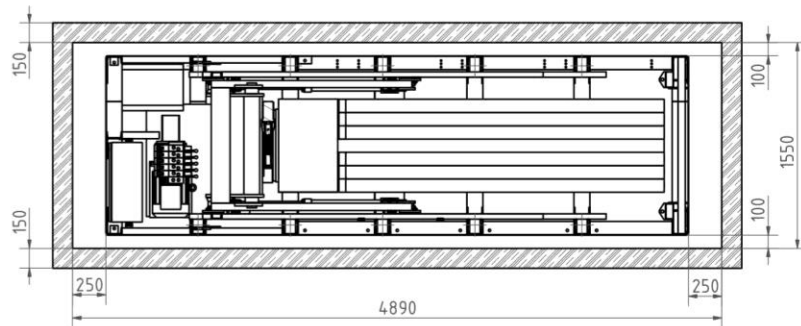
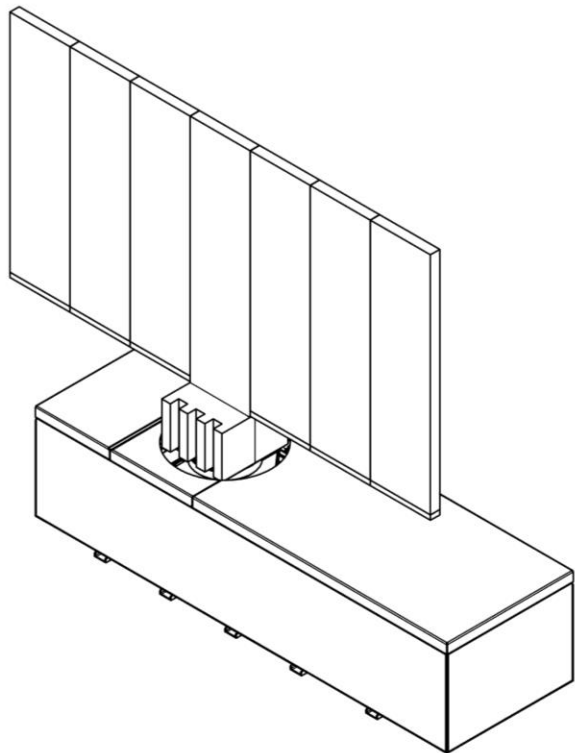
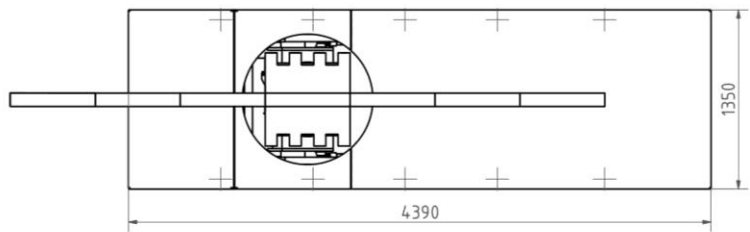
WORKING POSITION
front view



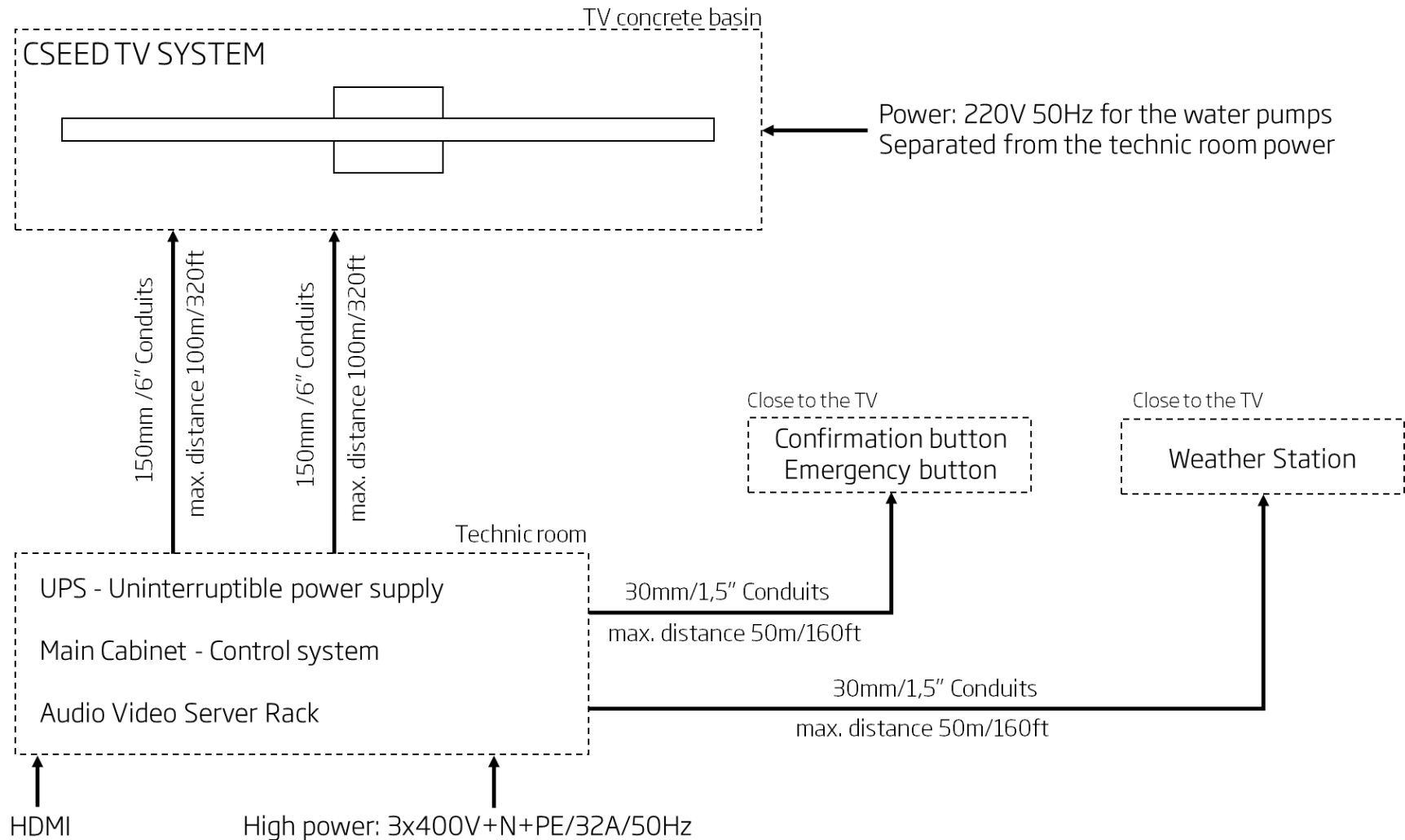
STOWED POSITION
front view



top view

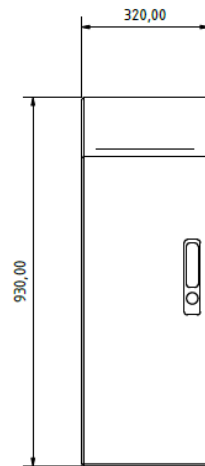


Electrical Overview

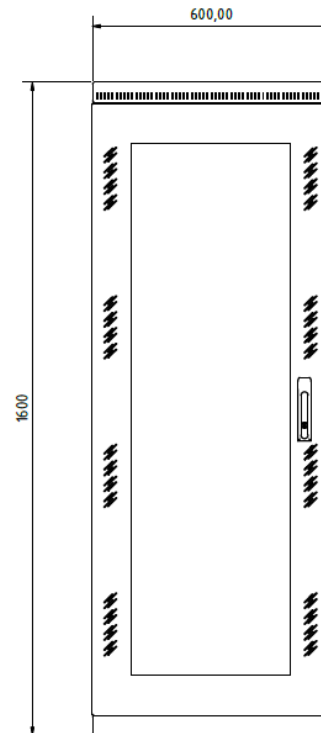


Equipment

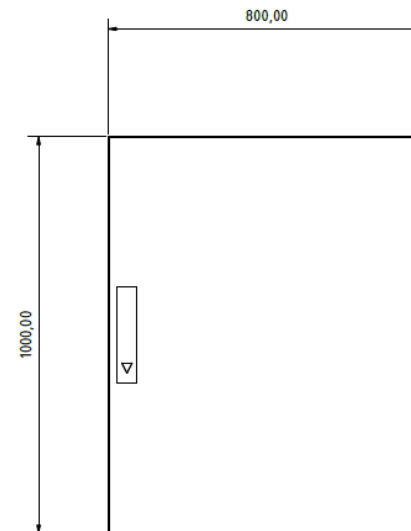
USV - UPS



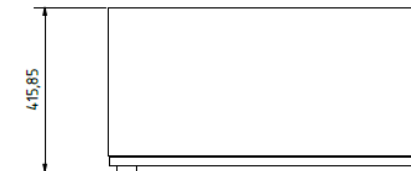
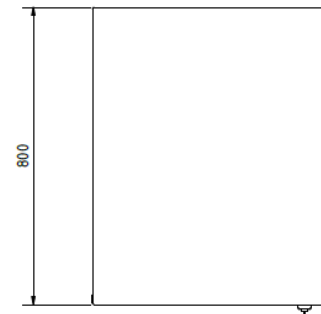
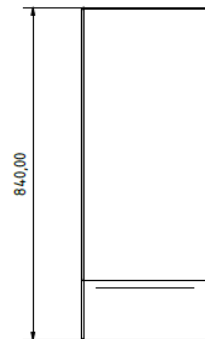
AV-Rack



Main Cabinet



Front view



Top view

TV SYSTEM COMPONENTS

TV SHAFT

- ca. 4890x1550x980 mm | 193x62x39 inches | LxWxD
 - according to final TV shaft plan
- Earthing of the TV well (min. 3 times)
- Drainage - Natural drainage directly from the sump pit
- Emergency stop buzzer
- HMI | Touch panel for wired system control
- De-hydration device (provided by C SEED) N/Y
- Air condition system (**provided by owner of the venue**) N/Y
- Heating device (**provided by owner of the venue**) N/Y

TECHNICAL ROOM

100m | 320 feet from TV shaft | 2 Conduits with 150mm | 6 inches (not less)

Transformer | Power Converter (**provided by owner of the venue**)

- Requested Output: 400V - 32A- 3 Phases +N +PE.

UPS | uninterrupted power supply

- 44x132x85 cm | 17x52x34 inches | WxHxD
- High power: 3x400V+N+PE/32A/50-60Hz uninterrupted high power
 - high power transformer needed (**provided by owner of the venue**)

Control unit | Main Cabinet

- 1000x2000x500 mm | 39x78x20 inches | WxHxD
 - feed cable with 5 pins or 4 pins plus additional earthing
- power protection with a fault-current circuit breaker AC/DC sensitive and electric frequency converter capable"

Multi media server & rack monitor

- SAT | video | TV signals to be connected via HDMI inputs
- 6x 230V | 50 Hz uninterrupted power (European plugs)
- Internet connection as of beginning of installation (permanent!)
- Rack monitor
- Number of HDMI inputs (max. 1)

Weather station / wind sensor

- Location near the screen - conduit needed to TV shaft diameter ca. 50mm I 2 inches

Cabling ducts and conduits

- 1 tube with diameter ca. 150 mm I 6 inches (not less)
 - Located between electricity cabinet and TV shaft (high power connection)
- 1 Tube with diameter ca. 150mm I 6 inches (not less)
 - Located between AV room and TV shaft (data cables from MMS)
- 1 Tube with diameter ca. 50mm I 2 inches (not less)
 - Located between weather station and TV shaft (weather station data)

RESPONSIBILITIES

SERVICES PROVIDED BY AND AT THE EXPENSES OF THE OWNER OF THE VENUE

- High power: 3x400V+N+PE/32A/50-60Hz uninterrupted high power at UPS
- Internet connection at the multi media server as of beginning of the installation
- WIFI I WLAN at the venue as of beginning of the installation
- Permissions of local authorities as appropriate
- Civil engineer calculations I statics and permits
- Access for heavy duty excavator, crane and trucks to TV well
- Excavation for the construction of the TV shaft according to ground-structure
- Waterproof construction of the TV shaft according to C SEED shaft plan
- Cabling ducts and conduits to and from TV shaft according to plan
- Sat I video I TV signals at the media control center
- Crane on site approximately 20 hours in total (max. 4,5 tons & 10 meters of height)
- Revitalization of the venue when operating I post-installation

SERVICES PROVIDED BY C SEED

- 1 site visit (meeting with construction company I civil engineer I etc.)
- Standard plan for construction of the TV well for local civil engineer
- Plan of locations (indoor I outdoor) of system components
- Plan of cabling ducts and conduits
- Delivery of all cables (electrical & optical fiber cables)
- Coordination with local electrician
- Coordination with local sat I video I TV professional
- Implementation, programming & testing of the C SEED 201 HLR
 - TCP/IP control protocol for home automation
- Operation training for technical staff of the venue

Contacts

Owner representative

Construction company of the venue

C SEED Project manager

Checklist Customer

- ☐ High power: 3x400V+N+PE/32A/50-60Hz uninterrupted high power at UPS
- ☐ Internet connection at the multi media server as of beginning of the installation
- ☐ WIFI I WLAN at the venue as of beginning of the installation
- ☐ Permissions of local authorities as appropriate
- ☐ Civil engineer calculations I statics and permits
- ☐ Access for heavy duty excavator, crane and trucks to TV well
- ☐ Excavation for the construction of the TV shaft according to ground-structure
- ☐ Waterproof construction of the TV shaft according to C SEED shaft plan
- ☐ Cabling ducts and conduits to and from TV shaft according to plan
- ☐ Sat I video I TV signals at the media control center
- ☐ Crane on site approximately 20 hours in total (max. 4,5 tons)
- ☐ Revitalization of the venue when operating I post-installation
- ☐ Transformer I Power Converter -Requested Output: 400V - 32A- 3 Phases +N +PE.
- ☐ Air condition system (provided by owner of the venue)
- ☐ Heating device (provided by owner of the venue)