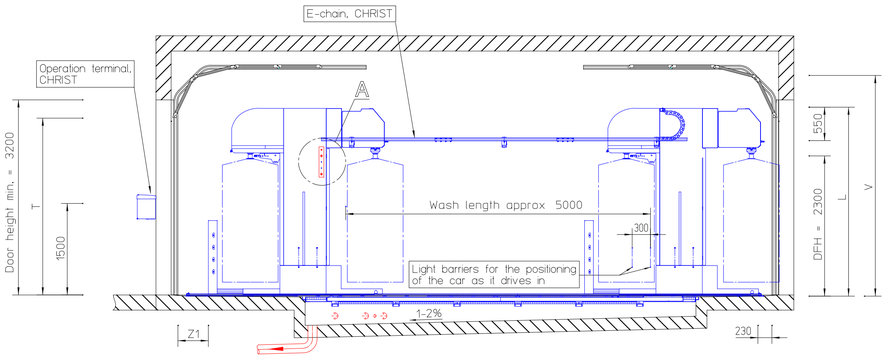
The deposit tray of the energy management chain shall be connected by the customer to a potential equalization.

B – B

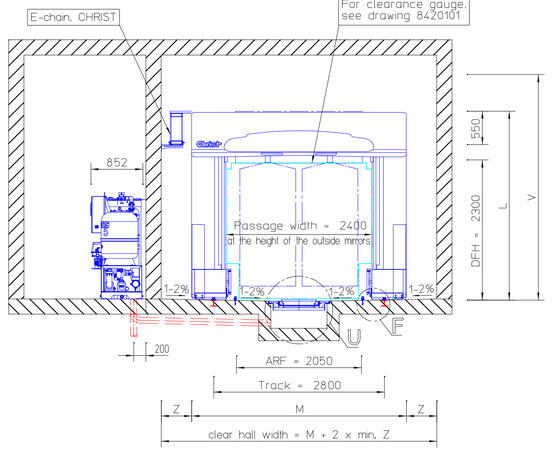


The hall lengths each refer to a wash length of 5000 mm with wash material SENSOTEX+, with PWA basic version. Optional PWA equipment may have an influence on the wash lengths. If a longer wash length is required, a hall length extension is required accordingly.

A – A

With a light-weight hall, see drawing PA00029417

PWA Shown



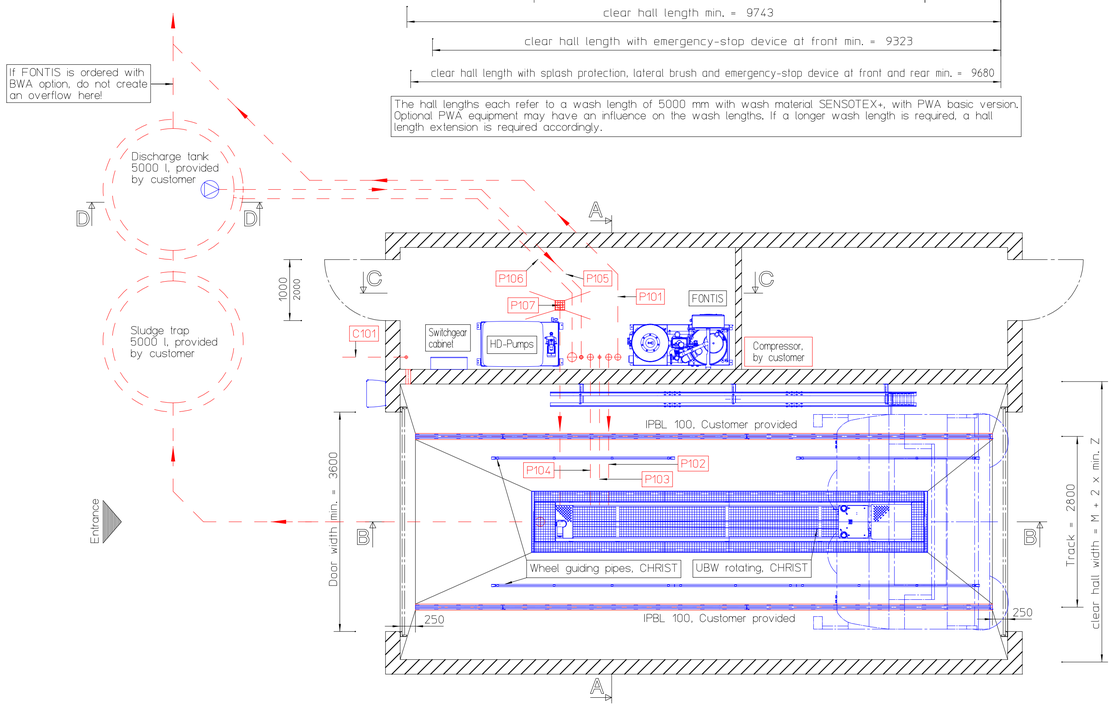
Roll over wash unit QUANTUS C165					
Passage height DFH	2250	2350	2450	2550	2650
L Machine height (with horizontal splash protection + 50mm)	3080	3180	3280	3380	3480
V Clear hall height, min.	3130	3230	3330	3430	3530
Passage width DFB	2400				
Distance wheel guiding pipes ARF	2050				
M Machine width max.					
- without splash protection	3520				
- with splash protection	3720				
- with splash protection and articulated brush for DFH 2250	4045				
- with splash protection and articulated brush for DFH 2350	4075				
- with splash protection and articulated brush for DFH 2450	4105				
- with splash protection and articulated brush for DFH 2550	4135				
- with splash protection and articulated brush for DFH 2650	4165				
Track widths of track	2500				
	2700				
Standard	2800				
	2900				
	3126				

TE	Connection height E-chain	2250	2350	2450	2550	2650
Z	Safety distance 500 mm					
Z1	Safety distance without emergency-stop device 500 mm					
	Safety distance with emergency-stop device 120 mm					

- recirculation
- sewage pre-treatment
- waste water inlet line

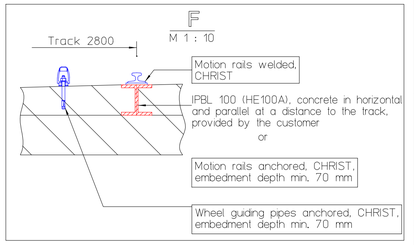
see general pointers

If FONTIS is ordered with BWA option, do not create an overflow here!



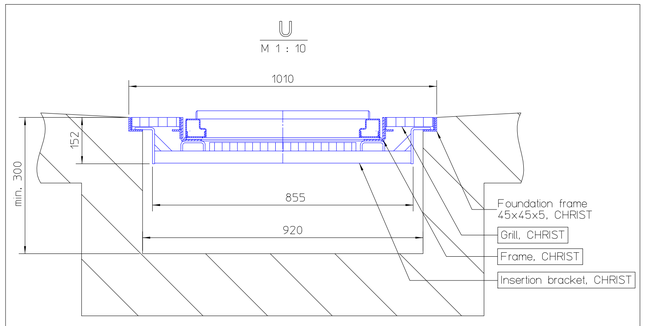
F

M 1 : 10



U

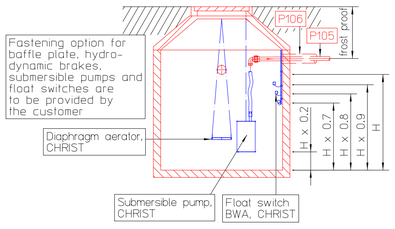
M 1 : 10



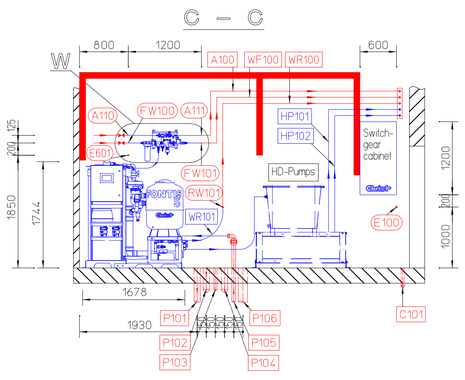
Legend for supply connections and lines - installed by customer		
Pos.	Designation	Specification
E100	Electric connection of PWA inkl. supply pump up to max. 12,0 kW: supply pump up to max. 16,0 kW: supply pump up to max. 20,0 kW: supply pump up to max. 24,0 kW:	400 V, 3/N/PE, 50 Hz, cable with 2 m protrusion 19,0 kW, 38 A 24,0 kW, 47 A 29,0 kW, 55 A 34,0 kW, 65 A
E601	Electric connection of switchboard plant FONTIS-S,	3,5 kW, 400 V, 3/N/PE, 50 Hz, 7 A, cable with 2 m protrusion
FW100	Fresh water connection from the water network	Connection DIN EN 10226-1, Rp 1", inner thread, lockable, flow pressure 4 bar, delivery rate 100l/min.
FW101	Fresh water connection from the installations room into the wash hall	Connection DIN EN 10226-1, Rp 1", inner thread, lockable, flow pressure 4 bar, delivery rate 100l/min.
FW102	Fresh water connection wash hall	Connection DIN EN 10226-1, Rp 1", inner thread, flow pressure 4 bar, delivery rate 100l/min.
WF100	Fresh water pressure line	Flow pressure 4 bar, delivery rate 100l/min.
RW101	Recycled water connection from the installations room into the wash hall	Connection DIN EN 10226-1, Rp 1", inner thread, flow pressure 4 bar, delivery rate 100l/min.
RW102	Recycled water connection wash hall	Connection DIN EN 10226-1, Rp 1", inner thread, flow pressure 4 bar, delivery rate 100l/min.
WR100	Recycled water pressure line	Flow pressure 4 bar, delivery rate 100l/min.
A110	Compressed air connection installations room	Connection DIN EN 10226-1, Rp 1/2", inner thread, lockable Flow pressure 6 bar, delivery rate (of a piston compressor): 300 l/min. - plant with anti-frost / water emptying 200 l/min. - plant without anti-frost / water emptying
A111	Compressed air connection from the installations room into the wash hall	Connection DIN EN 10226-1, Rp 1/2", inner thread, lockable, flow pressure 6 bar, delivery rate 300 l/min
A112	Compressed air connection wash hall	Connection DIN EN 10226-1, Rp 1/2", inner thread, flow pressure 6 bar, delivery rate 300 l/min
A100	Compressed air line	Flow pressure 6 bar, delivery rate 300 l/min

Legend for unterground pipe an empty conduits - installed by customer		
Pos.	Designation	Specification
P101	Outlet pipe FONTIS-S - BWA	DN 100, with gradient to the sewerage system
P102	Outlet pipe FONTIS-S - backwash	DN 100, with gradient to the UBW or slugt trap
P103	Empty conduit FONTIS-S - flocculant dosing	DN 50, with puling wire and gradient to the UBW or sludge trap
P104	Empty conduit UBW	DN 100, with pulling wire and gradient to the UBW
P105	Pressure line FONTIS-S - wastewater, (with use of CHRIST-BIOCLEAR twin version)	DN 50 (HDPE-pipe 63x5,8 mm, PN6, DIN 8074/8075), connectors DIN EN 10226-1, Rp 2", inner thread, both on sides, gradient to discharge tank, max. length 25 m, geodetic height 3 m
P106	Empty conduit FONTIS-S supply line for discharge tank	KG 160, DIN 19534 (water-bearing), with pulling wire gradient to the discharge tank
P107	Outlet pipe installations room	DN 100, with gradient to the sludge trap
C101	Empty conduit C-CAT data cable, to the cash office	DN 50, with pulling wire to the cash office (request data cable for installation by the customer from CHRIST)

D – D

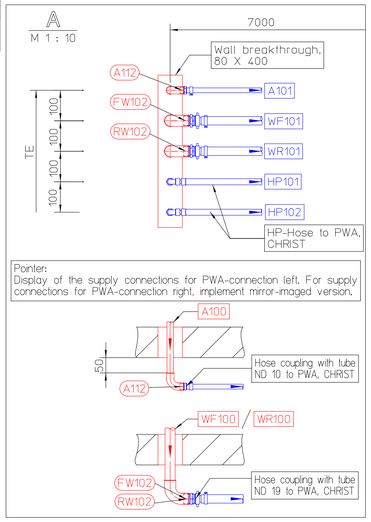


C – C



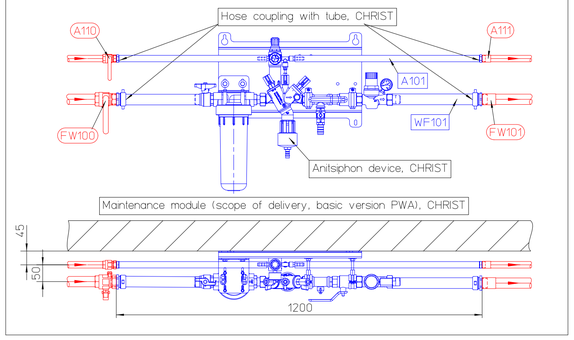
A

M 1 : 10



W

M 1 : 10



Lines and pipes	
above floor:	continuous line ———
under floor:	dotted line — — — —

Representation:	
Red:	customer provided performance / provided by the customer
Blue:	CHRIST scope delivery
Black:	foundation and building provided by the customer

Abbreviations:	
PWA	roll over wash unit
UBW	under-chassis wash device
BWA	recycled water ejection
E-chain	energy management chain
ARF	distance, wheel guiding pipes
HD	high-pressure

Legend for the lines: by Christ	
Pos.	Designation
WF101	pressure line for fresh water 1
WR101	pressure line for recycled water 1
HP101	pressure line for high-pressure 1
HP102	pressure line for high-pressure 2
A101	compressed air line

General pointers:

- This plan is a general one and cannot be used as implementation plan.
- The plan is a reference for the architect / planner.
- Inform the OTTO CHRIST AG about any deviation of the customer provided performances.
- Specified dimensions in mm.
- The specified dimensions concern the prefabrication.
- The wash hall and the installations room shall be illuminated according to the regulations.
- The wash hall and the installations room shall be sufficiently aerated and ventilated.
- The sites of the wash systems and the technology must be frost proof.
- The floor of the wash halls, wash bays and installations rooms shall be liquid-tight and skid-resistant.
- Make sure that the elements / device placed in the wash hall and the installations room are sufficiently protected against corrosion.
- The walls, paints, wall and floor tiles shall be resitant against the chemicals that will be used.
- All lines and connections described in the legend must be provided by the customer and installed according to local regulations.
- The outlet pipes, empty conduits and lines installed indoor and outdoor must be frost resistant.
- Wash halls in light construction, a crossarm is required over the complete hall length to accommodate the E-chain.
- In the work and traffic zone of the wash system, a safety distance of min. 500 mm shall be available between the wash system and the fixed parts of the surrounding, up to a height of 2000 mm over the stand area of staff. If the safety gap cannot be maintained, automatic safety devices are required.
- In the work area of the wash system (= clear hall length, width and height) no disturbing contours are permitted due to parts provided by the customer.
- The use of a water preparation unit, the model of the separator system and the waste water inlet line must be in accordance with local regulations and are subject to approval.
- The recirculation and sewage pre-treatment of sewage water from the mechanical vehicle cleaning for discharge into the public drainage system in accordance with annex 49 of the wastewater decree (AbWVO) must either take place via the sludge trap 5000 l. the discharge tank 5000 l and separator of class I in accordance with DIN EN 858-1, DIN EN 858-2 and DIN 1999-100.
- Empty conduits must be closed by the customer after installation by CHRIST.
- It is up to the customer to take protective measures as required by the public power supply company for the electrical cables. If a leakage current protection device is used, the electric supply line E1 type B (sensitive to all types of current) with min. 300 mA is is the only one approved. Separate protective measures should be taken by the customer for the wash technique.
- The CHRIST door control shall be connected to the one provided by the customer by the door manufacturer or an electrician ordered by the customer. The surveillance of the doors shall be ensured by means of the door control of the door manufacturer.
- The electric supply lines provided by the customer must be connected to the CHRIST switch-board plant in accordance with the connection provisions specified by the local power supply company.
- Subject to technical modifications.

OTTO CHRIST AG
WASH SYSTEMS
87882 MEMMINGEN
POSTFACH 1254 TELEFON 08331/857-0

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Zust.	Aenderung	Datum	Name
			Bearb. 09.11.12 Brehm
05	UBW 101 + Textanp.	05.12.13	Brehm
04	Textanpassung Not-Halt	05.12.13	Brehm
03	Textanpassung DFB	05.12.13	Brehm
02	Testerg. DFH/DFB/Spur	05.12.13	Brehm
01	Ueberarbeitet	05.12.13	Brehm

Maßstab 1 : 50 | A1

INSTALLATION PLAN C165 QUANTUS

8421165-EN | REV 05 | Blatt 1 | 1 Bl.