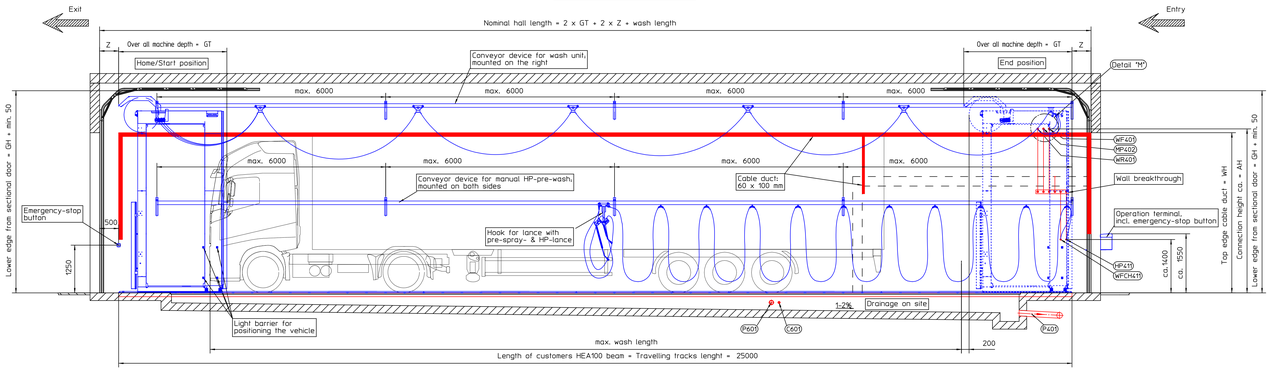
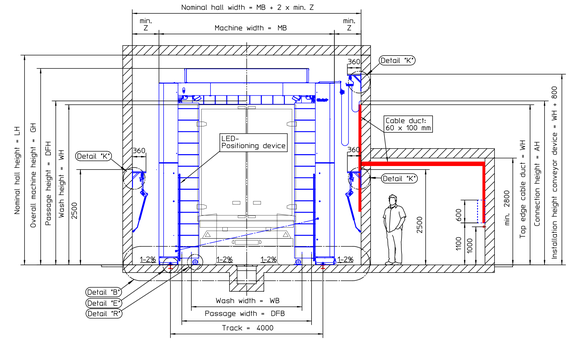
## Longitudinal section



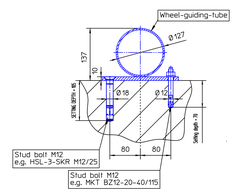

## Section A - A




## Detail "R"

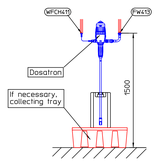
M 1 : 5

Wheel-guiding-tubes dowelled during installation with stud bolt



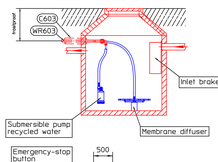

## Section S-S

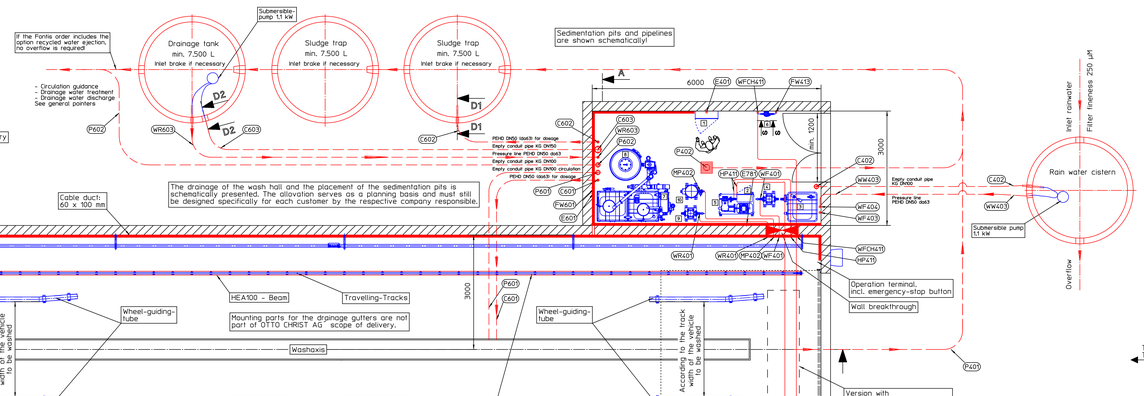
Assembly view of dosing station for chemical spray lances




## View drainage tank

schematic representation

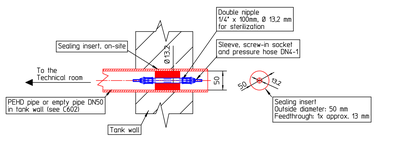



## Section "D1 - D1"

M 1 : 5

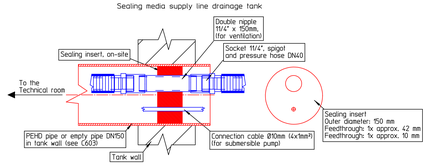
Sealing media supply line sludge trap




## Section "D2 - D2"

M 1 : 5

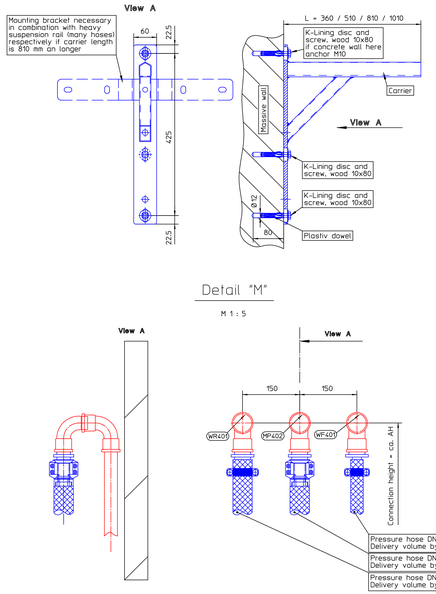
Sealing media supply line drainage tank




## Detail "K"

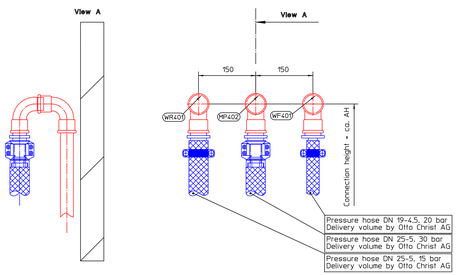
M 1 : 5

Carriers dowelled during installation with plastic dowel




## Detail "M"

M 1 : 5

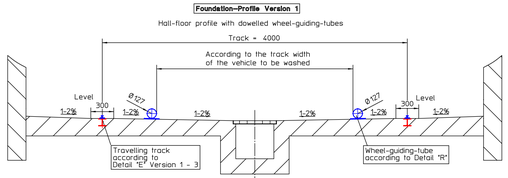



## Detail "B"

M 1 : 25

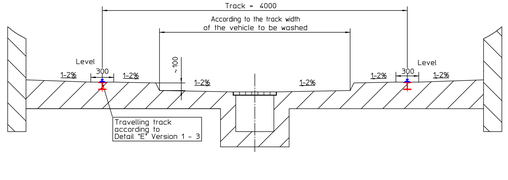
**Foundation-Profile Version 1**

Hall-floor profile with dowelled wheel-guiding-tubes




**Foundation-Profile Version 2**

Hall-floor profile with concreted tracker groove

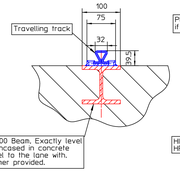



## Detail "E"

M 1 : 5

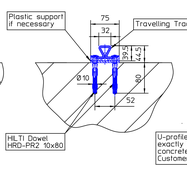
**Travelling track Installation Version 1**

Travelling tracks are welded during installation



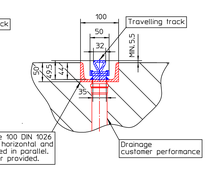

**Travelling track Installation Version 2**

Travelling tracks are dowelled during installation with HILTI-dowel



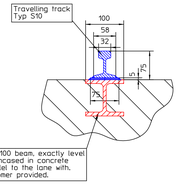

**Travelling track Installation Version 3**

Welded mounting in on-site U-profile (recessed version)



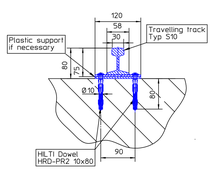

**Travelling track Installation Version 4**

Travelling tracks are welded during installation




**Travelling track Installation Version 5**

Travelling tracks are dowelled during installation with HILTI-dowel




| Technical room - legend: | |
|---|---|
| 1 | Switchgear cabinet for the water pumps & wash unit |
| 2 | Switchgear cabinet for the HP pre-wash system |
| 3 | Storage tank 1.100 L, fresh water |
| 4 | Pump 1,5 kW, fresh water - wash unit |
| 5 | HP pre-wash system 2 x 4 kW, fresh water |
| 6 | Pre-spray device manuell, chemical lances, fresh water |
| 7 | Water recycling system type FONTIS-M & 2.000 L storage tank, recycled water |
| 8 | Quartz gravel filter, FONTIS-M |
| 9 | Pump 1,5 kW, recycled water - wash unit |
| 10 | Pump 15 kW, recycled water - all-around medium pressure |

| Truck & bus wash unit C5500 NOVA (2-/3- Brush wash unit): | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pos. | Designation: | Technical data: | | | | | | | | | | | | |
| | | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 |
| WH | Wash height: | WH + 100 | | | | | | | | | | | | |
| DFH | Passage height: | WH + 100 + 50 | | | | | | | | | | | | |
| | - without roof-VITESSE: | | | | | | | | | | | | | |
| | - with roof-VITESSE: | | | | | | | | | | | | | |
| MH | Machine height: | WH + 620 | | | | | | | | | | | | |
| | - 2- Brush wash unit (Frame): | | | | | | | | | | | | | |
| GH | Overall machine height: | MH + 300 | | | | | | | | | | | | |
| | - 3- Brush wash unit without splash protection: | MH + 330 | | | | | | | | | | | | |
| | - 3- Brush wash unit with splash protection: | MH + 300 + 200 | | | | | | | | | | | | |
| | - 3- Brush wash unit without splash protection + roof-VITESSE: | MH + 330 + 200 | | | | | | | | | | | | |
| WB | Wash width: | 2900 | | | | | | | | | | | | |
| DFB | Passage width: | | | | | | | | | | | | | |
| | - cardanically bearing side brushes: | 3400 | | | | | | | | | | | | |
| | - double bearing side brushes: | 3200 | | | | | | | | | | | | |
| MB | Machine width: | | | | | | | | | | | | | |
| | - cardanically bearing side brushes: | 4600 | | | | | | | | | | | | |
| | - double bearing side brushes: | 4880 | | | | | | | | | | | | |
| MT | Machine depth: | | | | | | | | | | | | | |
| | - 2-/ 3- Brush wash unit (Frame): | 2300 | | | | | | | | | | | | |

| GT | Overall machine depth: | NOVA STRIPE | NOVA STRIPE LED | NOVA BLADE |
|---|---|---|---|---|
| | - 2- Brush wash unit: | 2500 | 2500 | 2580 |
| | - 3- Brush wash unit without splash protection: | 2700 | 2680 | 2780 |
| | - 3- Brush wash unit with splash protection: | 2840 | 2820 | 2920 |
| | - with option after rinse system rear-mounted: | + 150 | | |
| | - with option JETSTREAM (roof / side): | on request | | |
| LH | Nominal hall height: | | | |
| | - 2- Brush wash unit: | WH + 650 | | |
| | - 3- Brush wash unit: | WH + 1000 | | |
| AH | Connection height: | WH + 100 | | |
| VSE | Length for stat. pre-spray device: | ca. 1000 | | |
| Z | Safety clearance: | 500 | | |

| Legend - Christ technic: | | |
|---|---|---|
| Code-letter: | Designation: | Description: |
| E409 | Electric connection, switchgear cabinet, Commercial vehicle wash unit and supply pumps Customer provided performance Consider the general pointers! | Connection specification see separate supplementary sheet "Electrical power requirement" |
| E785 | Electric connection, switchgear cabinet, HP-Supply Station Customer provided performance Consider the general pointers! | Connection specification see separate supplementary sheet "Electrical power requirement" |
| FW403 | Fresh water connection from the network for the storage tank Flow pressure : 3,5 bar Delivered quantity: 100 l/min. Customer provided performance | Pipe: DN 25 e.g. stainless steel or PE-HD Connection: DN EN 10226-1 Rp 1" inner thread Connection height: approx. 2,0 m above floor With shutoff valve at the end |
| FW404 | Rain / well water connection for the storage tank Flow pressure : 3,5 bar Delivered quantity: 150 l/min. Customer provided performance | Pipe: DN 32 e.g. stainless steel or PE-HD Connection: DN EN 10226-1 Rp 1 1/4" inner thread Connection height: approx. 2,0 m above floor With shutoff valve at the end |
| FW413 | Fresh water connection from the mains with on-site mains separation - DN EN 1717 category 5 Flow pressure : 3,5 bar Delivered quantity: ca. 10 l/min. Customer provided performance | Pipe: DN 20 e.g. stainless steel or PE-HD Connection: DN EN 10226-1 Rp 3/4" inner thread Connection height: approx. 1,6 m above floor With shutoff valve at the end |
| WF401 | Pressure line Fresh water Flow pressure: 3,5 bar Flow pressure: 85-100 l/min. Customer provided performance | Pipe: DN 25 e.g. stainless steel or PE-HD Connection: DN EN 10226-1 Rp 1" inner thread With shutoff valve at the end |
| WR401 | Pressure line Rain water Flow pressure: 3,5 bar Flow pressure: 85-100 l/min. Customer provided performance | Pipe: DN 32 e.g. stainless steel or PE-HD Connection: DN EN 10226-1 Rp 1 1/4" inner thread With shutoff valve at the end |
| WM403 | Pressure line between the rain / well water tank and the storage tank, max. 25 m Approx. 2% inclination toward the installations room, Rain / well water Flow pressure: 3,5 bar Flow: 250 l/min. Under floor, Customer provided performance | Pipe: PE-HD DIN 8074 75,0 x 6,8 SDR11 PN12,5 Connection: DIN EN 10226-1 Rp 2" inner thread, on both sides Connection height: according to the planning documents |
| HP419 | Pressure line, high-pressure, high-pressure pre-wash equipment, manual, Fresh water Flow pressure: 120 bar Flow: 23 l/min. Surface-mounting / under floor Performance of Otto Christ AG | Surface-mounting: HP pipe, DN 10 e.g. stainless steel, DN EN 10297-2 DIN 17456: 12,0 x 1,0 seamless Connection: HP hose, DN 10 in the customer provided empty conduit, KG pipe: DN 19534 DN 110 |
| WFCH419 | Pressure line, cleaning solution, high-pressure pre-wash equipment, manual Fresh water and pre-detergent Flow pressure: 3,5 bar Flow: 10-15 l/min. Surface-mounting / under floor Performance of Otto Christ AG | Surface-mounting: Pipe, DN 13 e.g. stainless steel, DIN EN 10088, 15,0 x 1,0 Under floor: HP hose, DN 10 in the customer provided empty conduit, KG pipe: DN 19534 DN 110 |
| HP402 | Pressure line, medium pressure, recycled water Flow pressure: 20 bar Flow pressure: 230 l/min. Customer provided performance | Pipe: DN 32 e.g. stainless steel or PE-HD Connection: DN EN 10226-1 Rp 1 1/4" inner thread Connection height: according to the planning documents With shutoff valve at the end |
| P409 | Sewage outlet, discharge in the filtering tank Under floor Customer provided performance | KG pipe: DN 19534 DN 200 The sealings shall be oil and petrol resistant (e.g. NBR sealings or similar). |
| P402 | Sewage outlet, floor, installations room Under floor Customer provided performance | KG pipe: DN 19534 DN 110 The sealings shall be oil and petrol resistant (e.g. NBR sealings or similar). |
| C409 | Empty conduit installed with pulling wire Bends with 30° max. Under floor Customer provided performance | KG pipe: DN 19534 DN 50 Profrusion above floor = DN The sealings shall be oil and petrol resistant (e.g. NBR sealings or similar). |
| C402 | Empty conduit installed with pulling wire Bends with 30° max. Under floor Customer provided performance | KG pipe: DN 19534 DN 110 Profrusion above floor = DN The sealings shall be oil and petrol resistant (e.g. NBR sealings or similar). |

| Legend - FONTIS: | | |
|---|---|---|
| Code-letter: | Designation: | Description: |
| E609 | Electric connection, switchgear cabinet, - FONTIS Customer provided performance Consider the general pointers! | Connection specification, see supplementary sheet "Power requirement". |
| C601 | Empty conduit installed with pulling wire Bends with 30° max. Customer provided performance | Pipe: PE-HD DIN 8074, 63,0 x 5,8 SDR11 PN12,5 Connection: DIN EN 10226-1 |
| C602 | Empty conduit installed with pulling wire Bends with 30° max. Under floor Customer provided performance | Pipe: PE-HD DIN 8074, 63,0 x 5,8 SDR11 PN12,5 Connection: DIN EN 10226-1 |
| C603 | Empty conduit installed with pulling wire Bends with 30° max. Under floor Customer provided performance | KG pipe: DN 19534 DN 150 Profrusion above floor = DN The sealings shall be oil and petrol resistant (e.g. NBR sealings or similar). |
| FW609 | Fresh water connection from the network for the storage tank FONTIS Flow pressure : 1,5-3,5 bar Delivered quantity: ca. 100 l/min. Customer provided performance | Pipe: DN 50 e.g. stainless steel or PE-HD Connection: DN EN 10226-1 Rp 1" inner thread Connection height: approx. 2,0 m above floor, With shutoff valve at the end |
| WR603 | Pressure line from discharge tank to the filter Recycled water Under floor Piping customer provided performance | Pipe: PE-HD DIN 8074 63,0 x 5,8 SDR11 PN12,5 Connection: DIN EN 10226-1 Rp 2" inner thread on both sides. |
| P601 | Backwash pipe / water ejection FONTIS Under floor Customer provided performance | KG pipe: DN 19534 DN 160 The sealings shall be oil and petrol resistant (e.g. NBR sealings or similar). |
| P602 | Backwash pipe / water ejection FONTIS Under floor Customer provided performance | KG pipe: DN 19534 DN 160 The sealings shall be oil and petrol resistant (e.g. NBR sealings or similar). |

| Installation instruction (EMC): |
|---|
| In the electrical installation / assembly of the wash unit the best possible separation of conductors with mains voltage (Power cables) on low voltage (Data cables) must be ensured. |

| Description: | | |
|---|---|---|
| Lines and pipes: | | Red: Customer provided / on site |
| Above ground: | Continuous line ——— | Blue: Scope of delivery of Fa. OTTO CHRIST AG |
| Underground: | Interrupted line - - - | Black: Customer provided foundations and buildings |

GENERAL POINTERS:

- THIS PLAN IS NOT BASED ON A SPECIFIC PROJECT AND IS NOT AN IMPLEMENTATION. IT IS PURELY FOR THE USAGE OF THE ARCHITECT / PLANER.
- THE OTTO CHRIST AG IS TO BE NOTIFIED OF DEVIATIONS IN CUSTOMER PERFORMANCE.
- MEASUREMENTS ARE GIVEN IN MM.
- MEASUREMENTS PERTAIN TO THE INDUSTRIALIZED BUILDING.
- THE WASH HALL AND PLANT-ROOM CONTAINER MUST BE ILLUMINATED ACCORDING TO LOCAL REGULATIONS.
- THE WASH HALL AND PLANT-ROOM CONTAINER MUST BE SUFFICIENTLY AERATED AND DEAERATED.
- THE WASH UNIT AND WASH UNIT EQUIPMENT MUST BE SITUATED SO THAT ITS PROTECTED FROM FROST.
- NONSKID FLOORS MUST BE LAID IN THE WASH HALL AND WASH BAYS.
- ALL LINES AND CONNECTIONS DESCRIBED IN THE LEGEND MUST BE PROVIDED BY THE CUSTOMER AND MUST BE INSTALLED ALSO ACCORDING TO LOCAL REGULATIONS.
- DRAINAGE PIPES, CONDUIT PIPES AND LINES IN THE INSIDE AND OUTSIDE AREAS MUST BE LAID SO THAT THEY ARE PROTECTED FROM FROST.
- WASH HALLS IN LIGHT CONSTRUCTION REQUIRE A CROSS BEAM OVER THE ENTIRE HALL LENGTH FOR THE MOUNTING OF A CABLE CONVEYOR DEVICE IE. CATERPILLAR CHAIN.
- A SAFETY DISTANCE OF MIN. 500 MM MUST BE PROVIDED FOR PERSONS IN WORKING AND TRAFFIC AREAS OF THE WASH UNIT BETWEEN THE WASH UNIT AND FIX PARTS OF THE SURROUNDING UP TO A HEIGHT OF 2000 MM OVER THE CORRESPONDING FLOOR-LEVEL. SHOULD THIS SAFETY DISTANCE NOT BE OBSERVED, THEN AUTOMATIC SAFETY DEVICES ARE REQUIRED.
- IN THE WORKING AREA OF THE WASH UNIT ANORMAL HALL LENGTH, WIDTH AND HEIGTH NO DISTURBING OBJECTS MAY BE INSTALLED BY THE CUSTOMER.
- IN REGARDS TO SELF-SERVICE VEHICLE WASH UNITS, THE SERVICE TERMINAL MUST BE VISIBLE, EASILY AND SAFELY ACCESSIBLE AND AT LEAST 1 METER AWAY OR SPATIALLY SEPARATED FROM THE MOVEMENT AREA OF THE WASH UNIT.
- AFTER INSTALLATION OF THE CHRIST WASH UNIT THE EMPTY CONDUITS MUST BE CLOSED BY THE CUSTOMER.
- TECHNICAL CHANGES ARE RESERVED.

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- USAGE OF A WATER RECYCLING UNIT, EXECUTION OF THE SEPARATION UNIT AND DRAINAGE WATER INLET ACCORDING TO LOCAL DRAINAGE WATER TREATMENT REGULATIONS AND REQUIRES AUTHORIZATION.
- CIRCUITRY AND WASTE WATER TREATMENT FROM AUTOMATIC CAR WASHING FOR LEADING IN THE PUBLIC CANALIZATION ACCORDING TO APPENDIX 49 OF THE WASTE WATER ORDINANCE (ABWV).
EITHER OVER SLUDGE TRAP 2 x 7500 LTR. (ARRANGEMENT IN ROW OR PARALLEL) DRAINAGE TANK 7500 LTR. (WITHOUT DISCHARGE/DRAINAGE) AND CHRIST FONTS-M WITH RECYCLED WATER EJECTION RESPECTIVELY
OVER SLUDGE TRAP 2 x 10000 LTR. (ARRANGEMENT IN ROW OR PARALLEL)
DRAINAGE TANK 10000 LTR. (WITHOUT DISCHARGE/DRAINAGE) AND CHRIST FONTS-L WITH RECYCLED WATER EJECTION (GENERAL TECHNICAL APPROVAL Z-83.3-10) OR OVER SLUDGE TRAP 2 x 7500 LTR.
DRAINAGE TANK 7500 LTR. AND CLASS I COALESCENCE PRECIPITATOR RESPECTIVELY OVER SLUDGE TRAP 2 x 10000 LTR. DRAINAGE TANK 10000 LTR. AND CLASS I COALESCENCE PRECIPITATOR ACCORDING TO DIN EN 858-1, DIN EN 858-2 AND DIN 1999-100.

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- SAFETY MEASURES FOR THE CUSTOMER PROVIDED ELECTRIC LINES ARE TO BE TAKEN AS REQUIRED BY THE LOCAL PUBLIC POWER SUPPLY COMPANY. SHOULD A RESIDUAL CURRENT PROTECTION DEVICE BE USED, ONLY TYPE B (UNIVERSAL AC/DC SENSITIVE) IS AUTHORISED FOR THE ELECTRIC LINE ET. IT IS RECOMMENDED THAT SEPARATE SAFETY MEASURES BE TAKEN BY THE CUSTOMER FOR THE WASH TECHNIQUE.
- THE CUSTOMER PROVIDED ELECTRICAL LINES ARE TO BE CONNECTED BY A CUSTOMER APPOINTED ELECTRICAL TECHNICIAN ACCORDING TO THE CONNECTION RULES & REGULATIONS OF THE LOCAL POWER SUPPLY COMPANY TO THE CHRIST SWITCHGEAR.


OTTO CHRIST AG
WASH SYSTEMS
97447 WIESENTHEID
POSTFACH 1254 TELEFON (09383)997-0


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Scale: 1 : 50 (1 : 25/1 : 5) — 841 x 1250

Standard installation plan
Installation situation hall

C5500 NOVA
Wash height 4.200 mm

| | Datum | Name |
|---|---|---|
| Bearb. | 11.08.2022 | R. Braabar |
| Gepr. | 11.08.2022 | Ch. Baier |
| Norm | | |

8410077-EN — REV 00 — Sheet 1 (1)

Zust. | Änderung | Datum | Name

Date: c:_archiv\8411\8410077-EN