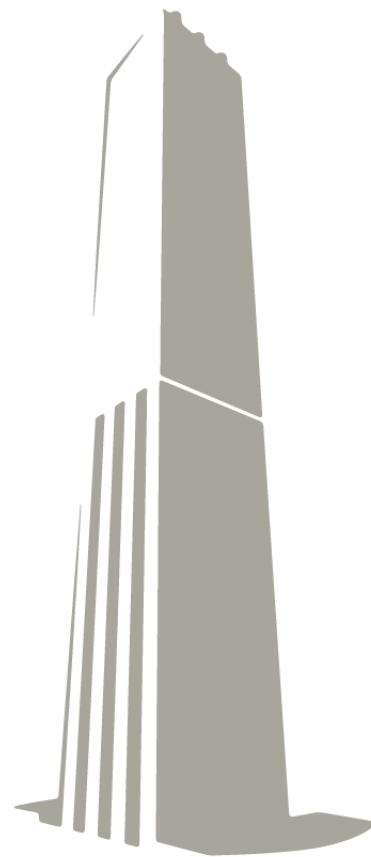


C SEED

IMPLEMENTATION CONCEPT

144 HLR

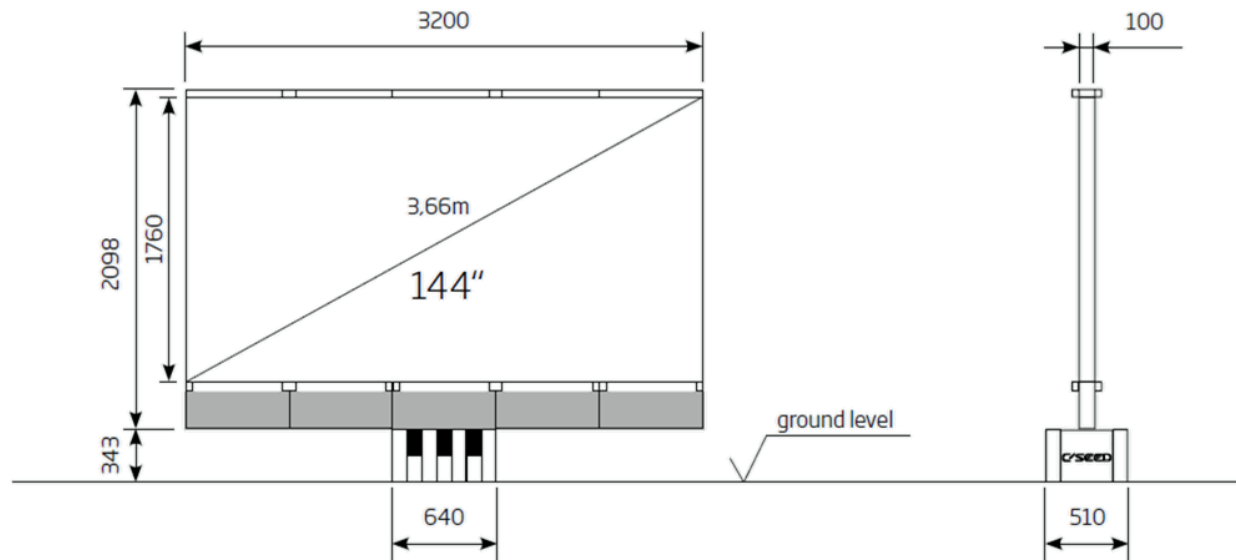


C/SEED

# Content

1. CSEED144 HLR
2. Location
3. Equipment & Components
4. Electrical Requirements
5. Responsibilities CSEED
6. Responsibilities Customer

# CSEED 144 HLR

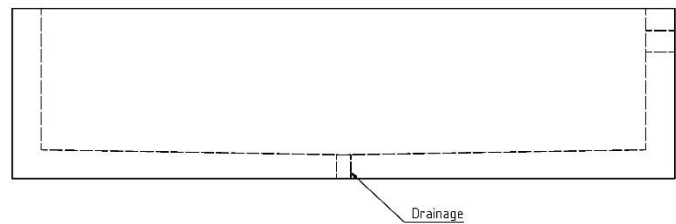
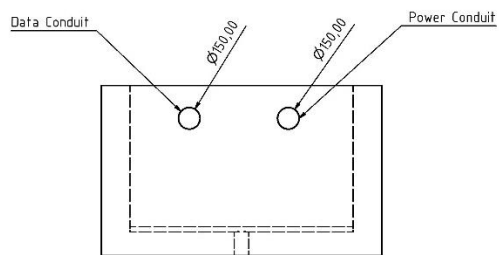
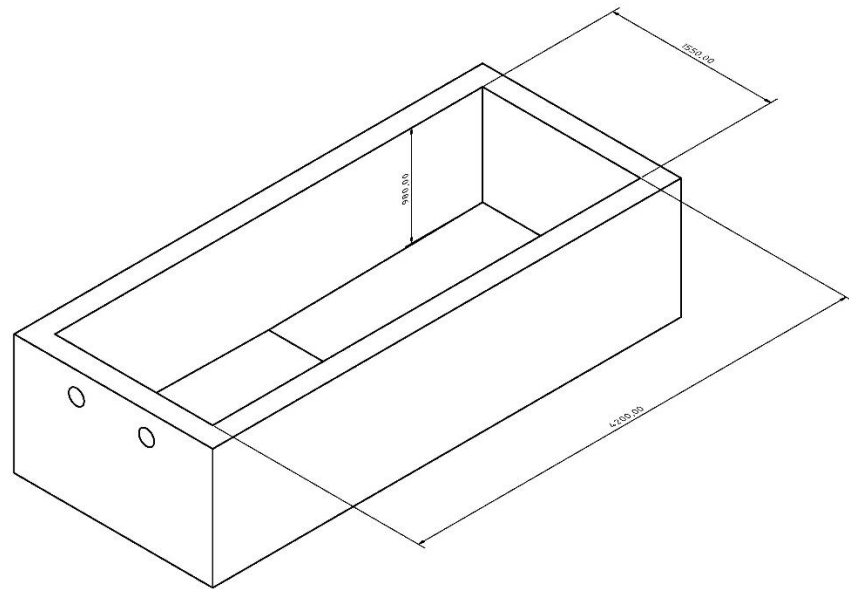


## PHYSICAL DIMENTIONS TV

LED TV Size (diagonal)	inch/mm	144 / 3658
LED TV Size (Width)	inch/mm	126 / 3200
LED TV Size (Height)	inch/mm	69 / 1760
Standard LED Screen (Depth)	inch/mm	3,9 / 110
LED TV Area	sq.ft./m <sup>2</sup>	63 / 5,6
TV System Weight	Kg/lb	2700 / 5900

## TV SYSTEM

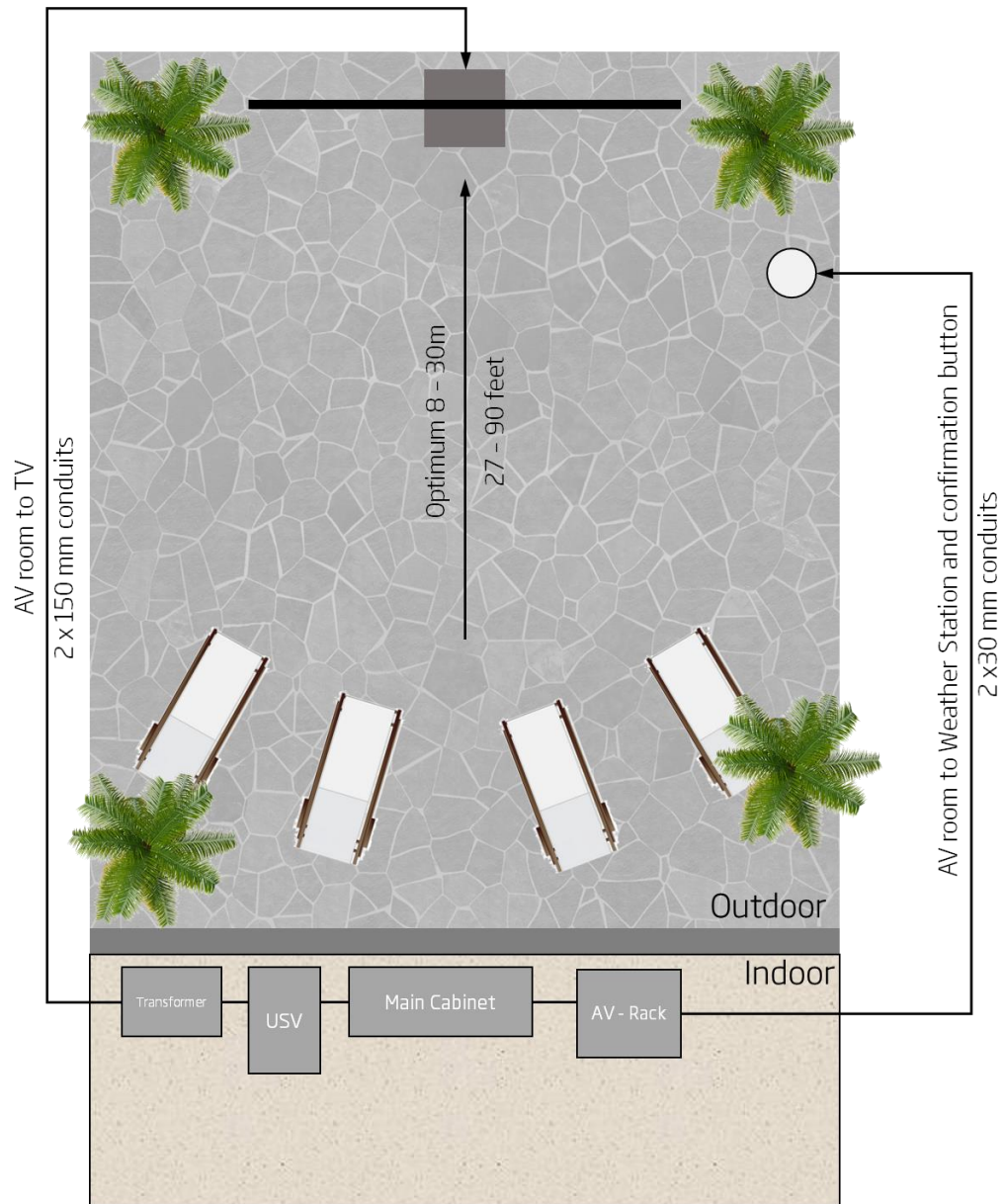
Pixel Pitch	mm	2,8 mm
Brightness	nits	4.500
Brightness Control		Manual
Processing Depth	bit	16 per color
Color Spectrum	Colors	64 billion
Refresh Rate	Hz	1.920
Lifespan	h	100.000
Contrast Ratio		5.000:1
Color Temperature	K	6.500-9.000
Viewing Angle- Horizontal	degrees	160
Viewing Angle- Vertical	degrees	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	4 x 250
Broadband speaker frequency range		40 Hz - 25 kHz



#### DIMENTIONS OF THE CONCRETE BASIN

Shaft Size (Length)	inch/mm	166/ 4.200
Shaft Size (Width)	inch/mm	61 / 1.550
Shaft Size (Height)	inch/mm	39 / 980

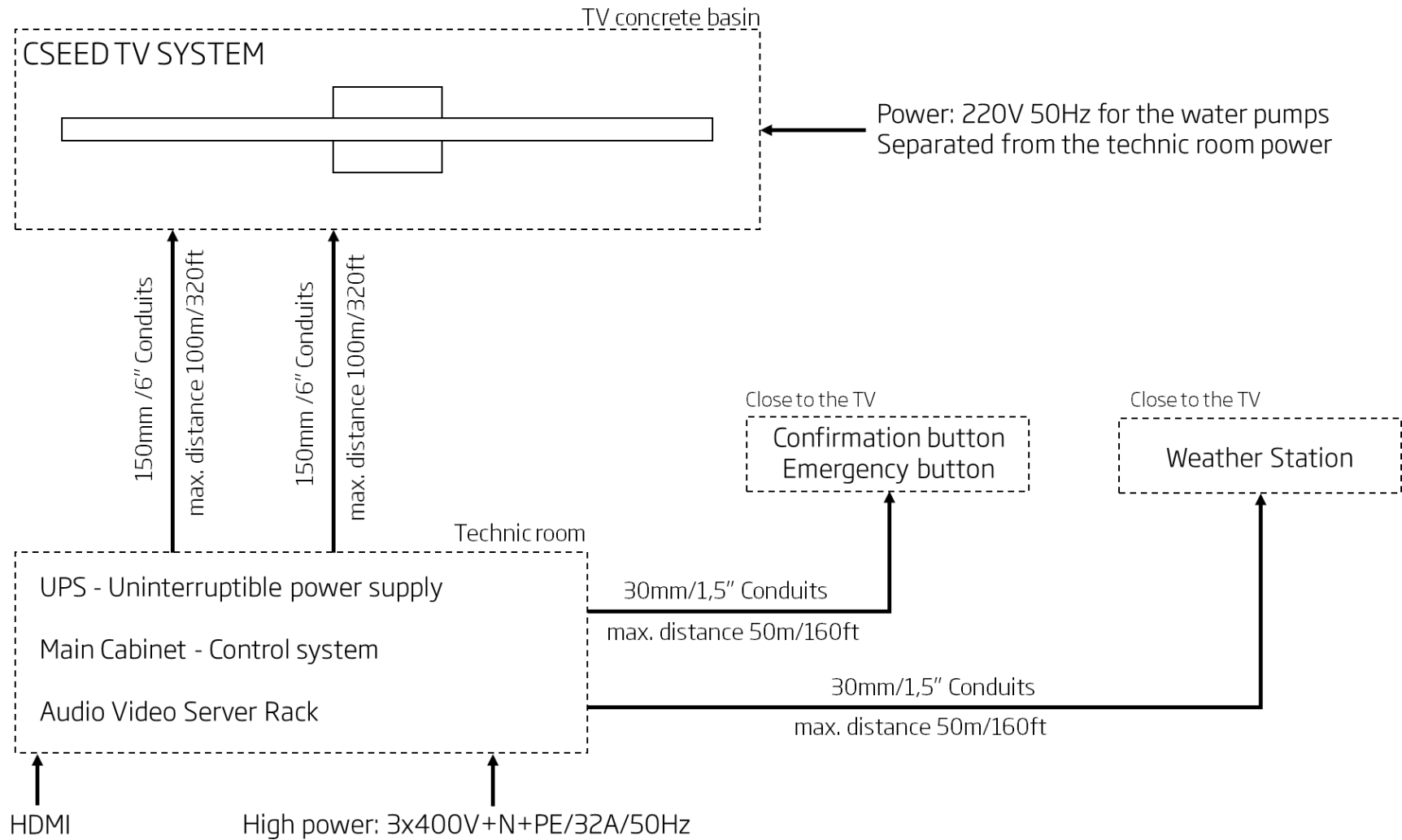
# LOCATION



## DISTANCES

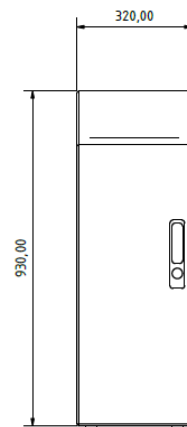
- C SEED 144 Main Cabinet to UPS (max. 20 m | 60 feet)
- C SEED 144 HLR to main cabinet (max. 100 m | 320 feet)
- C SEED 144 HLR to Audio video server rack (max. 100 m | 320 feet)

# Electrical Overview

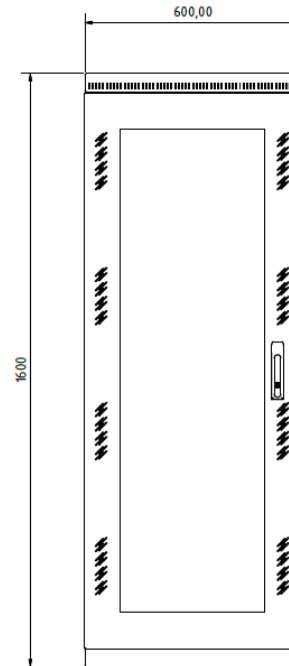


# Equipment

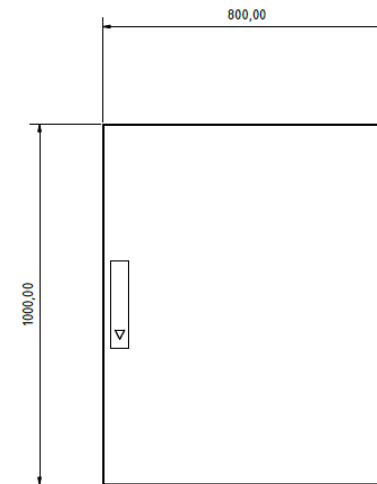
USV - UPS



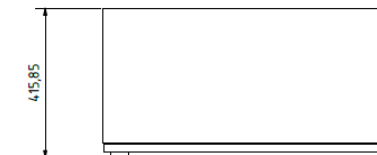
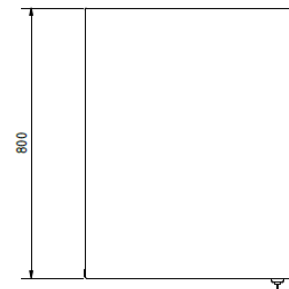
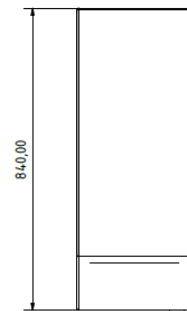
AV-Rack



Main Cabinet



Front view



Top view



# TV SYSTEM COMPONENTS

## TV CONCRETE BASIN

- ca. 4200x1550x980 mm | 166x62x39 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 if needed**)

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

UPS | uninterrupted power supply

- 44x132x85 cm | 17x52x34 inches | WxHxD
- High power: 3x400V+N+PE/32A/50Hz uninterrupted high power

Control unit | Main Cabinet

- 1000x2000x408 mm | 39x78x16 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 (min. 3 tons lifting weight & 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 144 HLR
  - TCP/IP control protocol for home automation
- Operation training for technical staff of the venue

# Contacts

Owner representative

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Construction company of the venue

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C SEED Project manager

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# 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 (min. 3t lifting weight)
- ☐ 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)