

 SMULDERS	EWP M3 External work platform – FAT documentation	25220 Hollandse Kust Zuid
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Index

1. FAT mechanical
 - Final release note
 - Punch list
2. FAT electrical
 - Final release note
 - Punch list
3. FAT coating
 - Final release note
 - Punch list
4. Overview NCR's and TQ's

Mechanical Release Note EWP Rev 2 #15

Description	M3
Status	Submitted
Assignee	Ben Herygers (BHE)
Date	24-06-2021

Final Checklist Mechanical

Sub-contractor: Smulders
Contractor/ client: SIF
Employer: Vattenfall

Location	SPB Hoboken
HSSE plan is read	☒
Inspection With Clients:	Yes
Client name(s):	Pim Olthof, Andrzej Prokowski
Verifying documentation available: Signed release notes, fabrication documentation	Yes

1 General

1.1 EWP is clean (Housekeeping) and free of damages	OK
1.2 Annulus closer plates are correctly installed	OK
1.3 Doubler plates (6x) are in place	OK
1.4 Lifting padeyes (4x) are correctly installed with 6 x M36 fixation bolts on each and free of damages	OK
1.5 Handrails are correctly installed and free of damages	OK
1.6 Kick plates are present, correctly installed and free of damages	OK
1.7 Stopper blocks (6x) are correctly installed(retracted) according to requirements, secured with 4 x M48 bolts incl. grp cover plates (3 x type 1 / 3 x type 2) and free of damages.	OK
1.8 Neoprene strips on stopper blocks (back side of the vertical section) are in place. One (1) strip on each block	OK

- 1.9 Davit crane is correctly installed, well oriented and free of damages

OK
- 1.10 Signboards (6x) are correctly installed and free of damages.

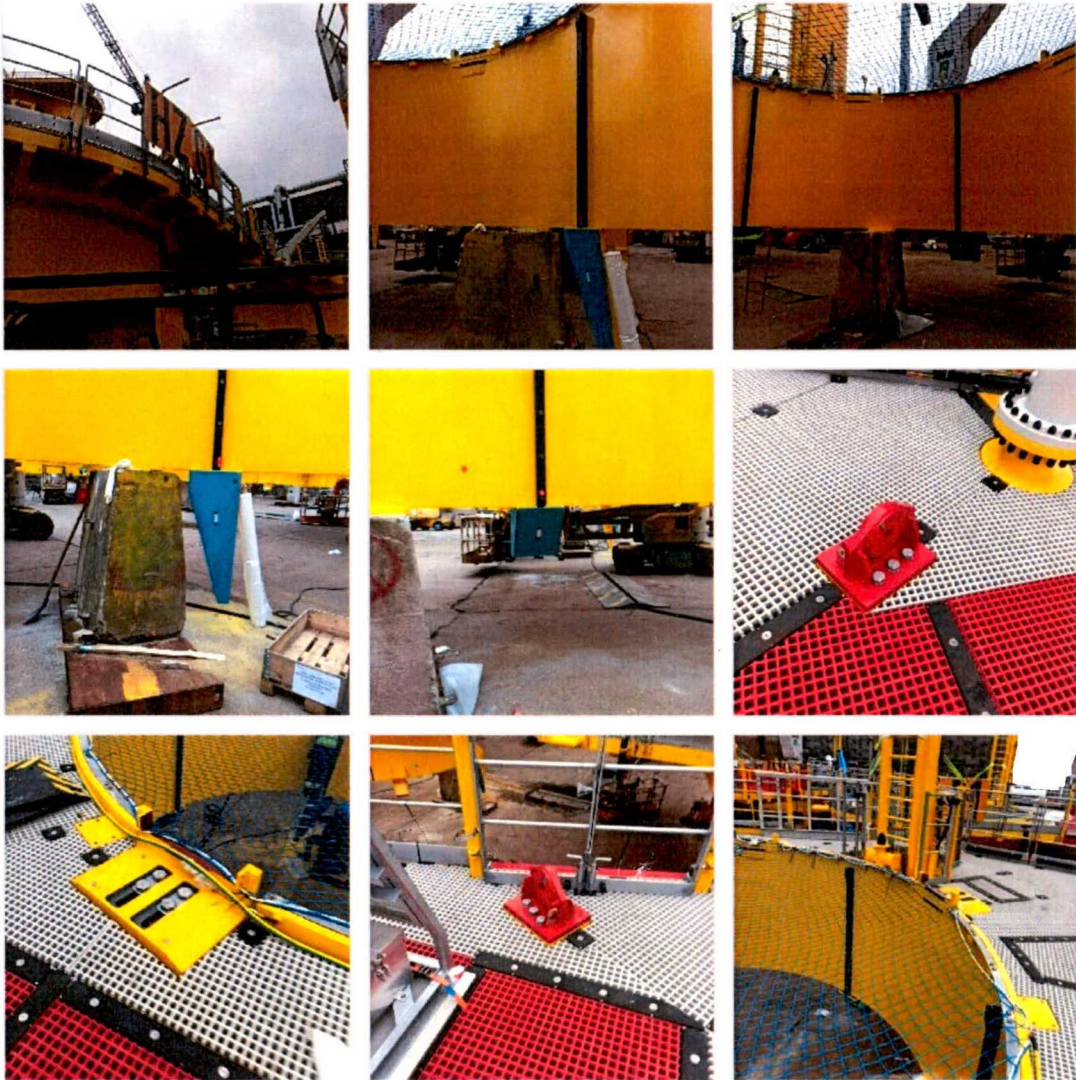
OK
- 1.11 D-glide material is correctly installed on short finger guides (4x)

OK
- 1.12 D-glide material is correctly installed on long finger guides (2x)

OK

Remarks:

Attachments:



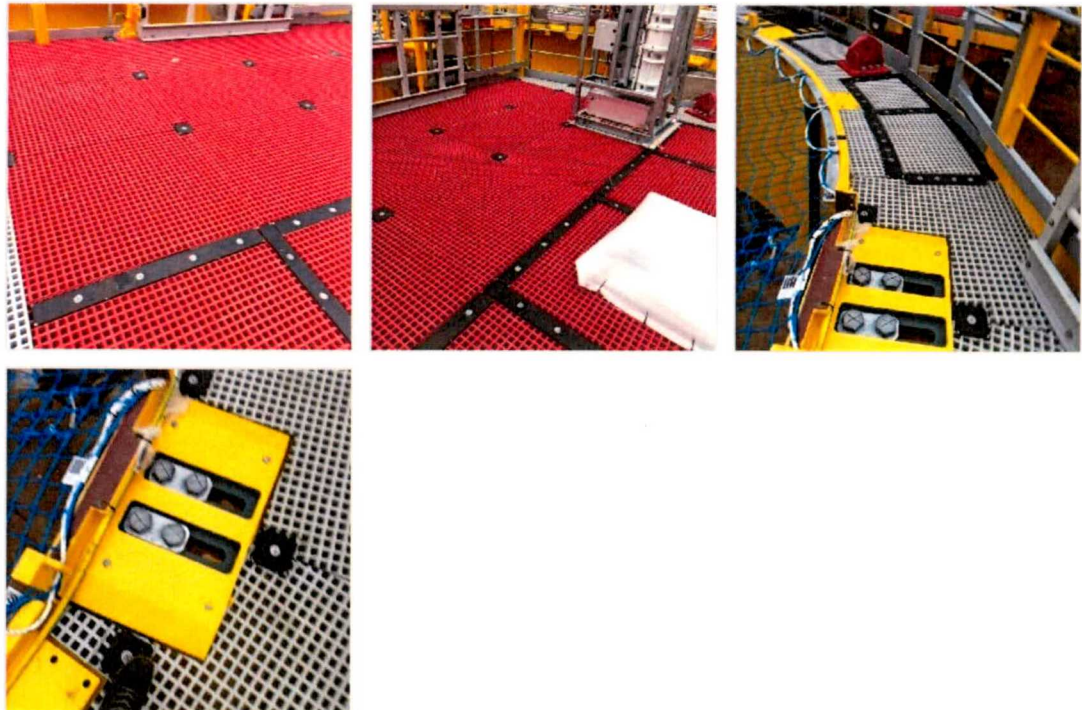


2 Gratings

- | | |
|--|----|
| 2.1 Grating are correctly installed incl. grating clamps and free of damages | OK |
| 2.2 Grating clamps are correctly fastened | OK |
| 2.3 Gratings have color areas according to requirements | OK |
| 2.4 Anti-slip stickers are present on grating clamps | OK |
| 2.5 Removable grating is in place (2.5 Above BL fall arrest bar) | OK |
| 2.6 Wave-up runner plates are correctly installed and free of damages | OK |

Remarks:

Attachments:



3 Swing gate at access ladder

3.1 Hook-on points (2x) are present on posts OK

3.2 Hinges (2x) are correctly installed with locker pin and cotter pin OK

3.3 Hinges (2x) eyebolts are correctly installed with double nut on each side OK

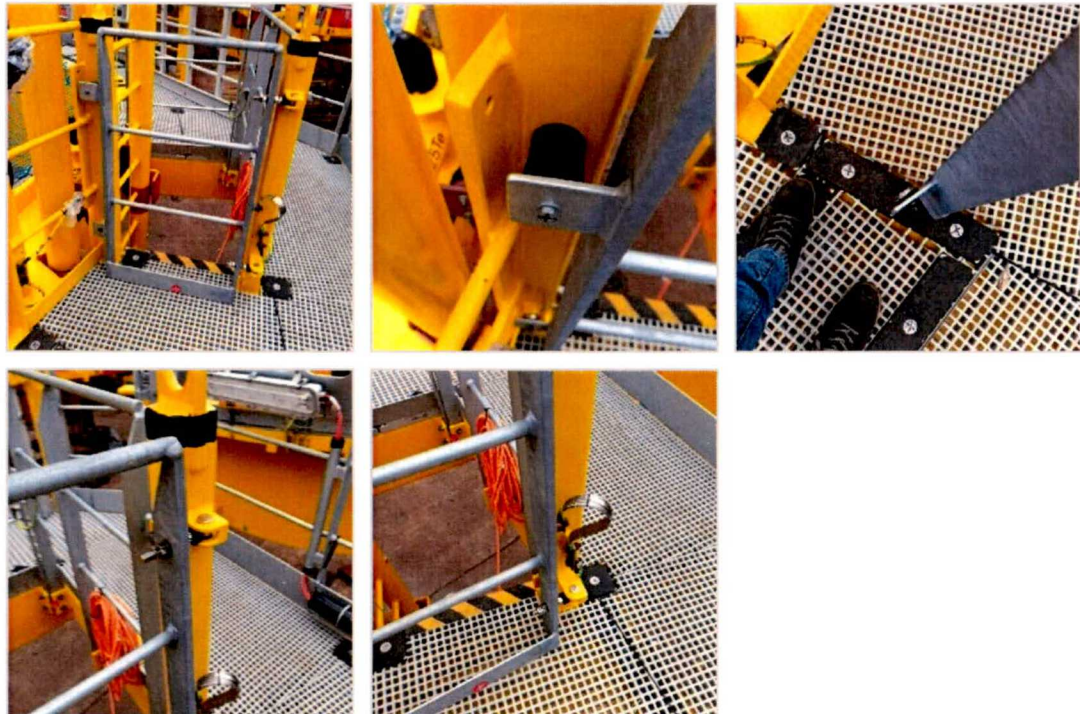
3.4 Rubber Stoppers (2x) are in place OK

3.5 Kick-plate is in place OK

3.6 Magnet correctly installed OK

Remarks:

Attachments:



4 Sliding gate at North-West

4.1 Hook-on points (2x) are present on posts OK

4.2 Sliding gate is correctly installed and free of damages OK

4.3 Guide rail is properly installed and free from sharp edges. OK

4.4 Sliding gate can be properly opened and closed OK

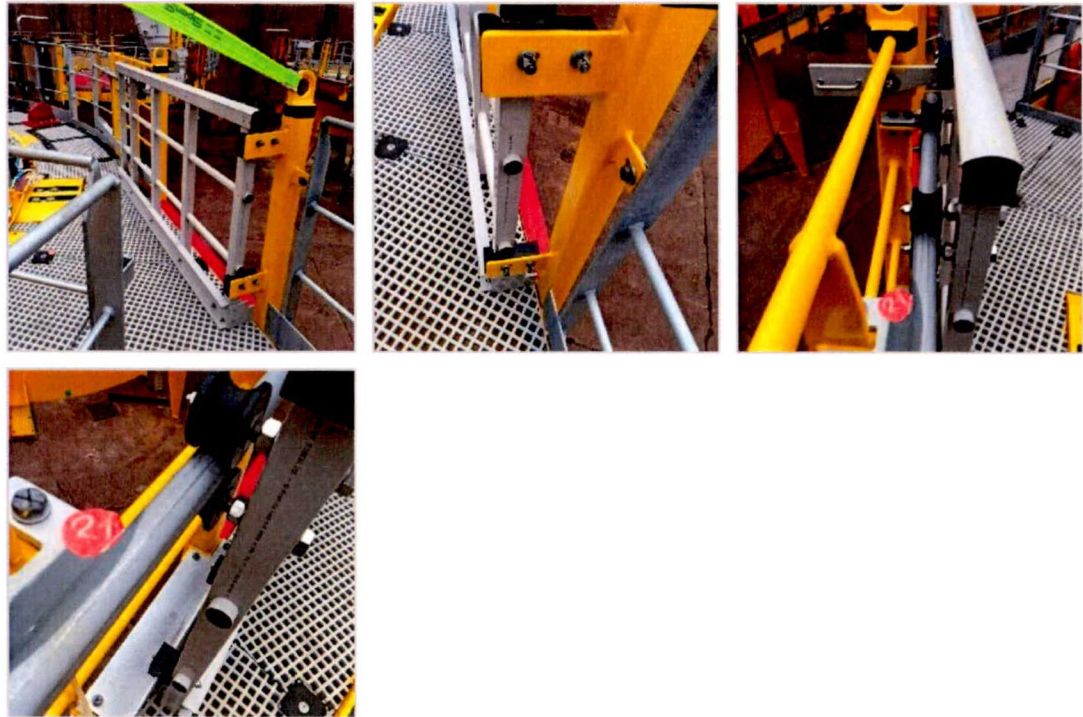
4.5 Handle plate is correctly bolted to post OK

4.6 Holder block is correctly installed

OK

Remarks:

Attachments:



5 Double Swing gate West

5.1 Latch is correctly installed incl. locking pin, locking pin wires (2x), locking clip and fixation M10 bolt with HDPE shoulder/insulation washer and free of damages

OK

5.2 3mm thk neoprene protection on underside of the latch is in place

OK

5.3 Hook-on points (2x) are present on posts and free of damages

OK

5.4 100 x 5Thk neoprene is present on swing gate handrail

5.5 Hinges (4x) are correctly installed with locker pin and cotter pin

OK

5.6 Hinges (4x) eyebolts are correctly installed with double nut on each side

OK

5.7 Rubber Stoppers (2x) are in place

OK

5.8 Two (2) locking pins (bottom lock) are correctly installed incl. spring pin

OK

5.9 Chequered plate is in place

OK

Remarks:

Attachments:



6 Double Swing gate South

6.1 Latch is correctly installed incl. locking pin, locking pin wires (2x), locking clip and fixation M10 bolt with HDPE shoulder/insulation washer and free of damages OK

6.2 3 thk neoprene protection on underside of the latch is in place OK

6.3 Hook-on points (2x) are present on posts and free of damages OK

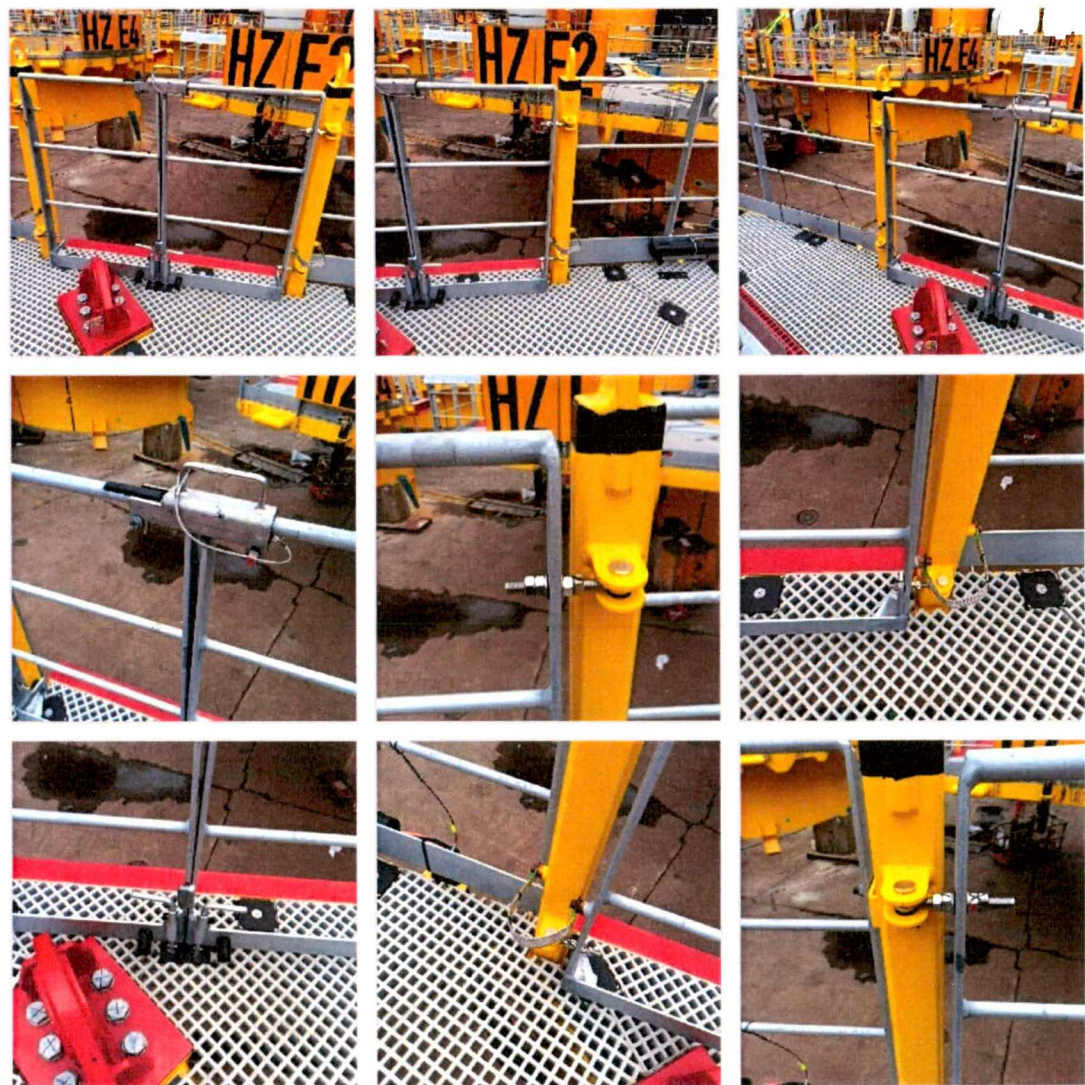
6.4 100 x 5Thk neoprene is present on swing gate handrail OK

6.5 Hinges (4x) are correctly installed with locker pin and cotter pin OK

- | | |
|---|----|
| 6.6 Hinges (4x) eyebolts are correctly installed with double nut on each side | OK |
| 6.7 Rubber Stoppers (2x) are in place | OK |
| 6.8 Two (2) locking pins (bottom lock) are correctly installed incl. spring pin | OK |
| 6.9 Chequered plate is in place | OK |

Remarks:

Attachments:



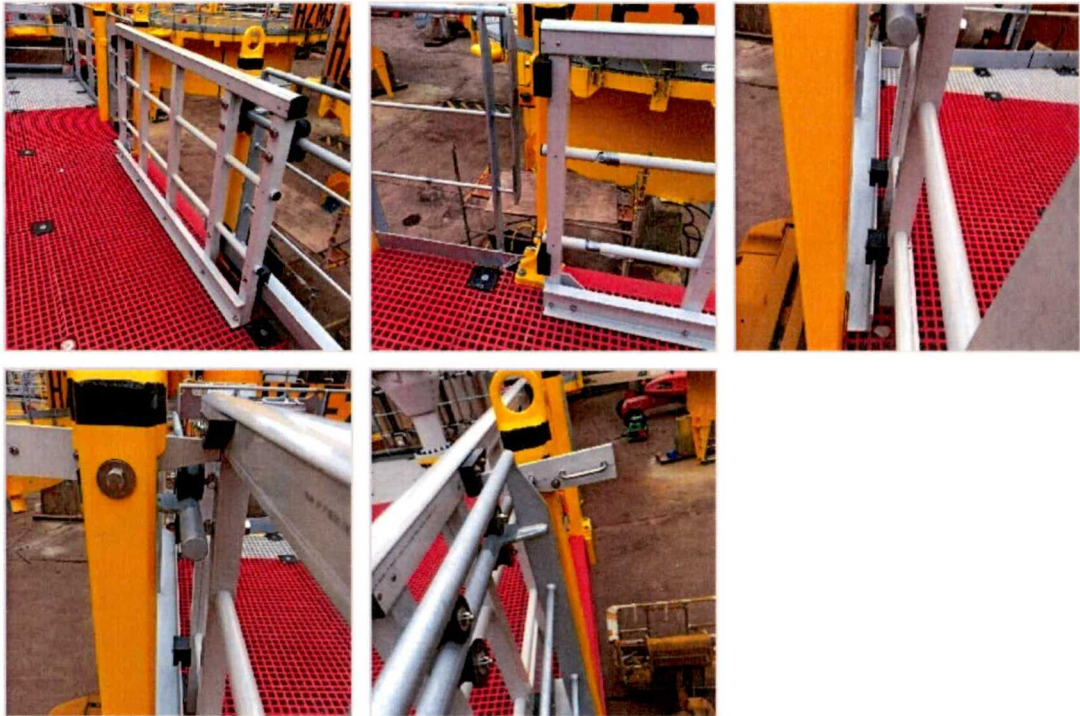
7 Sliding gate East

- | | |
|---|----|
| 7.1 Hook-on points (2x) are present on posts | OK |
| 7.2 Sliding gate is correctly installed | OK |
| 7.3 Guide rail is correctly installed and free from sharp edges | OK |

- | | |
|---|----|
| 7.4 Sliding gate slides can be properly opened and closed | OK |
| 7.5 Handle plate is correctly bolted to post | OK |
| 7.6 Holder block is correctly installed | OK |

Remarks:

Attachments:

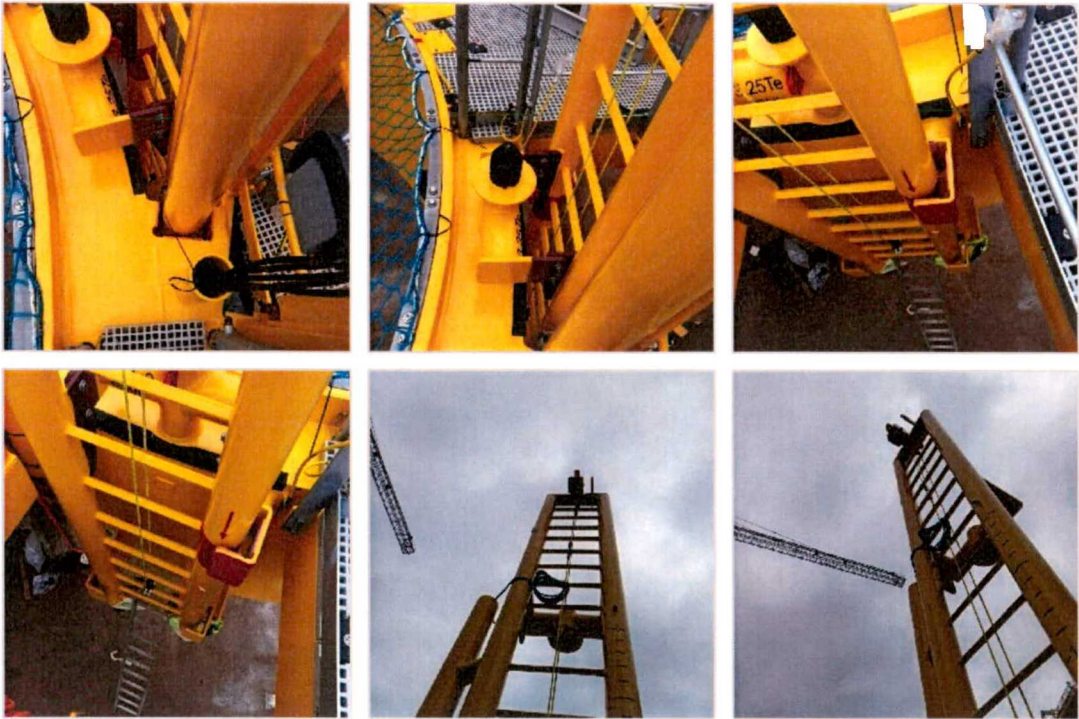


8 Access ladder

- | | |
|--|----|
| 8.1 Railings at Access ladder location are correctly installed and free of damages | OK |
| 8.2 Access ladder is correctly installed & fastened on transport position | OK |
| 8.3 Fall arrest system incl. SRL type 1, 15 m loop tether line and rung protector is pre-installed | OK |
| 8.4 5 Thk D-glide plates (3x) are correctly installed (glued) on the ladder installation guides (3x) | OK |
| 8.5 6 thk D-glide is correctly installed (glued) on upper ladder extra guide | OK |
| 8.6 6 Thk D-Glide strips (4x) are correctly installed (bolted) on upper ladder stabbing guides (2x) | OK |

Remarks:

Attachments:



9 Fall arrest BL

TYPE 2 - 25m

9.1 SRL is mounted on fall arrest bar under EWP removeable gratings OK

9.2 Fixed tether line with messenger wire is secured to EWP gratings OK

Remarks:

Attachments:



Punchlist / NCR applicable

Punch list attached? Yes

NCR applicable? N/A

10 Closing

Parties acknowledge that these secondary steel structures (foundation appurtenances) have been manufactured/fabricated in accordance with the Subcontract

Yes

Remarks:

Attachments:

Signature Smulders

Signed by Ben Herygers
on 24 June, 2021 09:39
from Ben Herygers's device

Ben Herygers



25.06.2021

Reviewed/Witnessed/Approved by Client

Reviewed/Witnessed/Approved by Employer

OU had
UF
25.06.21

Punchlist mechanical

Gecreëerd: 25-06-2021
Creator: Giele Wuyts (@GWU)
Status:
Data van gecreëerde taken: 03-02-2021 - 25-06-2021

Ontvangers

ben.herygers@smulders.com

Beschrijving

M3

Timeframe : The punches will be solved before load out or 3 days before the HAT

Categorie

WP 12 - M3 (M3)

Hashtags

#client



Handwritten signature
25-06-21

* Remark : TQ4186 stil pending (wooden box)

* Remark : needs some chamber on the Dg slide bedder

Large handwritten signature

● **#1231 - Fly rust on the post**

Verified | Ilchan Chanko | EWP 12 - M3

Tags: #client

Ge creeerd 19-0 6-2 021 | Completed 21-0 6-2 021 | Verified 25

-0 6-2 021 **Taakberichten (tijd in CEST)**

Ben Herygers

Photo 1

Ben Herygers

Fly rust on the post @ilchan_chanko #client @TouchUp

Ilchan Chanko

Photo 2

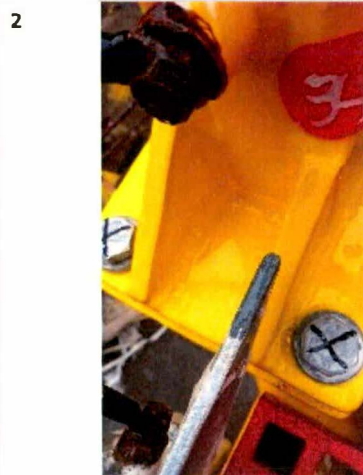
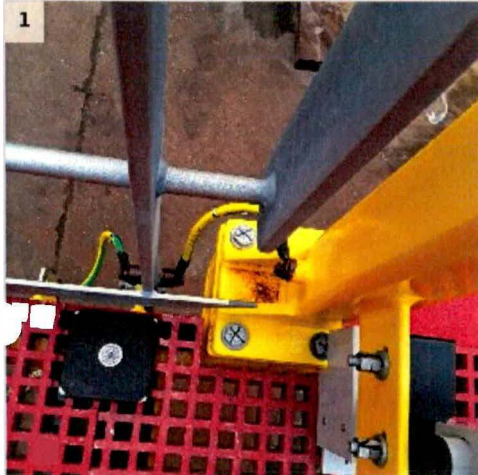


19 jun 09:54

19 jun 09:55

21 jun 14:55

Foto's



● **#1230 - Needs some coating**

Verified | Ilchan Chanko | EWP 12 - M3

Tags: #client

Ge creeerd 19-0 6-2021 | Completed 22 06 2021 | Verified 25

-0 6-2 021 **Taakberichten (tijd in CEST)**

Ben Herygers

Photo 1

Ben Herygers

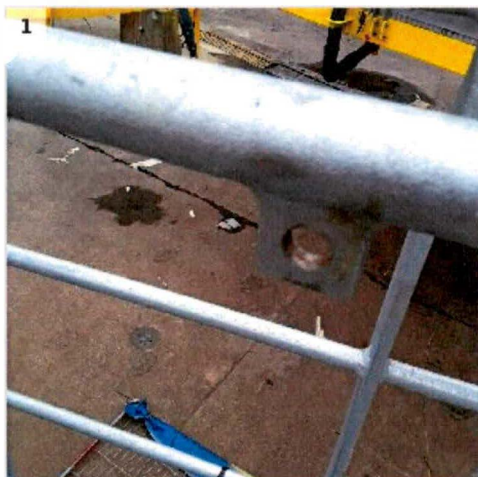
Needs some coating @TouchUp @ilchan_chanko #client



19 jun 09:53

19 jun 09:53

Foto's



● #1371 - Cable damaged on the wire

Verified | Kevin Kemps | EWP 12 - M3

Tags: #client

Gecreeerd 24-06-2021 | Completed 24-06-2021 | Verified 25-06-2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	24 jun 13:33
Ben Herygers	Cable damaged on the wire @Mechanical @kevin_kemps #client	24 jun 13:33
Marcin Witkowski	Photo 2	24 jun 14:37
Marcin Witkowski	Photo 3	24 jun 14:37

Foto's



● #1233 - Cut more the plate

Verified | Kevin Kemps | EWP 12 - M3

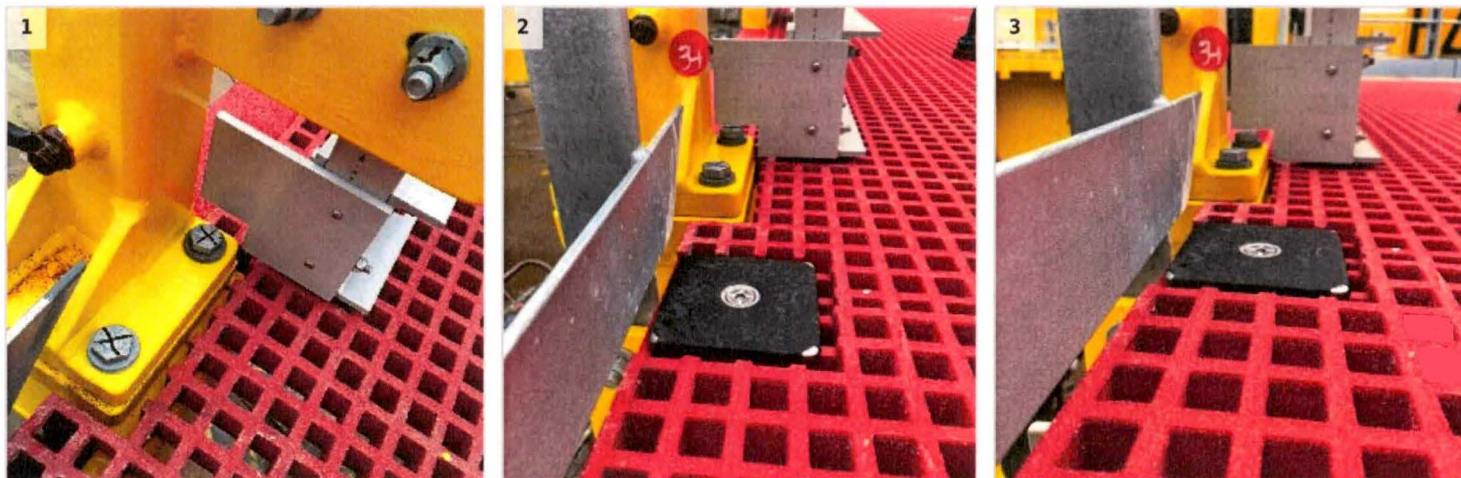
Tags: #client

Gecreeerd 19-06-2021 | Completed 22-06-2021 | Verified 25-06-2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:56
Ben Herygers	Cut more the plate @Mechanical @kevin_kemps #client	19 jun 09:56
Marcin Witkowski	Photo 2	22 jun 13:38
Marcin Witkowski	Photo 3	22 jun 13:38

Foto's



● #1370 - Paint missing and put some glue on the rubber

Verified | Kevin Kemps | EWP 12 - M 3

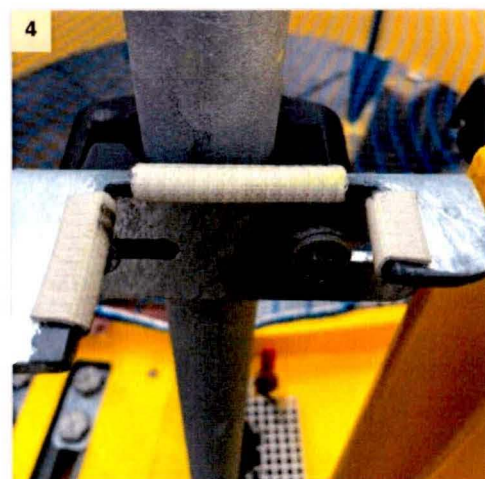
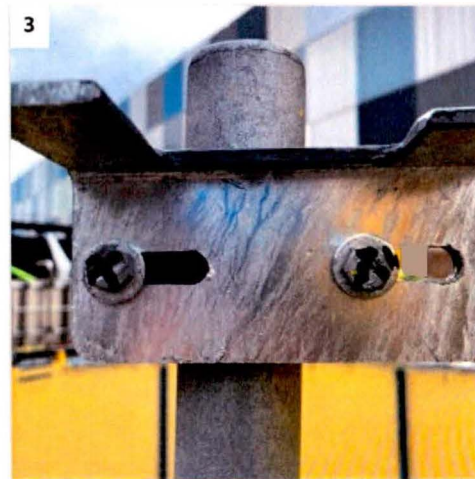
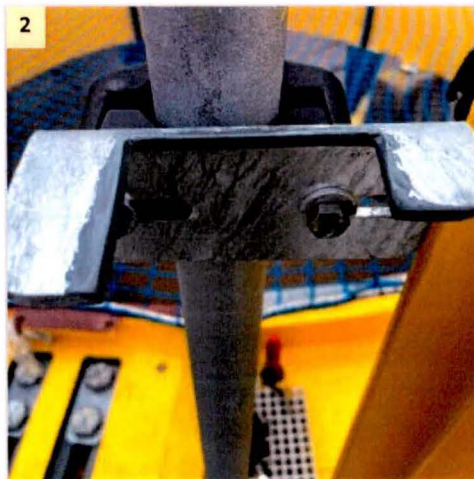
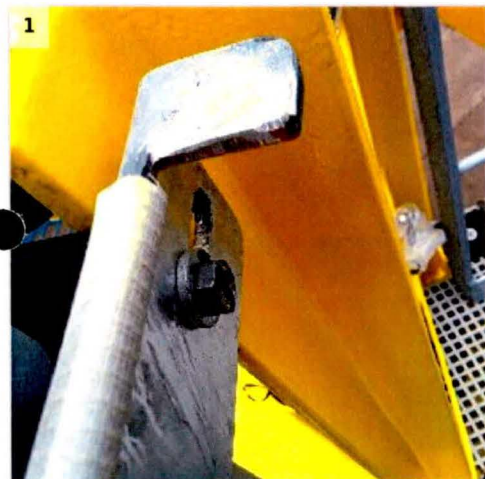
Tags: #client

Gecreeerd 24 06 2021 | Completed 24 06 2021 | Verified 25 06 2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	24 jun 13:31
Ben Herygers	Paint missing and put some glue on the rubber @Mechanical @kevin_kemps @ilchan_chanko #client	24 jun 13:32
Marcin Witkowski	Photo 2	24 jun 16:01
Marcin Witkowski	Photo 3	24 jun 16:01
Marcin Witkowski	Photo 4	24 jun 16:03

Foto's



● #1217 - Pipe not straight

Verified | Kevin Kemps | EWP 12 - M3

Tags: #client

Gecreeerd 19 06 2021 | Completed 23 06 2021 | Verified 25 06 2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:19
Ben Herygers	Photo 2	19 jun 09:19

Ben Herygers	Photo 3	19 jun 09:19
Ben Herygers	Pipe not straight @Mechanical @kevin_kemps #client	19 jun 09:19
Marcin Witkowski	Photo 4	23 jun 16:02

Foto's



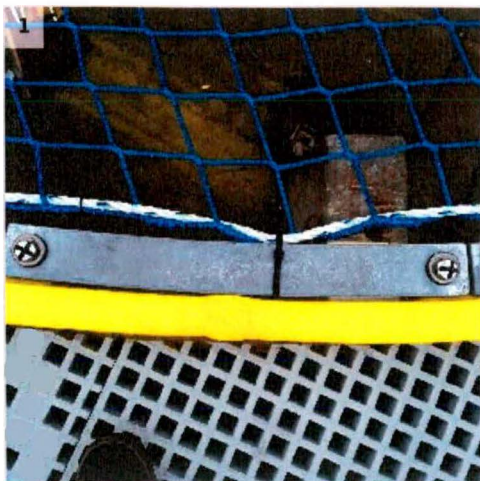
#1221 - Bracket touches the plate

Verified | Kevin Kemps | EWP 12 - M3
Tags: #client
Gecreëerd 19 06-2 021 | Completed 23 06 2021 | Verified 25-0 6
2021 Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:37
Ben Herygers	Bracket touches the plate @Mechanical @kevin_kemps #client	19 jun 09:37
Marcin Witkowski	Photo 2	23 jun 14:00



Foto's



#1226 - Wrong weld used. Stainless steel??

Verified | Kevin Kamps | EWP 12 - M3

Tags: #client

gemaakt 19-06-2021 | Completed 24-06-2021 | Verified 24-06-2021

[Signature]

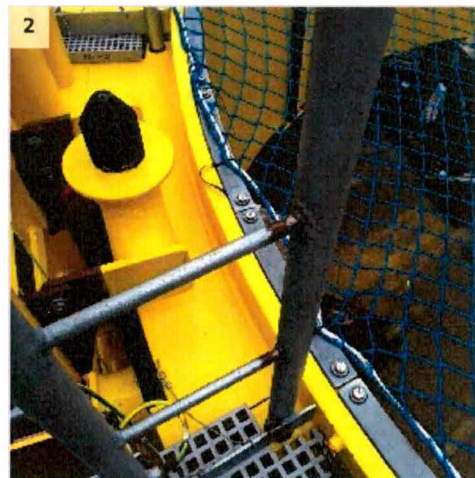
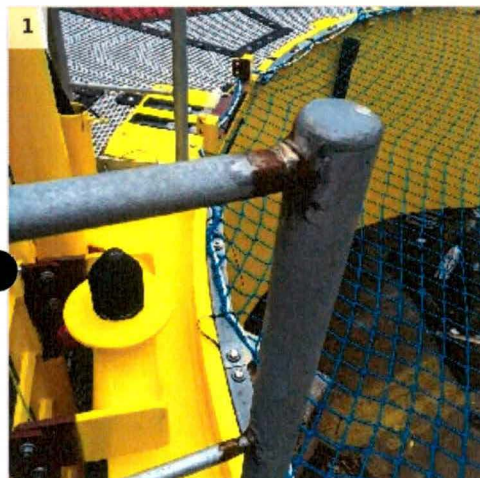
[Signature]

[Signature]

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:45
Ben Herygers	Photo 2	19 jun 09:45
Ben Herygers	Wrong weld used. Stainless steel?? @Mechanical @kevin_kamps #client	19 jun 09:46
Kevin Kamps	weld white kryo 1 according WPS (welder Pedro)	21 jun 13:50
Marcin Witkowski	Info Kevin NCR while being made	23 jun 09:55

Foto's



#1229 - Needs to be adjusted

Verified | Kevin Kamps | EWP 12 - M3

Tags: #client

Gemaakt 19-06-2021 | Completed 22-06-2021 | Verified 25-06-2021

Taakberichten (tijd in CEST)

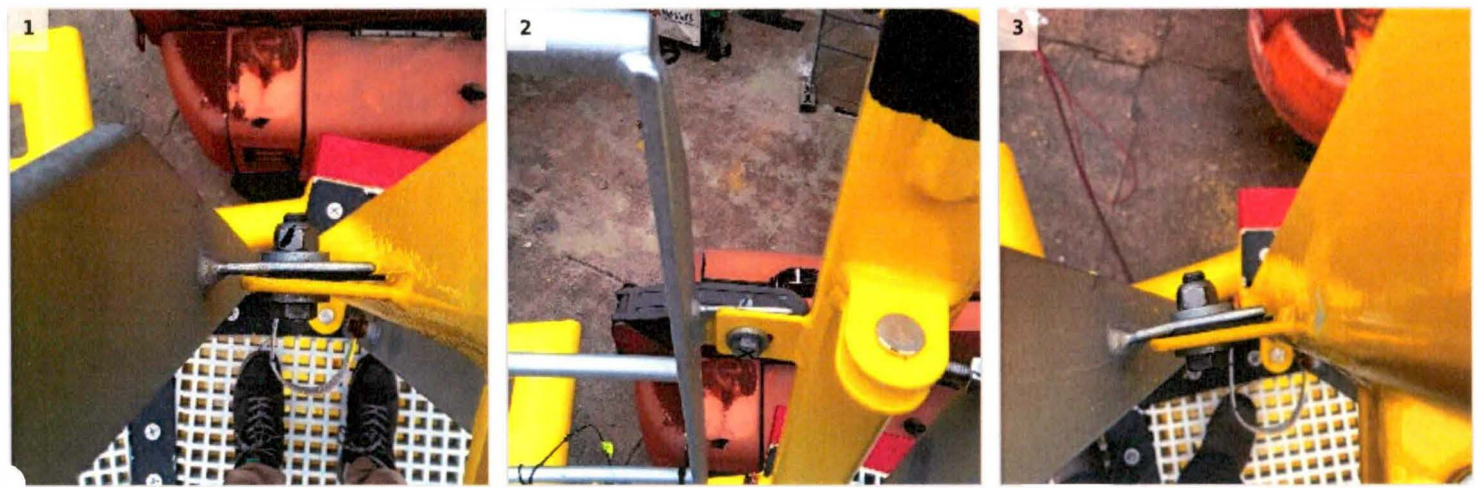
[Signature]

[Signature]

[Signature]

Ben Herygers	Photo 1	19 jun 09:52
Ben Herygers	Photo 2	19 jun 09:52
Ben Herygers	Needs to be adjusted @Mechanical @kevin_kemps #client	19 jun 09:52
Marcin Witkowski	Photo 3	22 jun 13:49

Foto's



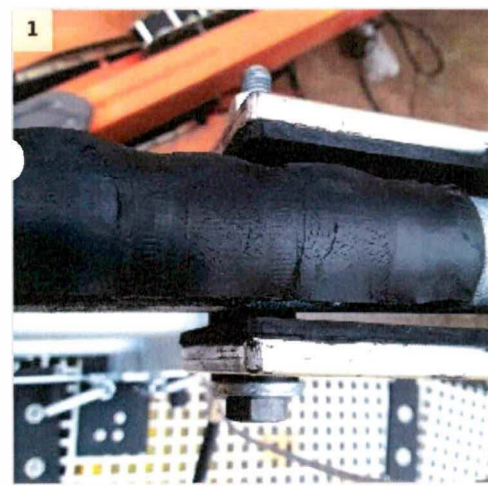
#1228 - Rubber already burst

Verified | Kevin Kempes | EWP 12 - M3
 Tags: #client
 Gecreeerd 19 06 2021 | Completed 24 06 2021 | Verified 24 06 2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 juni 09:51
Ben Herygers	Rubber already burst @Mechanical @kevin_kemps #client	19 jun 09:51
Kevin Kempes	3 mm installad according drawing	21 jun 13:52

Foto's



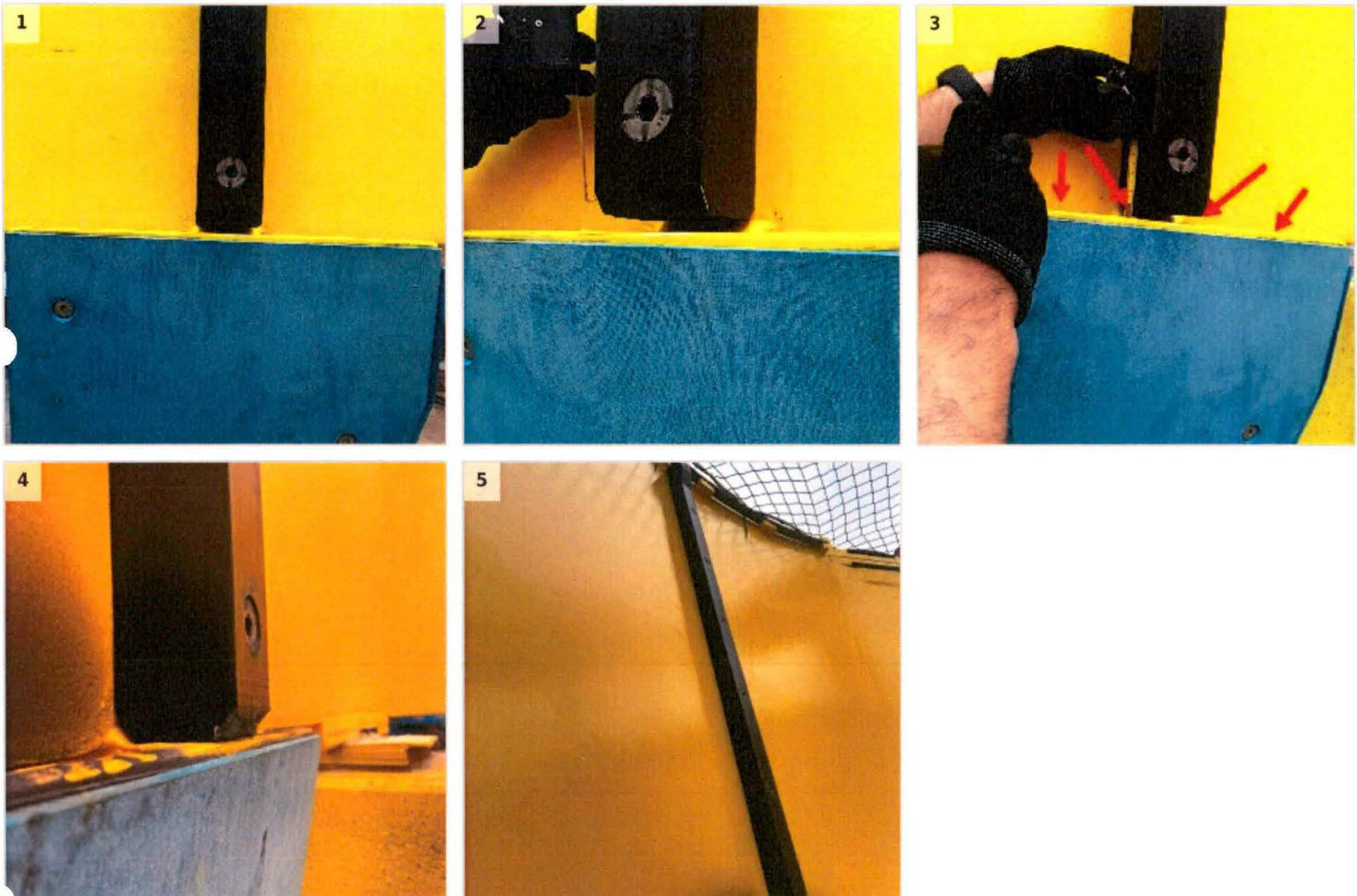
#1218 - To big gap on the finger guide

Verified | Kevin Kempes | EWP 12 - M3
 Tags: #client
 Gecreeerd 19-06-2021 | Completed 24-06-2021 | Verified 25 06 2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:29
Ben Herygers	Photo 2	19 jun 09:29
Ben Herygers	Photo 3	19 jun 09:29
Ben Herygers	To big gap on the finger guide @Mechanical @kevin_kemps #client	19 jun 09:30
Marcin Witkowski	Photo 4	24 jun 07:55
Marcin Witkowski	Photo 5	24 jun 07:55

Foto's



● #1225 - Lockpins don't fit well

Verified | Kevin Kemps | EWP 12 - M3

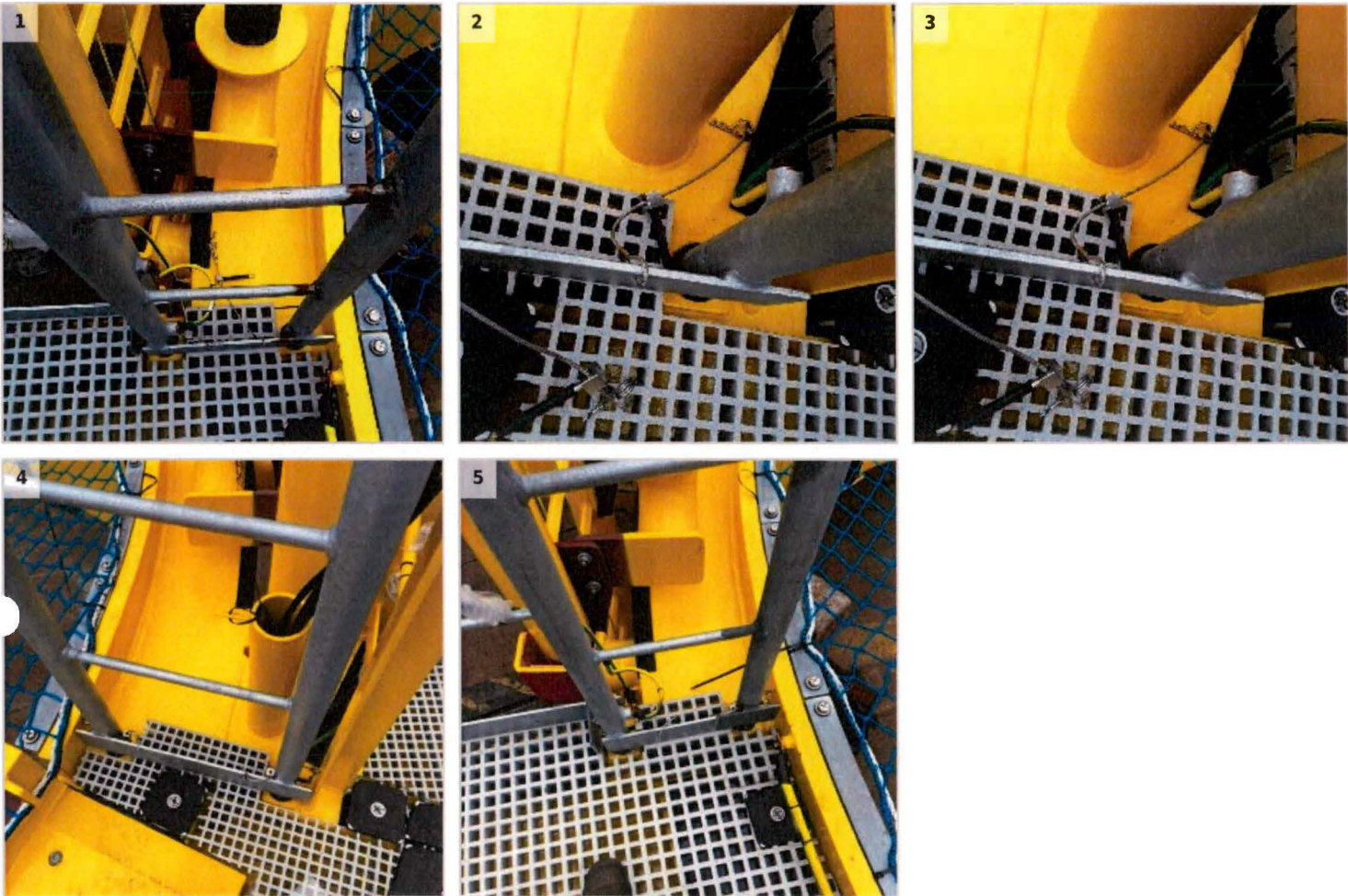
Tags: #client

Gecreëerd 19 06 2021 | Completed 23 06 2021 | Verified 25 06-2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:44
Ben Herygers	Photo 2	19 jun 09:44
Ben Herygers	Photo 3	19 jun 09:44
Ben Herygers	Lockpins don't fit well @Mechanical @kevin_kemps #client	19 jun 09:45
Marcin Witkowski	Photo 4	23 jun 15:58
Marcin Witkowski	Photo 5	23 jun 15:58

Foto's



● #1224 - Nuts are missing

Verified | Kevin Kemps | EWP 12 - M3

Tags: #client

Gecreëerd 19-06-2021 | Completed 22-06-2021 | Verified 25-06-2021

Taakberichten (tijd in CEST)

Jen Herygers

Photo 1

Jen Herygers

Nuts are missing @Mechanical @kevin_kemps #client

Marcin Witkowski

Photo 2

19 jun 09:42

19 jun 09:43

22 jun 13:36

Foto's



#1220 - Put new bolt. Start already rusty

Verified | Kevin Kemps | EWP 12 - M3

Tags: #client

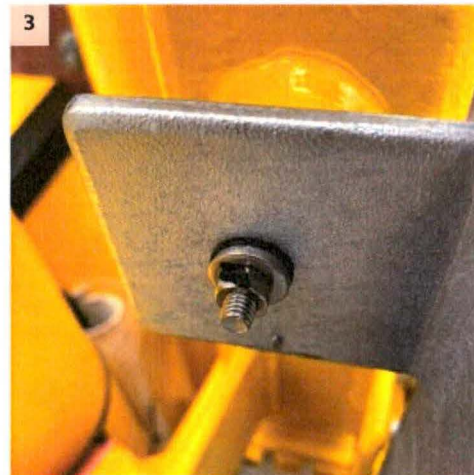
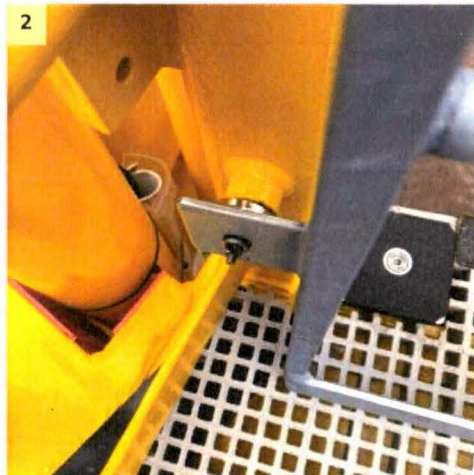
Gecreeërd 19-06-2021 | Completed 23-06-2021 | Verified 25-06-2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:36
Ben Herygers	Put new bolt. Start already rusty @Mechanical @kevin_kemps #client	19 jun 09:37
Marcin Witkowski	Photo 2	23 jun 14:00
Marcin Witkowski	Photo 3	23 jun 14:01

[Handwritten signatures]

Foto's



#1227 - Bolts are too short

Verified | Kevin Kemps | EWP 12 - M3

Tags: #client

Gecreeërd 19-06-2021 | Completed 22-06-2021 | Verified 25-06-2021

Taakberichten (tijd in CEST)

Ben Herygers	Photo 1	19 jun 09:49
--------------	---------	--------------

[Handwritten signatures]

Ben Herygers Bolts are too short @Mechanical @kevin_kemps #client
Marcin Witkowski Photo 2
Marcin Witkowski Photo 3

19 jun 09:49
22 jun 13: 35
22 jun 13: 35

Foto's



● #1222 - Missing plastic cap

Verified | Kevin Kempes | EWP 12 - M 3

Tags: #client

Gecreëerd 19-06-2021 | Completed 22-06 2021 | Verified 25-06-2021

Taakberichten (tijd in CEST)

Ben Herygers Photo 1
Ben Herygers Missing plastic cap @Mechanical @kevin_kemps #client

19 jun 09:38
19 jun 09:38

Foto's



● #1223 - Needs black ones for UV protection

Verified | Kevin Kempes | EWP 12 - M 3

Tags: #client

Gecreëerd 19-06 2021 | Completed 23 06-2021 | Verified 25 06 2021

Taakberichten (tijd in CEST)

Ben Herygers

Photo 1

19 jun 09:41

Ben Herygers

Needs black ones for UV protection @Mechanical @kevin_kemps #client

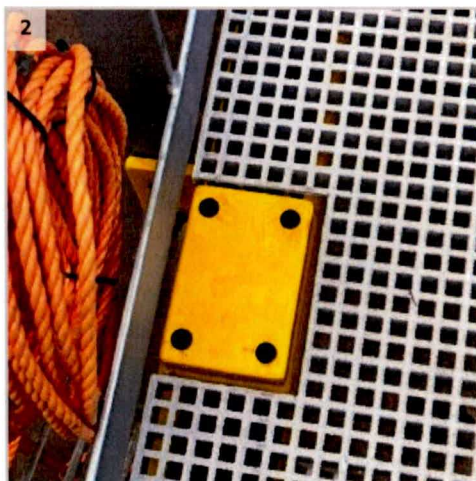
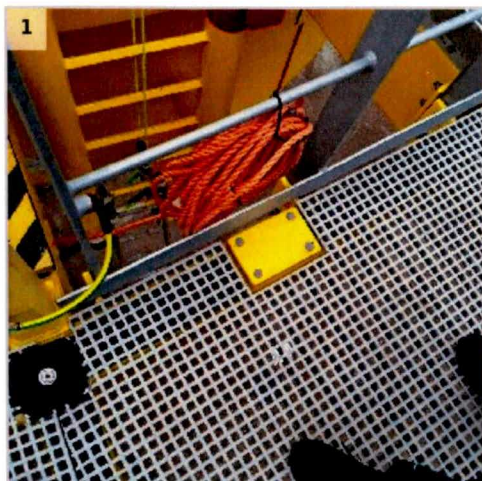
19 jun 09:41

Marcin Witkowski

Photo 2

23 jun 14:00

Foto's



25220-GEN-RE05-XXX_04 - EWP - Electrical Release Note Rev 4 #9

Description	EWP HZ-M3
Status	Completed
Assignee	Frans Van der Wee (FVA)
Date	23-06-2021

Final Checklist Electrical - External Working Platform

Location	SPB Hoboken
HSSE plan is read	☒
Inspection with Client:	Yes
Client Name(s):	Andrzej Prokowski Pim Olthof
Latest revisions drawings are checked before start of inspection:	☒

1. General

Remarks:

1.1 Functional test has been performed, signed and found acceptable

Doc Nr. 25220-GEN-PR01_02_ElectricalPackage-Sat
Doc Nr. 25220-GEN-RE00-(xxx)_02_ElectricalPackage-SatReport-EWP

Status OK

Remarks:

Attachments:

2. External Work Platform

Remarks:

Tag plate / ID-board



2.1 Earthing & bonding cables

Doc. Nr. 25220-ENB-PR00_02_EarthingBonding-ITP

Earthing & bonding cables correctly installed & adequately supported, free of damages, scotchkote applied on connections where needed

Check shrink sleeve correctly applied and correct identification colour (Black for normal G/Y cable & G/Y for braided earth cables).

Check cable termination lugs are correctly crimped and correct size according to cable cross section.

Cables are provided with ID labels

All those checks are verified and recorded in the SAT reports:

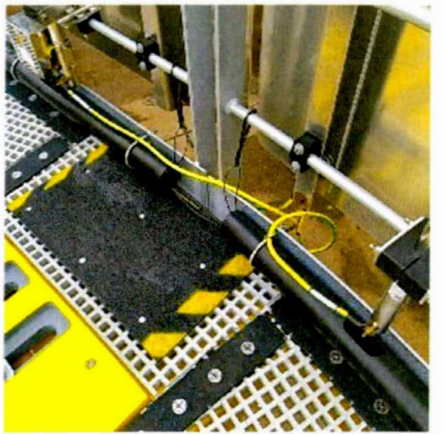
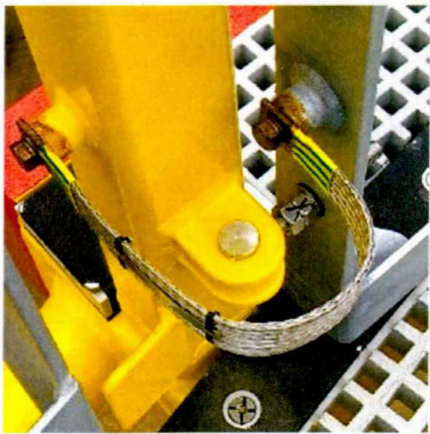
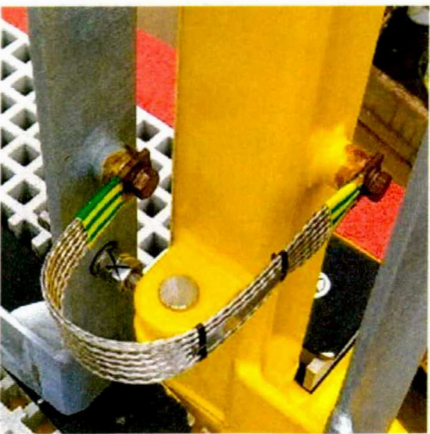
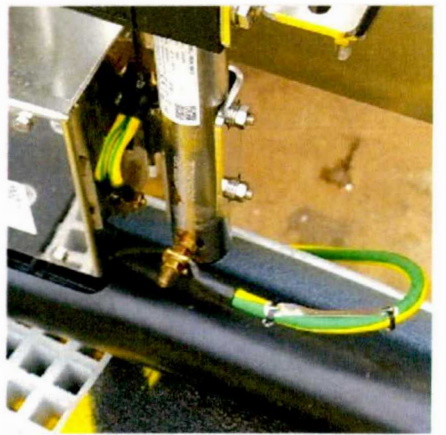
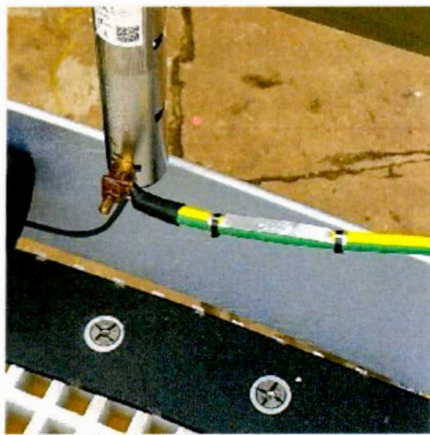
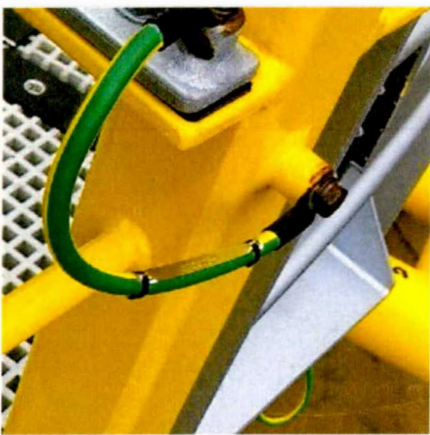
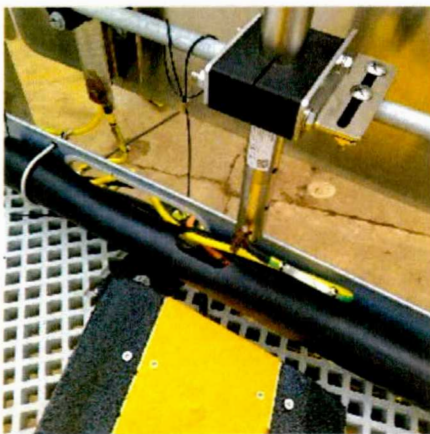
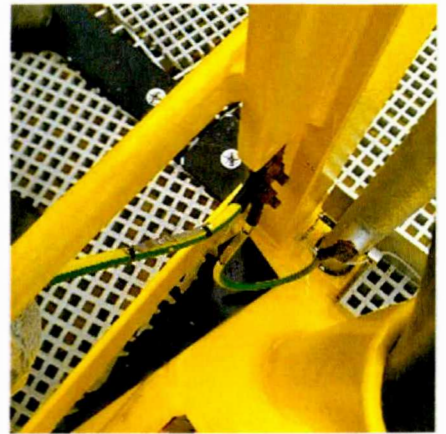
Doc.Nr. 25220-ENB-RE02-(xxx)_01_EarthingBondingVisualInspection-SatReport-EWP

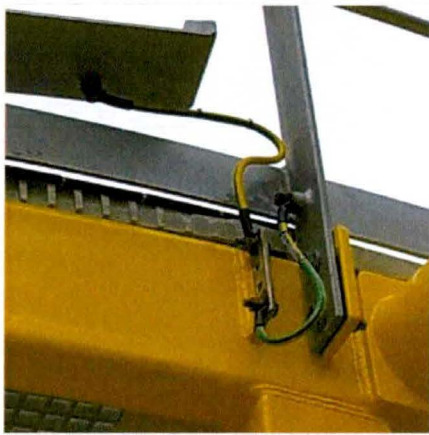
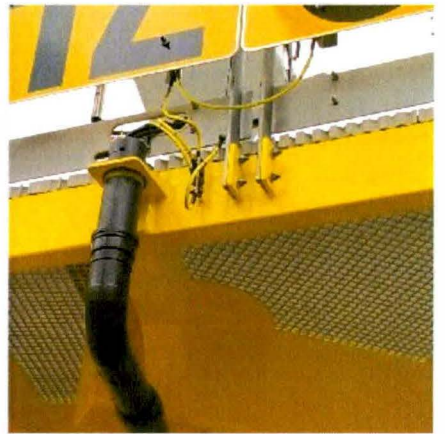
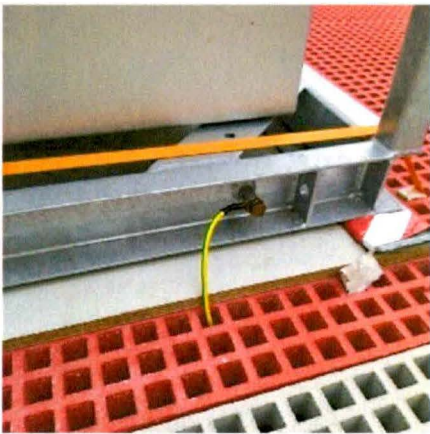
Status OK

Remarks:

Attachments:





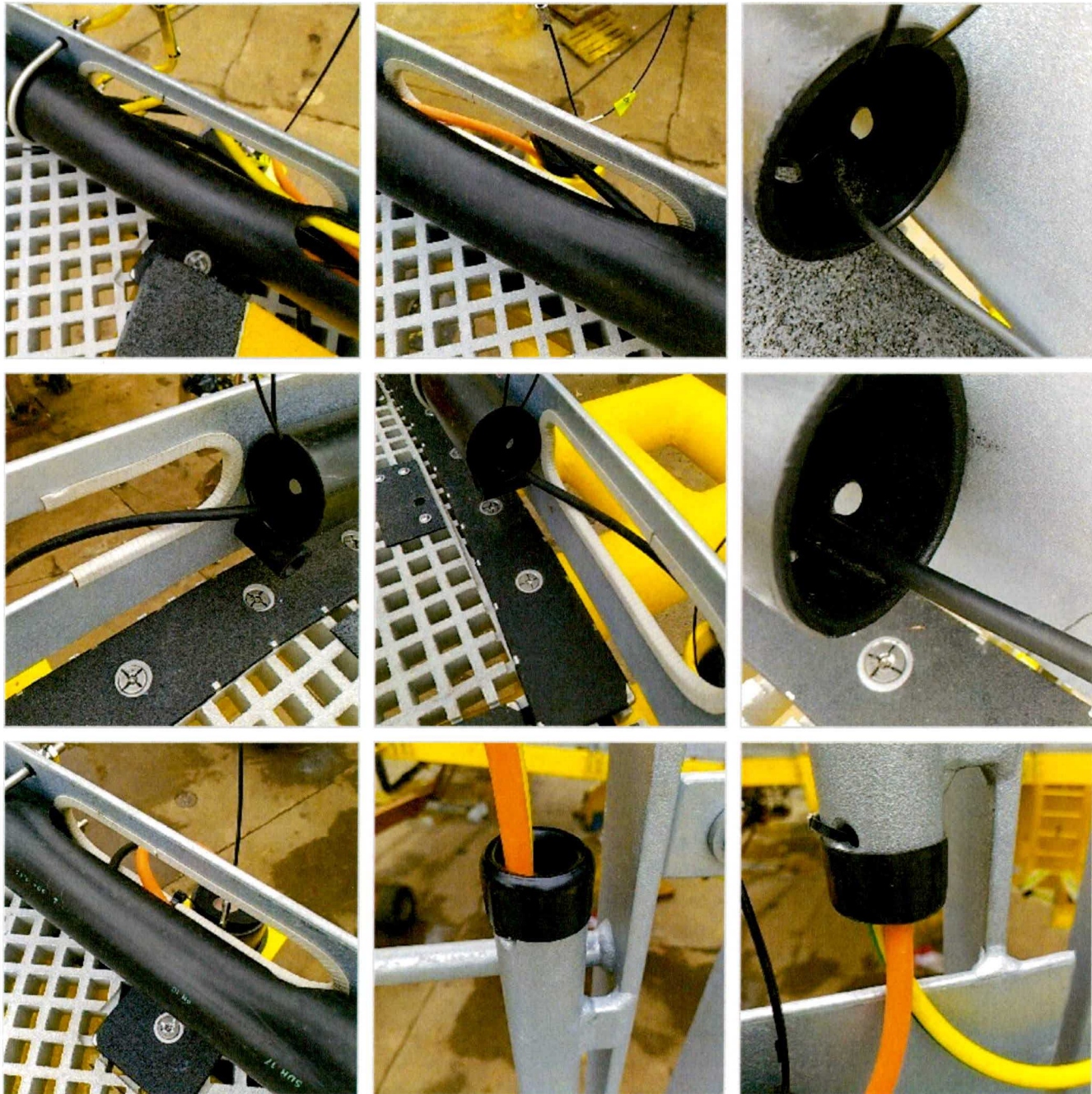


2.2 The path of cables are free of sharp edges

Status OK

Remarks:

Attachments:



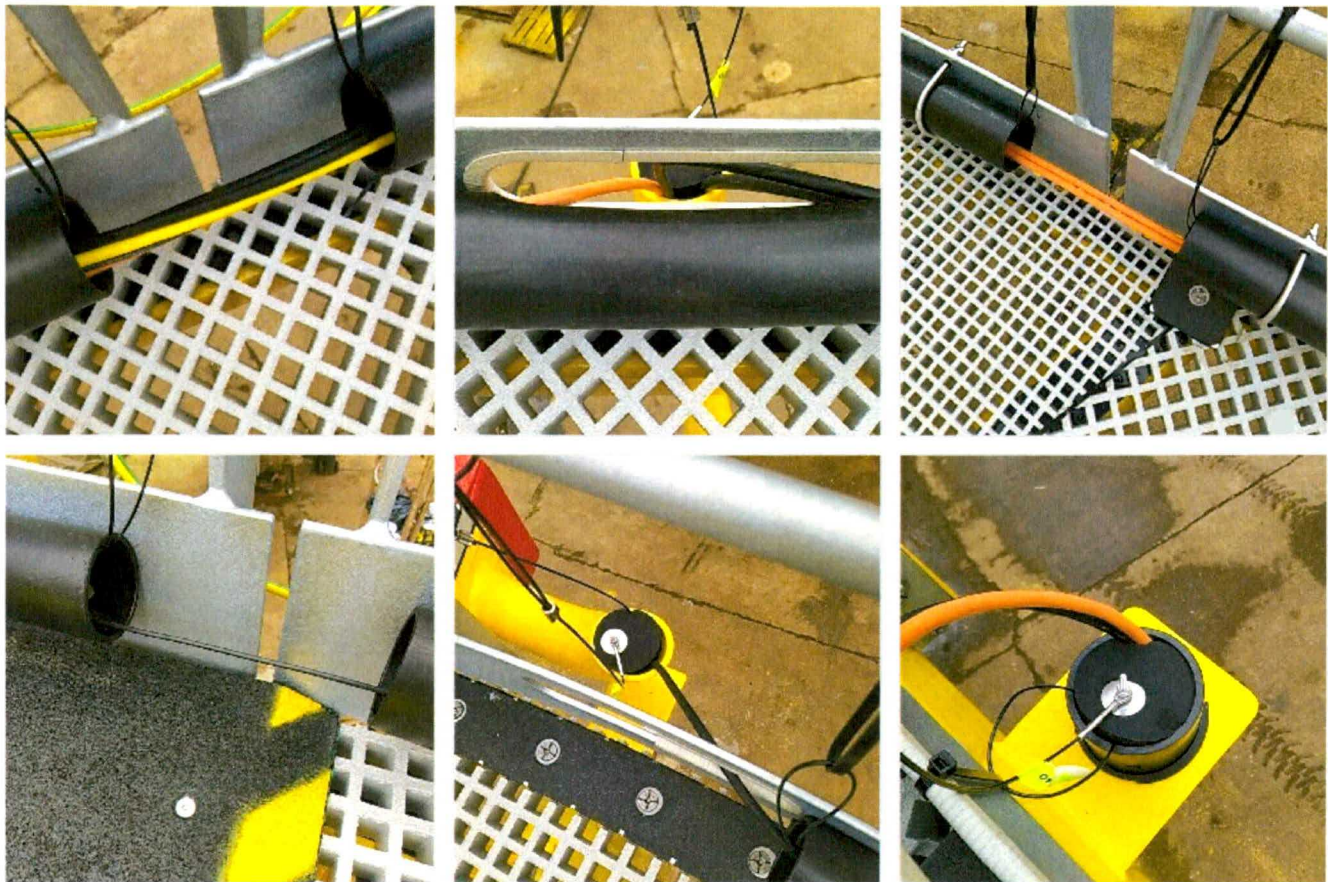
2.3 Power and signal cables

Doc. Nr. 25220-CBL-PR00_01_LvCables-ITP
Correct selection of cable glands and routing / dressing of cables correct and free of damages. Cables are provided with ID labels
All cable tests and visual inspection of the cable are recorded in the following protocols:
25220-CBL-RE05-(xxx)_01_LvCablesInsulationTest-SatReport-EWP
25220-CBL-RE08-(xxx)_01_LvCablesContinuityTest-SatReport-EWP

Status OK

Remarks:

Attachments:



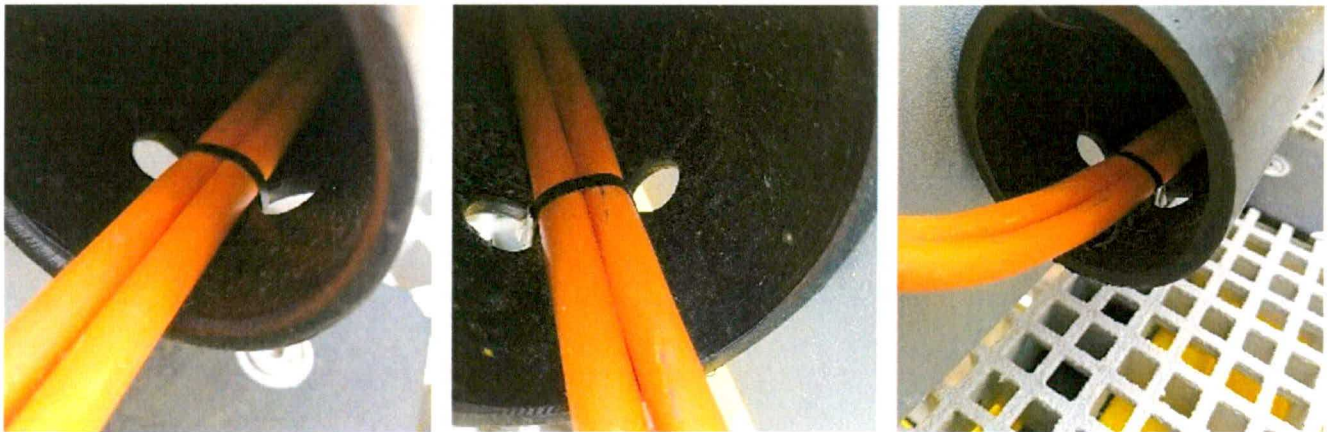
2.4 SS-Coated tie wraps are used

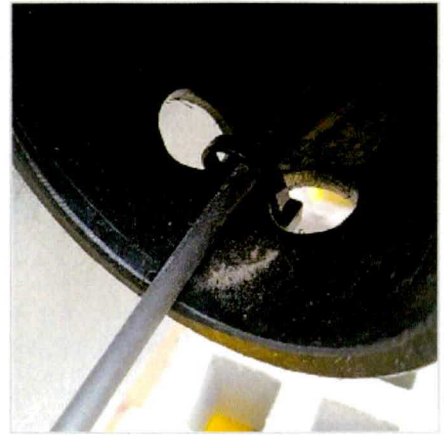
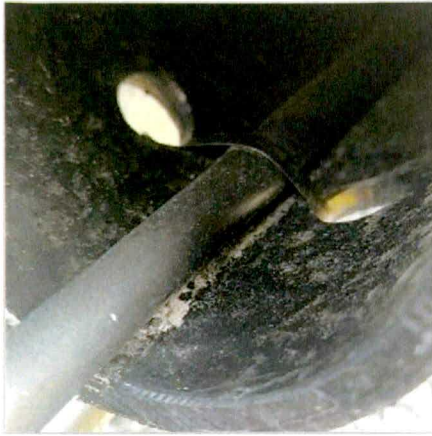
At the ends of cable pipes and every 300mm in cable trays (if applicable), maximum free span is respected.

Status OK

Remarks: Single cable from ID-Lights position 3, can be attached with plastic cable-ties.

Attachments:





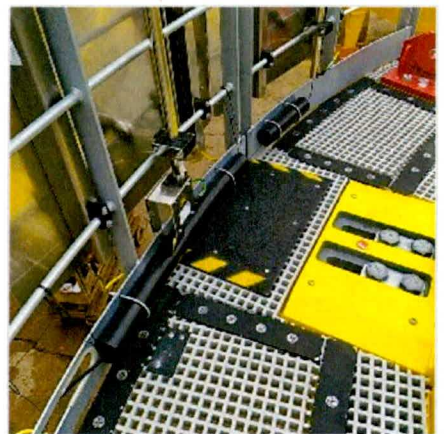
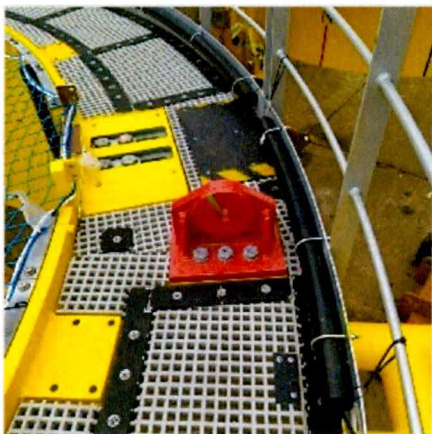
2.5 Cable trays & pipe's correctly installed & adequately supported

Edge protection applied if required

Status OK

Remarks:

Attachments:



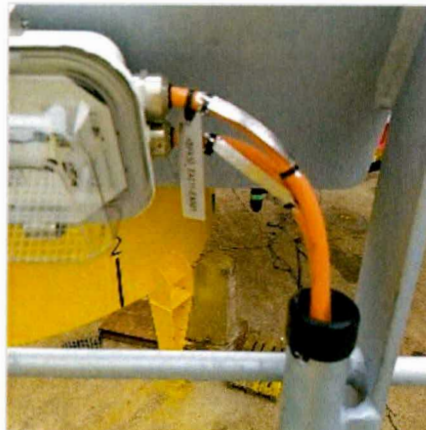


2.6 Bending radius on cables accepted & drip loops are present.

Status OK

Remarks:

Attachments:



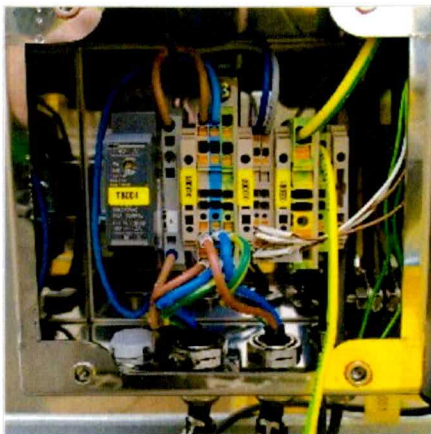
2.7 Cable terminations

Cable connections carry out correctly, conductor markers present (Conductors ID by markers or color code) & earthing lug is available and connected (PE) (if required).

Status OK

Remarks:

Attachments:



2.8 Normal Light Fixture 1 =BFA50_EA011-EA001

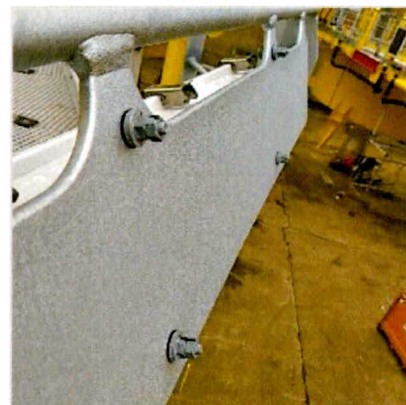
Correctly installed & adequately supported, free of damages, connected and glands are tightened.
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:



2.9 Normal Light Fixture 2 =BFA50_EA011-EA002

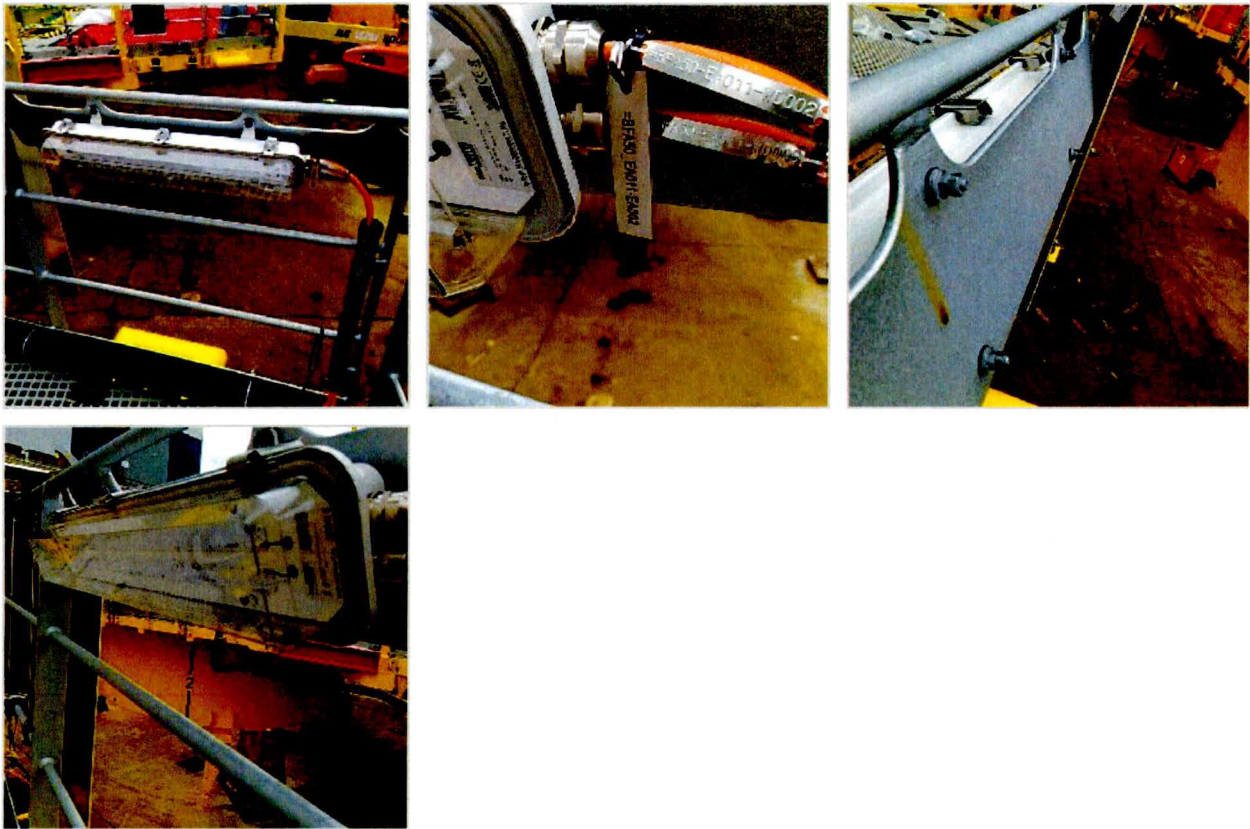
Correctly installed & adequately supported, free of damages, connected and glands are tightened.
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:



2.10 Normal Light Fixture 3 =BFA50_EA011-EA003

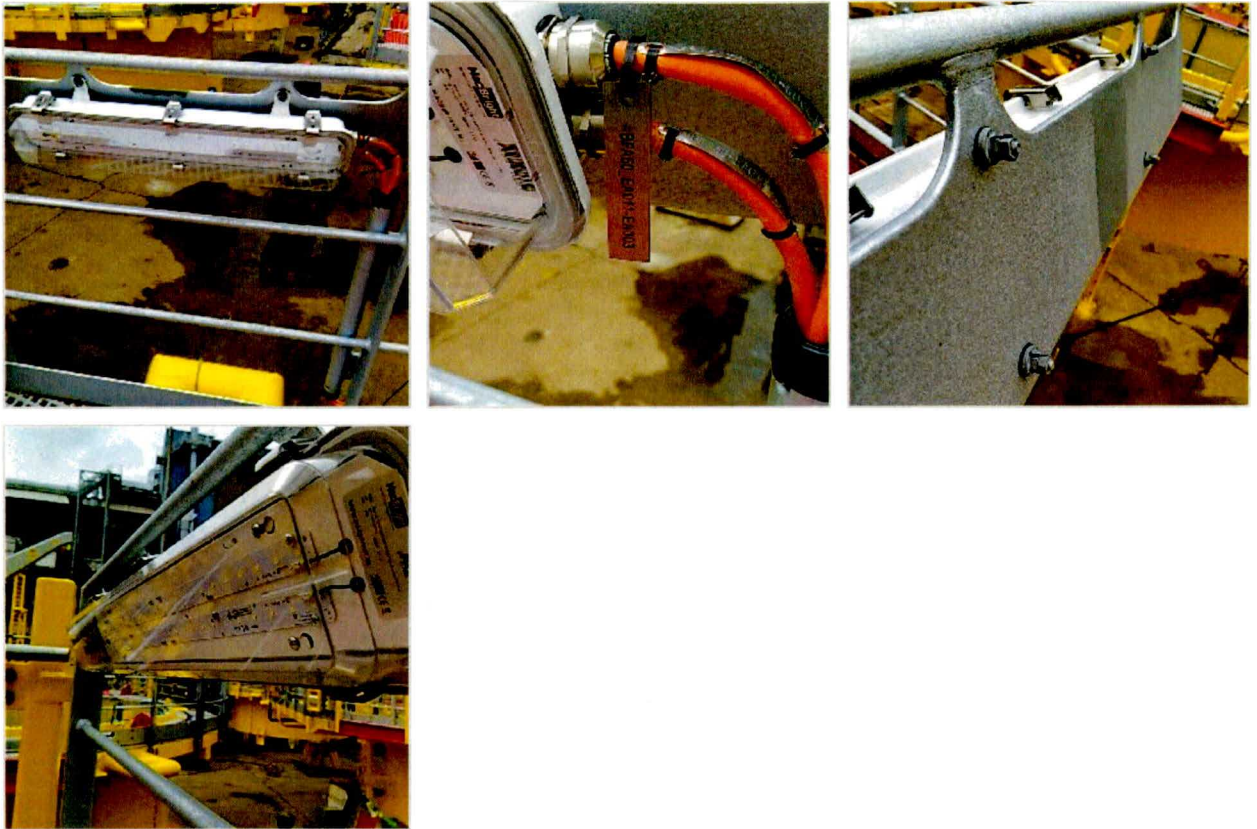
Correctly installed & adequately supported, free of damages, connected and glands are tightened.
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:



2.11 Normal Light Fixture 4 =BFA50_EA011-EA004

Correctly installed & adequately supported, free of damages, connected and glands are tightened.
RDS-PP labels are in place for equipment and cables, correct configuration off fixation bolt & washers are used and free of condensed water inside.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:





2.12 ID Lights incl. Junction box

=XSD20_EA011-EA001, =XSD20_EA012-EA001, =XSD20_EA013-EA001, (=XSD20_EA014-EA001 only on H4)

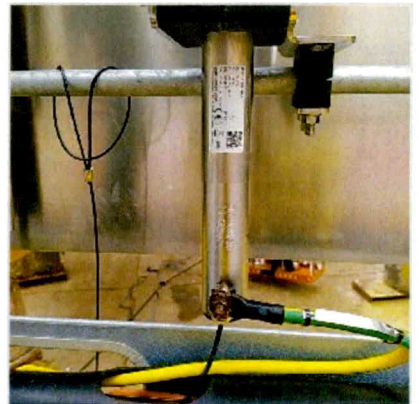
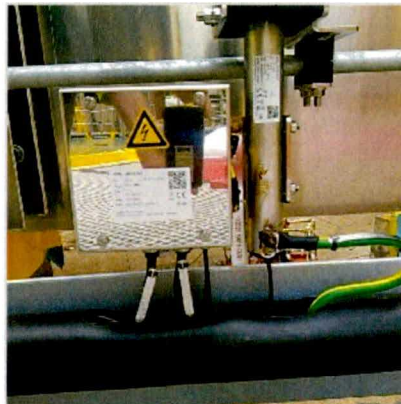
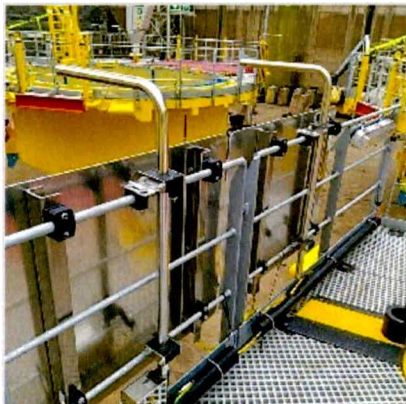
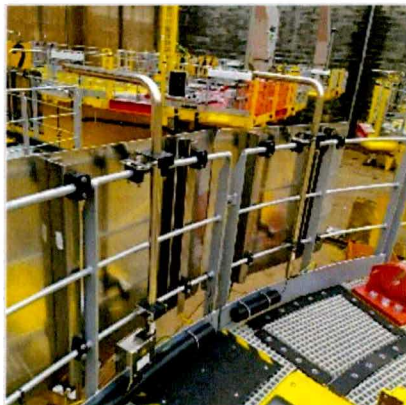
Correctly installed & adequately supported, free of damages, connected, glands are tightened and RDS-PP labels are in place for equipment and cables.

Status OK

RDS-PP label Correct OK

Remarks:

Attachments:





2.13 CCTV =CKC51-BX0(xx)

Correctly installed & adequately supported, free of damages, connected, glands are tightened, angle is checked and RDS-PP labels are in place for equipment and cable.

Position 1: Only relevant at EWP's: F1-B1-J2-W1-X3

Position 2: Only relevant at EWP's: Y4

Position 3: Only relevant at EWP's: L2 - O2

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.14 2 or 5 NM lantern

Correctly installed & adequately supported, free of damages, connected, no condensed water inside, glands are tightened and RDS-PP labels on cables are in place.

2NM Only relevant at EWP's: F6-A4-E2-D5-B6-J5-H4-R4-R1-O3-S5-U2-U4-U6-W3-X5

5NM Only relevant at EWP's: F4-A5-E4-D6-C6-B3-B5-K6-G6-R6-P5-O5-S2-U1-V6-X1-X2-X6-W5-W2

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.15 Visibility Meter

Correctly installed & adequately supported, free of damages, connected, no condensed water inside, glands are tightened and RDS-PP labels on cables are in place.

Only relevant at EWP's: F4-A5-E4-D6-C6-B3-B5-K6-R6-P5-R1-O5-S2-U1-U4-V6-X1-X2-X6-W5-W2-G6

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.16 Fog horn

Correctly installed & adequately supported, free of damages, connected, no condensed water inside, glands are tightened and RDS-PP labels are in place for cables.

Position 1=XSD20 EA031 Only relevant at TP's: A5-E4-D6-B3-B5-X1-X2-X6-W5

Position 2 =XSD20 EA041 Only relevant at TP's: F4-K6-G6-P5-O5

Position 3 =XSD20 EA041 Only relevant at TP's: C6-R6-R1-S2-U1-U4-V6-W2

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.17 Cable of Wave Radar present and sealed off with end cap

Correctly installed & adequately supported, free of damages and RDS-PP labels are in place for cables.

Only relevant at EWPs: P5-Z2-W5

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.18 Nautical Radar, Control panel & Switch

Correctly installed & adequately supported, free of damages, connected, glands tightened and RDS-PP labels are in place for equipment and cables.

Only relevant at EWPs: B3-H4

Nautical Radar =XSD20_TF001-TF001, Control panel =XSD20_KF001-TK001 & Switch =XSD20_TF001-SF001

Status N/A

RDS-PP label Correct

Remarks:

Attachments:

2.19 Davit crane =XMM13_MZ001

Correctly installed according the drawing & adequately supported

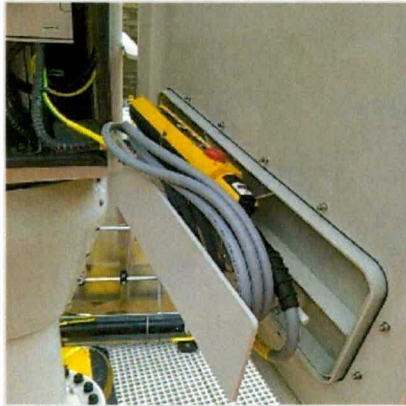
Check that cable end is sealed with end cap.

Status OK

RDS-PP label Correct OK with remarks

Remarks: RDS-PP label Davit Crane =XMM13

Attachments:



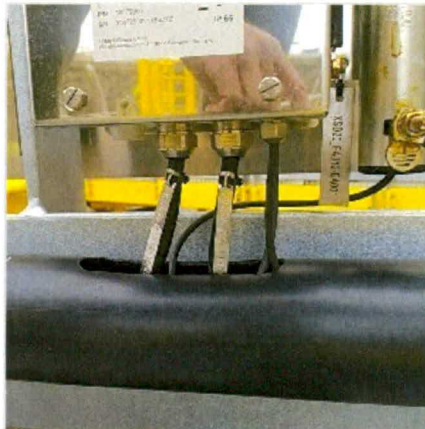
2.20 Check

Check that no stress is applied to the equipment terminals or glands due to inadequate support of cables, and that cables enter glands straight.

Status OK

Remarks:

Attachments:

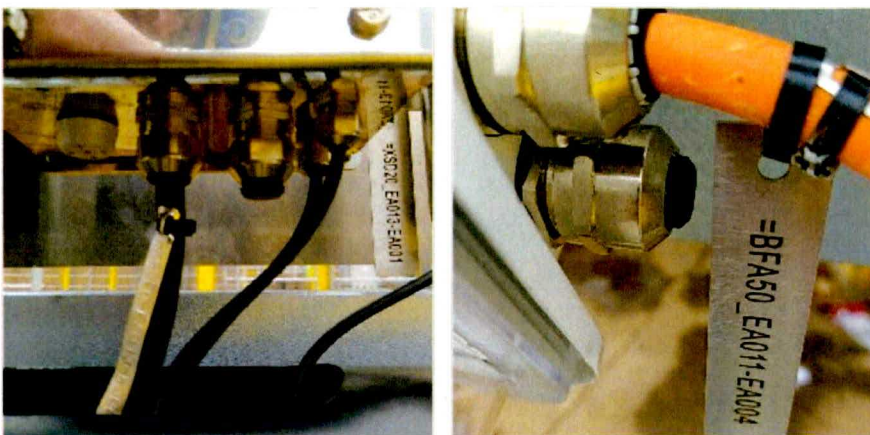


2.21 Blind plugs are used when glands are not in use.

Status OK

Remarks:

Attachments:



2.22 Over-length applied on cables where applicable and stored correctly

=XMM13_MZ001-WD001: To be cut on length at MV II - to be checked in hoboken if cable is long enough (Roxtec: 2,5m -2,7m / WTG: min 3,8m)

All cables from tubes grating level to rectangular roxtec: 2,5m - 2,7m

Over-length ICCP cables on WTG side: 4,8m - 5m

- =XQA11_FZ011-WD001 / =XQA11_FZ012-WD001 / =XQA11_FZ013-WD001 / =XQA11_FZ011-WG001 / =XQA11_FZ012-WG001

Over-length CCTV & Wave radar cable (if applicable): 3,8m - 4m

- =CKC51_BX0xx-WG001 / =CKJ30_UC001-WG001

Over-length Nautical radar power cable (if applicable), lights & ID lights: 3,5m - 3,7m

- =XSD20-KF001-WD001 / =BFA50_EA011-WD001 / =XSD20_EA011-WD001

Over-length Marine Lights cables (if applicable): 4,6m - 4,8m

- =XSD20_EA011-WD001 / =XSD20_EA012-WD001 / =XSD20_EA013-WD001 / =XSD10_BQ001-WD001 / =XSD20_PJ001-WD001

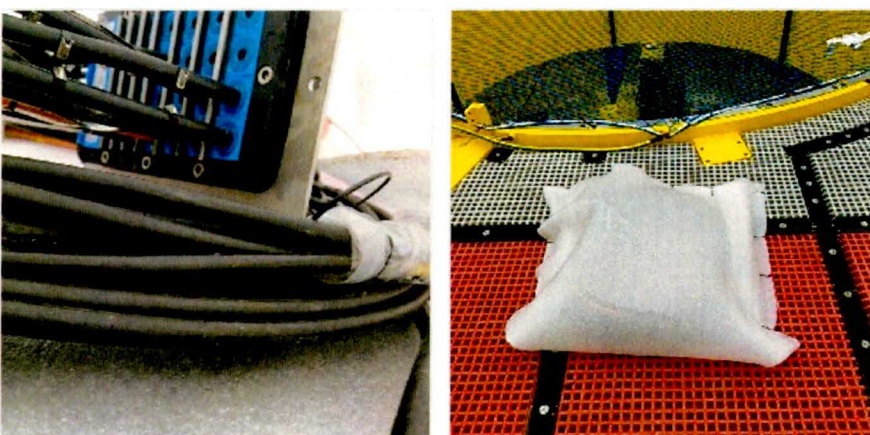
Over-length FO cable (if applicable): 25,5m - 25,7m

- =XSD20_KF001-WH001

Status OK with remarks

Remarks: TQ 4126 regarding storage is pending.

Attachments:



2.23 All interface cables are sealed with end caps or sealed with Harting cover

=XMM13_MZ001-WD001: Harting plug will be installed at MV II by Crane Supplier, end cap to be installed in Hoboken

The cables for Navigation Aids & ICCP requires an end cap

All other interface cable requires a Harting cover

Status OK

Remarks:

Attachments:

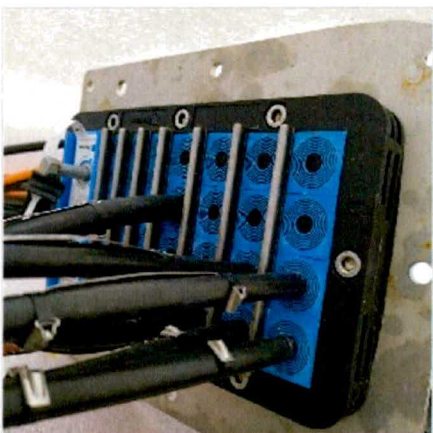


2.24 All interface cables pulled through roxtec and roxtec is correctly sealed

Status OK

Remarks:

Attachments:



2.25 Temporary Navigation Aids present, seafastened & earthed

Status OK

Remarks:

Attachments:



2.26 Storage of ICCP cables nearby BL

All cables are correctly stored with S-hook and over-length applied on ICCP cables on ICCP protection box side, cable ends sealed with plastic bag or Harting cover.

Overlength measured from tube :

Ref cell cables: 0,5m - 0,7m

- =XQA11_FZ011-WG001 / =XQA11_FZ012-WG001

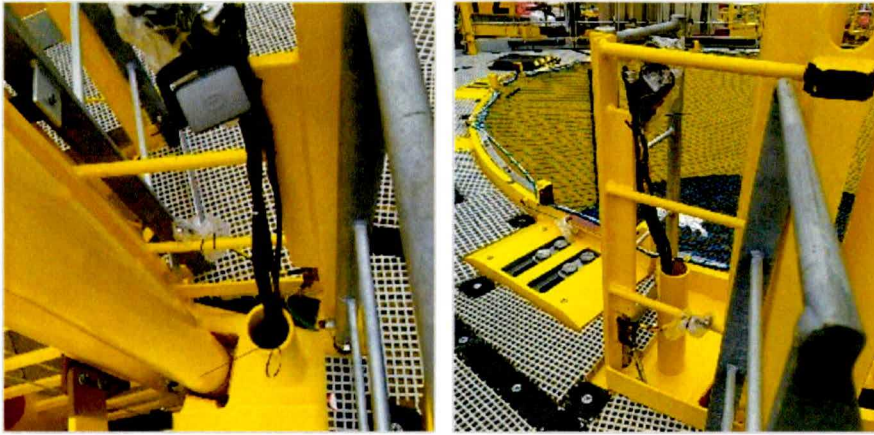
Anode cables: 0,5m - 0,7m

- =XQA11_FZ011-WD001 / =XQA11_FZ012-WD001 / =XQA11_FZ013-WD001

Status OK

Remarks:

Attachments:



2.27 Messenger wire

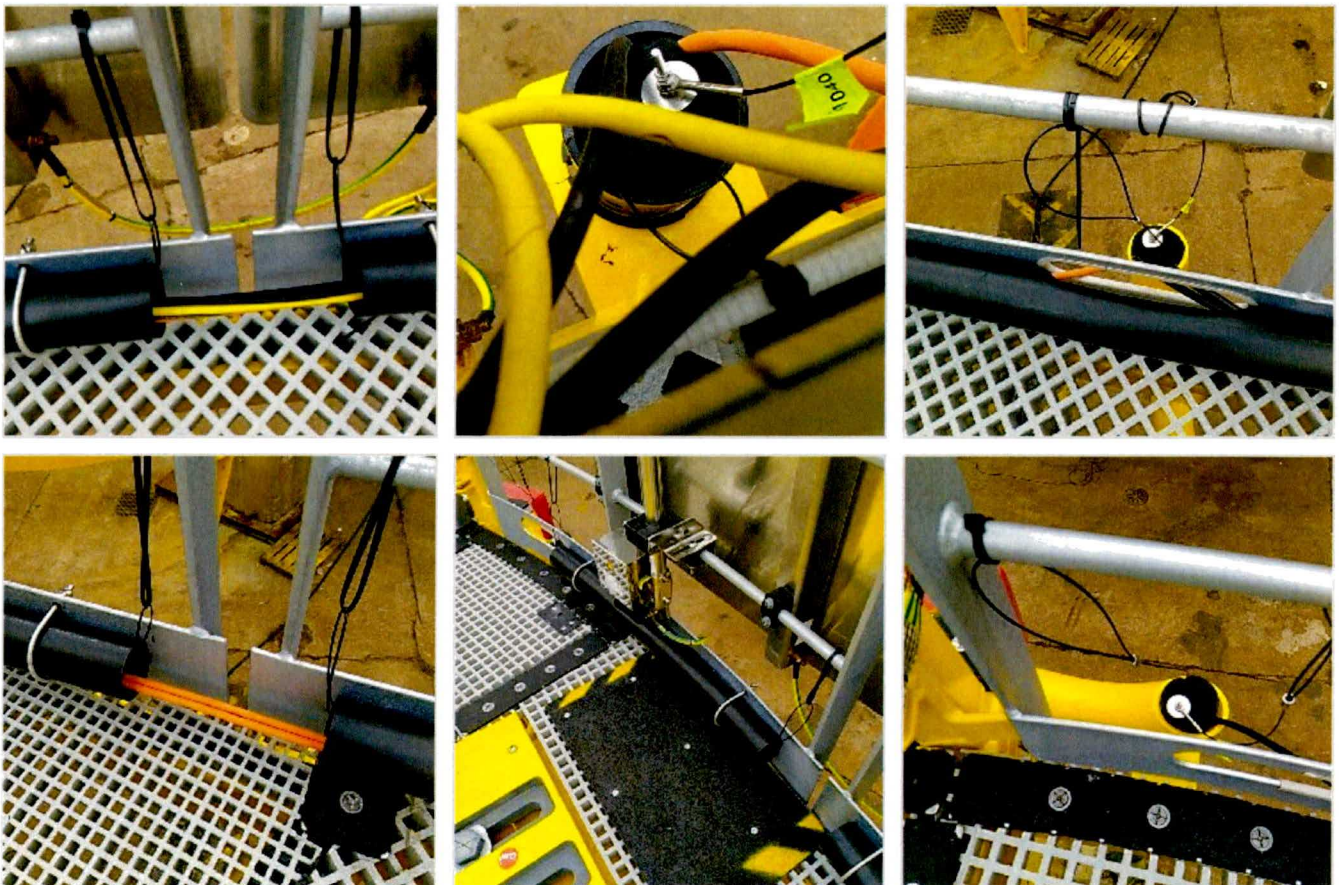
On all cable tubes longer than 0,5m is a messenger wire installed according to the drawing 25220-1921-01-E_02=55-EWP-AssemblyOverview-Cable Containment.

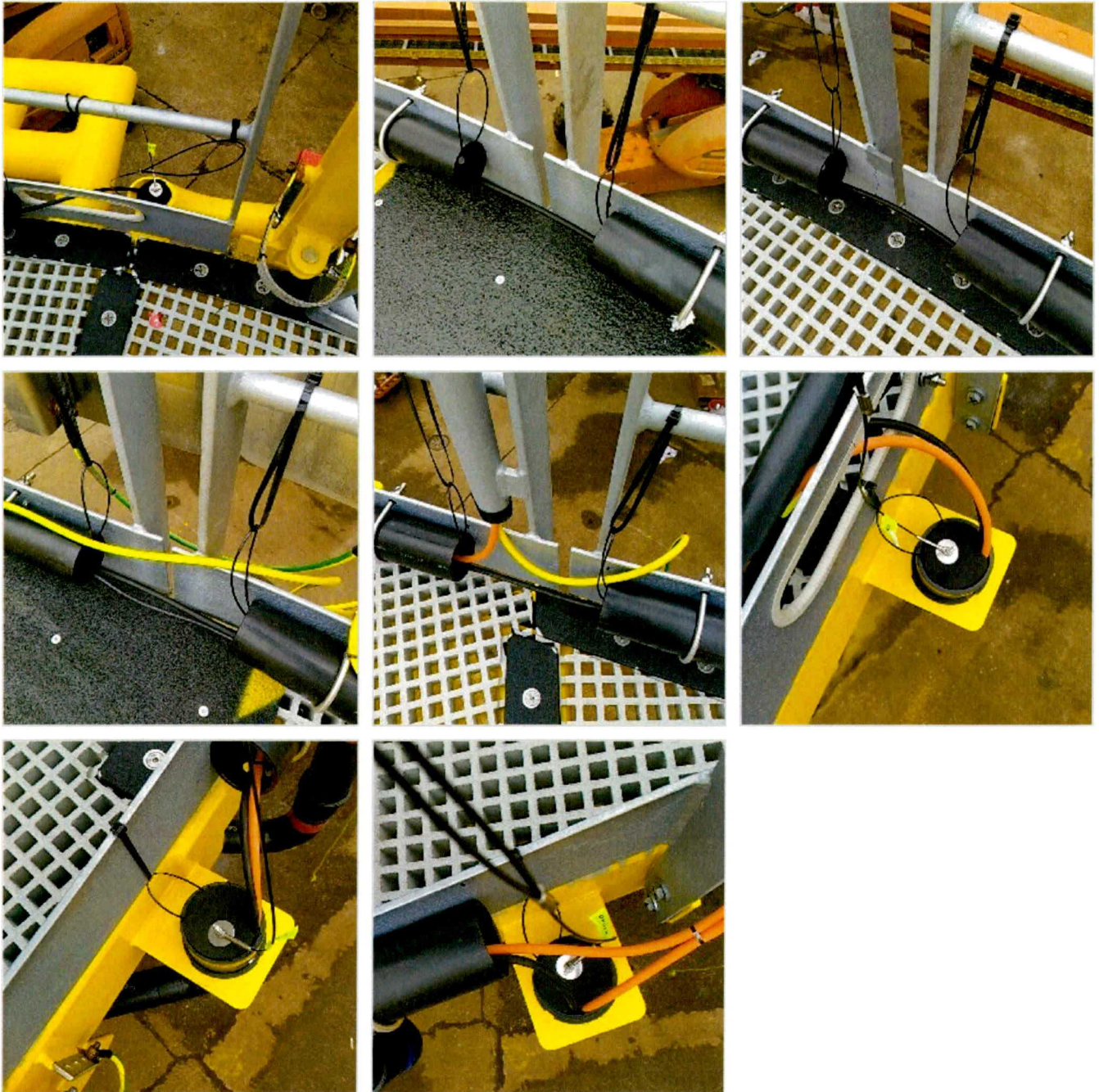
The tube along the upper ladder has a rope as messenger wire with on the bottom end a carabiner hook installed and secured to tube with plastic tie wrap, over-length on top is +/-4m.

Status OK

remarks:

Attachments





3 Closing

Status OK

Remarks:

Attachments:

Punchlist / NCR's.

Punchlist attached? Yes

NCR applicable? No

Signature Smulders

Signed by Frans Van der Wee
on 23 June, 2021 17:59
from Frans Van der Wee's device

Frans Van der Wee

☐ For Review / ☒ For approval
23. 06. 2021
Frans Van Der Wee QC Inspector SMULders

Reviewed/Witnessed/Approved by Client

Signed by Andrzej Prokowski
on 23 June, 2021 17:59
from Frans Van der Wee's device

Andrzej Prokowski

**Reviewed/Witnessed/Approved by Employer**

Signed by Pim Olthof
on 23 June, 2021 17:59
from Frans Van der Wee's device

Pim Olthof

Olthof
23-06-21

Punchlist Electrical

Created: 06-23-2021
Creator: sam Dierckxsens (@SDI)
Status: Engineering, Logistics, Mechanical,
Electrical, Touch Up
Dates: 02-03-2021 - 06-23-2021

Recipients

Description

EWP HZ-M3

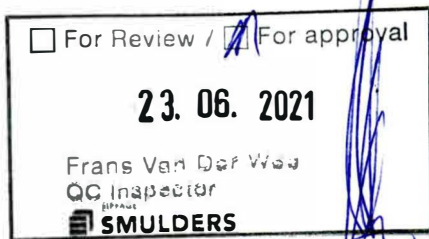
No Punch items on the Punch List.

Categories

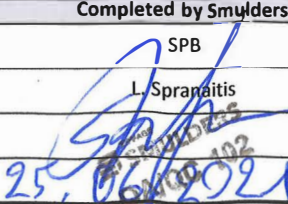
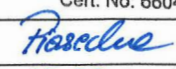
EWP 12 - M3 (M3)

Hashtags

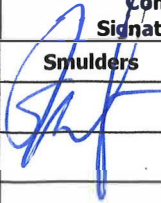
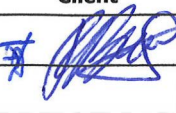
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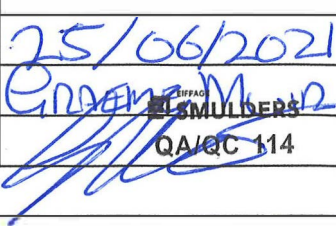
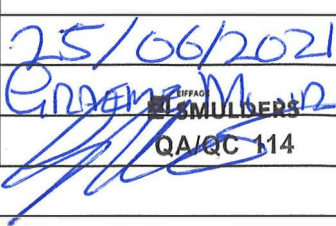
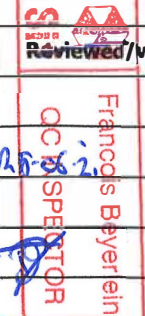
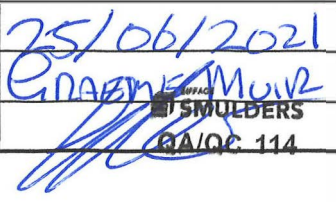
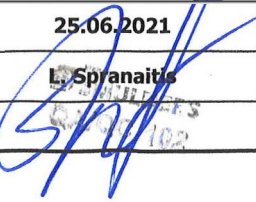
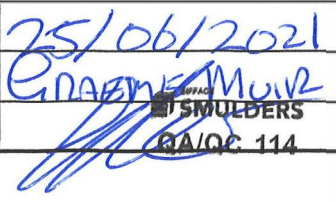
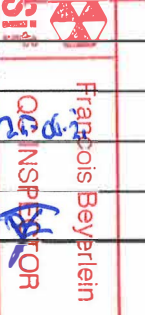


OU Haf
21-06-21

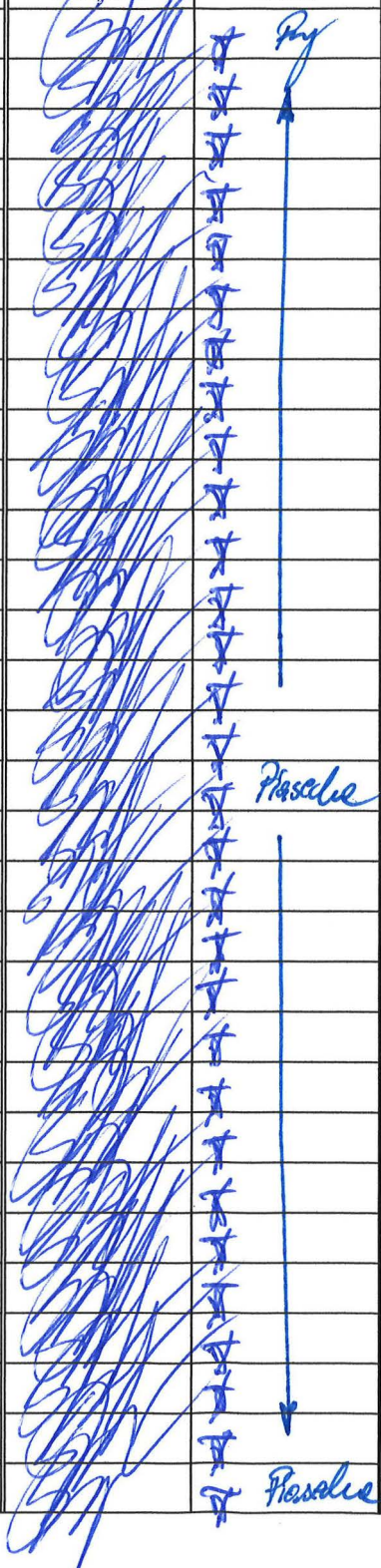
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		Order n°: 25220				
Release Note						
Release Note n°:		25220-013		Rev. 1	Date: 26-04-21	
Item	Name: External Work Platform					
	Dwg. n°: 8522-01					
Phase n° / Set n°:		HZM3 - EWP13				
Location:		SMULDERS PROJECTS - Hoboken				
1. Traceability						
		YES	N/A	NO		
Material certificates and traceability complete		☐	☒	☐		
Routecard filled in correct and complete		☐	☒	☐		
List of elements not welded (loose parts)		☐	☒	☐		
2. NDT						
		YES	N/A	NO		
VT according project specific ITP		☐	☒	☐		
MT/PT according project specific ITP		☐	☒	☐		
UT according project specific ITP		☐	☒	☐		
3. Dimensional Reporting						
		YES	N/A	NO		
Dimensional report(s) available		☐	☒	☐		
4. Corrosion Protection						
4a. After blasting (& before coating)						
		YES	N/A	NO		
Daily log data is registered/		☒	☐	☐		
Inspection report of subcontractor is available		☒	☐	☐		
Soluble salt within range		☒	☐	☐		
Roughness (Rz) achieved		☒	☐	☐		
Surface preparation grade (Sa2,5;Sa3 / P St3) and cleanliness achieved		☒	☐	☐		
Dust cleaning achieved		☒	☐	☐		
Steel surface inspection according 8501-3		☒	☐	☐		
4b. After coating						
		YES	N/A	NO		
Daily log data is registered/		☒	☐	☐		
Inspection report of subcontractor is available		☒	☐	☐		
Metallization (TSZA/TSA) or		☒	☐	☐		
Hot Dip Galvanising applied according project specification		☒	☐	☐		
Coating system applied according project specification		☒	☐	☐		
Visual inspection of applied coating systems		☒	☐	☐		
Final coating inspection (DFT)		☒	☐	☐		
5. Functionalities						
		YES	N/A	NO		
		☐	☒	☐		
Release						
		YES	N/A	NO		
Items marked for traceability		☒	☐	☐		
Release for transport		☒	☐	☐		
Punch list attached		☒	☐	☐		
Remarks						
		Completed by Smulders		Reviewed/Witnessed/Approved by client		
Company	SPB					
Name	L. Spranaitis					
Signature						
Date	25.06.2021					
		VATTENFALL		Aleksandra Piasecka		
		Coating Inspector, Fresio level III		Cert. No: 6604		
				25.06.2021		

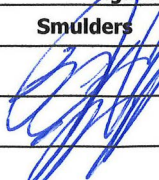
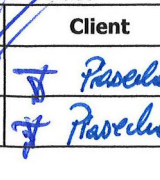
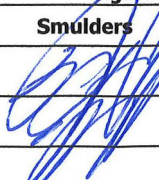
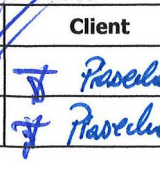
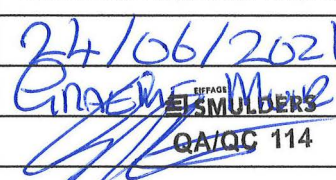
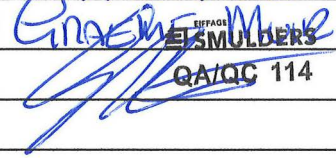
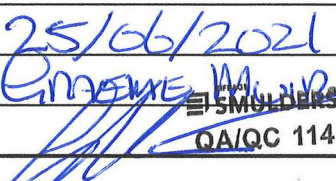
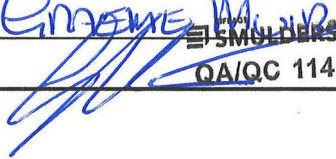
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Project ID		25220	
Project Name		Holland Kust Zuid (HKZ)	
Item	Name	External Work Platform	
	EWP N°	HZM3- EWP13	
Date		25.06.2021	
Location		Smulders Projects Belgium	

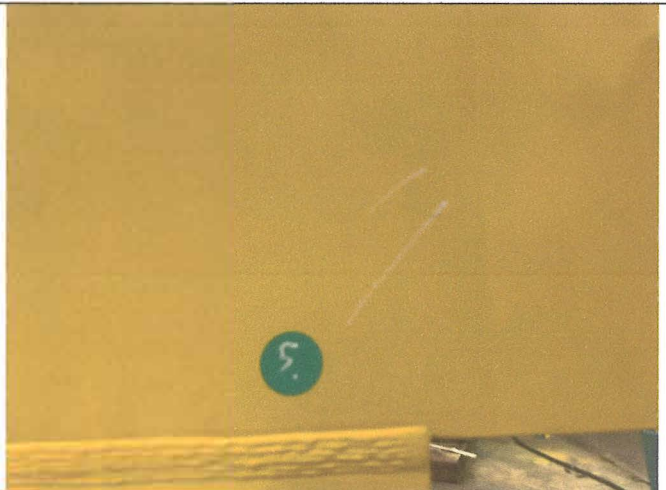
N°	Description	Completion Signature + Date	
		Smulders	Client
1	New mechanical damage on the kick plate, next to the swing gate.		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Punch List Agreed				
	Completed by:	Approved by:	Reviewed/witnessed by client:	
COMPANY	SMULDERS PROJECTS BELGIUM	SMULDERS PROJECTS BELGIUM		
DATE	25.06.2021	25/06/2021		
NAME	L. Spranaitis			
SIGNATURE				
		QA/QC 114	 François Beyerlein Coating Inspector, Fosid level III Cert. No: 6804 25.06.2021	
Final Acceptance				
COMPANY	SMULDERS PROJECTS BELGIUM	SMULDERS PROJECTS BELGIUM		
DATE	25.06.2021	25/06/2021		
NAME	L. Spranaitis			
SIGNATURE				
		QA/QC 114	 François Beyerlein Coating Inspector, Fosid level III Cert. No: 6804 25.06.2021	

HZM 3	Rev. 3	Date: 25.06.2021
		
No. 1 – New mechanical damage on the kick plate, next to the swing gate.	No. 2 –	

		Punchlist Final Release Coating		SMU-RN-PL			
Project ID		25220					
Project Name		Holland Kust Zuid (HKZ)					
Item	Name	External Work Platform					
	EWP N°	HZM3 - EWP13					
Date		24.06.2021					
Location		Smulders Projects Belgium					
N°	Description	Completion Signature + Date <table border="1"> <tr> <td>Smulders</td> <td>Client</td> </tr> </table>				Smulders	Client
Smulders	Client						
1	Top coat repair, smoothening of the edge required.						
2	Burn marks, fly rust, cleaning and topcoat repair required.						
3	Pour touch up, inclusions, topcoat repair required.						
4	General comment, cleaning required.						
5	Fly rust and burn marks, cleaning and topcoat repair required.						
6	Another layer of topcoat required.						
7	B. L. upper ladder, bolt holes must be sealed and top coated.						
8	Mechanical damages, topcoat repair required.						
9	Pour touch up, sanded but not painted.						
10	Pour workmanship, topcoat shall be removed from HDG handrail, additional layer of topcoat required on bracket.						
11	Top coat repair required.						
12	Topcoat repair required.						
13	Dirt and fly rust under the gratings. Cleaning required.						
14	Dirt and fly rust under the gratings. Cleaning required.						
15	HDG handrails, not closed film, surface preparation and paint application required.						
16	Dirt and fly rust. Cleaning required.						
17	Kick plate edge, topcoat shall be removed, epoxy repair required.						
18	Mechanical damage.						
19	Top coat repair required.						
20	Dirt and fly rust under the gratings. Cleaning required.						
21	Mechanical damage to coating, epoxy repair required.						
22	Mechanical damage. Swing gate, S side.						
23	Mechanical damage. W side UPN.						
24	Topcoat application required. WS side.						
25	Topcoat repair required.						
26	Inclusions in topcoat.						
27	Cleaning and Topcoat application required.						
28	Not finished touch up, topcoat application required.						
29	HDG handrails, mechanical damage.						
30	Mechanical damage, topcoat. South side, outside can.						

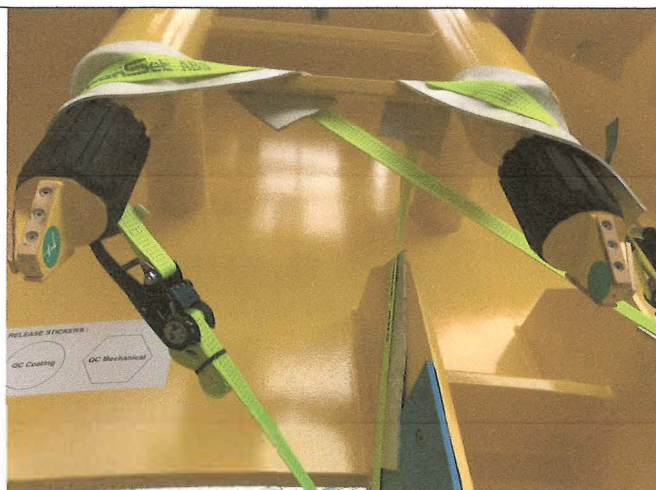
		Punchlist Final Release Coating		SMU-RN-PL	
Project ID		25220			
Project Name		Holland Kust Zuid (HKZ)			
Item	Name	External Work Platform			
	EWP N°	HZM3- EWP13			
Date		24.06.2021			
Location		Smulders Projects Belgium			
N°	Description	Completion Signature + Date			
		Smulders		Client	
31	Nord side sliding gate, HDG handrail, mechanical damage. Surface preparation and paint application required.				
32	Nord side sliding gate, HDG handrail, mechanical damage. Surface preparation and paint application required.				
Punch List Agreed					
		Completed by:	Approved by:	Reviewed/witnessed by client:	
COMPANY		SMULDERS PROJECTS BELGIUM	SMULDERS PROJECTS BELGIUM		
DATE		24.06.2021	24/06/2021		
NAME		L. Spranaitis			
SIGNATURE					
Final Acceptance					
COMPANY		SMULDERS PROJECTS BELGIUM	SMULDERS PROJECTS BELGIUM		
DATE		25.06.2021	25/06/2021		
NAME		L. Spranaitis			
SIGNATURE					

H3M3	Rev. 2	Date: 24.06.2021
		
No. 1 – Top coat repair, smoothing of the edge required.	No. 2 – Burn marks, fly rust, cleaning and topcoat repair required.	
		
No. 3 – Pour touch up, inclusions, topcoat repair required.	No. 4 – General comment, cleaning required.	
		
No. 5 – Fly rust and burn marks, cleaning and topcoat repair required.	No. 6 – Another layer of topcoat required.	

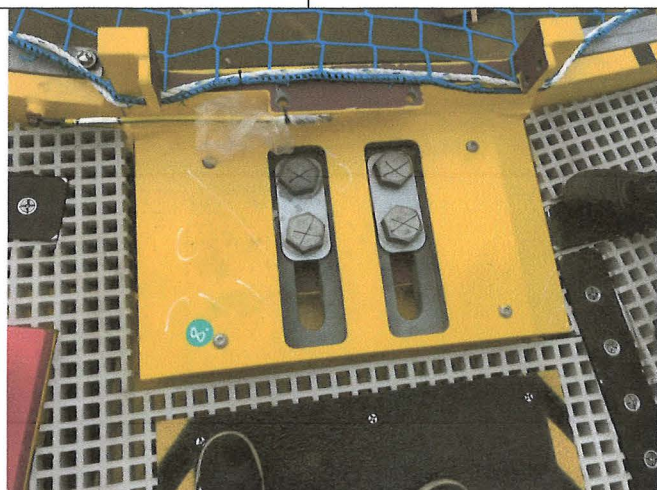
HZM3

Rev. 2

Date: 24.06.2021



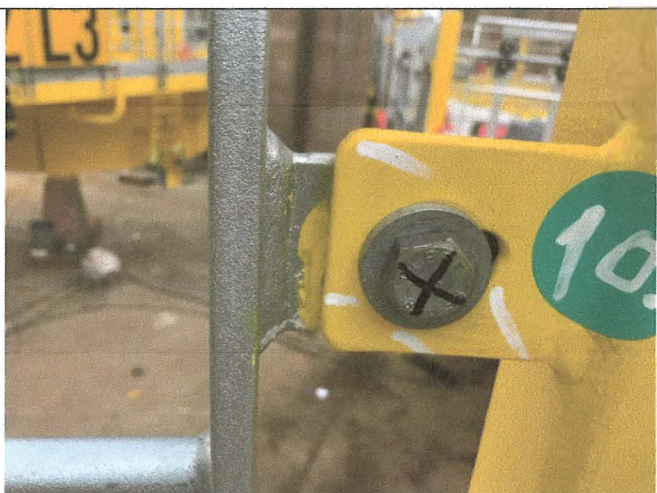
No. 7 – B. L. upper ladder, bolt holes must be sealed and top coated.



No. 8 – Mechanical damages, topcoat repair required.



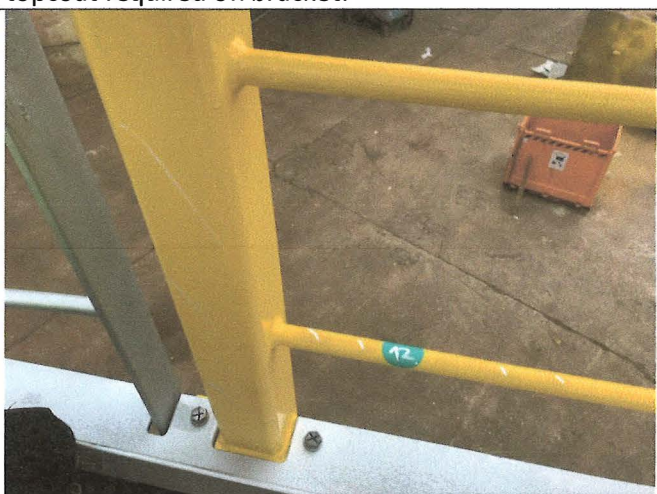
No. 9 – Pour touch up, sanded but not painted.



No. 10 – Pour workmanship, topcoat shall be removed from HDG handrail, additional layer of topcoat required on bracket.



No. 11 – Top coat repair required.



No. 12 – Topcoat repair required.

HZM3

Rev. 2

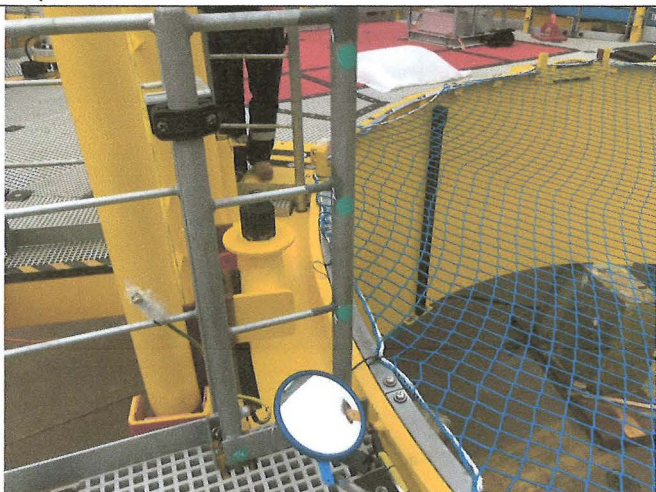
Date: 24.06.2021



No. 13 - Dirt and fly rust under the gratings. Cleaning required.



No. 14 - Dirt and fly rust under the gratings. Cleaning required.



No. 15 – HDG handrails, not closed film, surface preparation and paint application required.



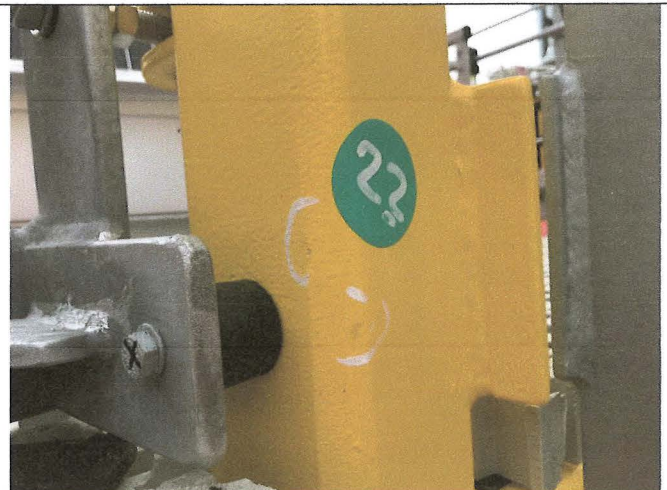
No. 16 - Dirt and fly rust. Cleaning required.

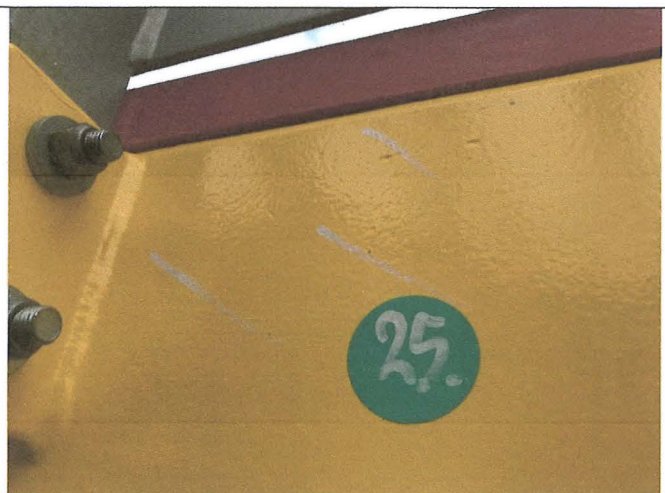
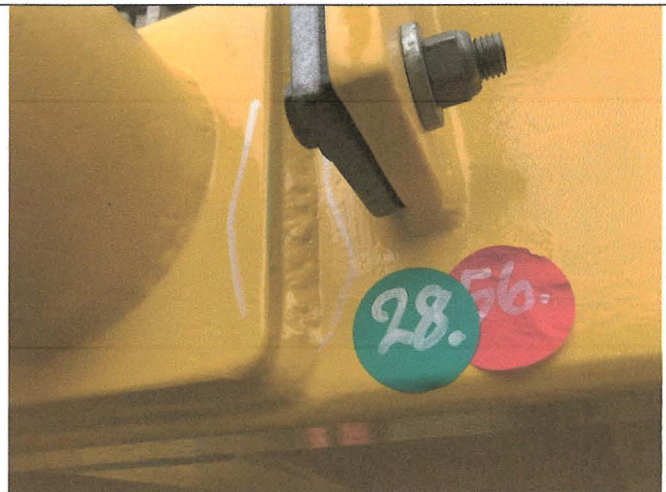


No. 17 – Kick plate edge, topcoat shall be removed, epoxy repair required.



No. 18 – Mechanical damage.

H2M3	Rev. 2	Date: 24.06.2021
		
No. 19 – Top coat repair required.	No. 20 – Dirt and fly rust under the gratings. Cleaning required.	
		
No. 21 – Mechanical damage to coating, epoxy repair required.	No. 22 – Mechanical damage. Swing gate, S side.	
		
No. 23 – Mechanical damage. W side UPN.	No. 24 – Topcoat application required. WS side.	

HZM3	Rev. 2	Date: 24.06.2021
		
No. 25 – Topcoat repair required.	No. 26 – Inclusions in topcoat.	
		
No. 27 – Cleaning and Topcoat application required.	No. 28 – Not finished touch up, topcoat application required.	
		
No. 29 – HDG Handrail, mechanical damage.	No. 30 – Mechanical damage, topcoat. South side, outside can.	

HZM3	Rev. 2	Date: 24.06.2021
		
No. 31 - Nord side sliding gate, HDG handrail, mechanical damage. Surface preparation and paint application required.	No. 32 – Nord side sliding gate, HDG handrail, mechanical damage. Surface preparation and paint application required.	



D-TI-GR-066-25220+A1:S46		Daily log - Coating application				Rev	1
						Date	17/06/2020
Project name		Hollandse Kust Zuid		Project N°		25220	
Performed at:		☒ mulders Arendonk ☒ mulders Balen ☒ mulders Hoboken ☐ fabricom Yard ☐ Site					
Subcontractor (to be filled in):		☐					
Part description		EXTERNAL WORK PLATFORM HZG1 Finger guides weld joint					

1. Cleaning Free of oil and grease

OK	NOK
X	

2. Inspection prior to blasting:

Test	Acc. Standard	Acceptance Criteria	OK	NOK
Compressed air (blotter test)	ASTM D4285	No oil and no moisture	X	
Rust grade	ISO 8501-1	Max. B	X	

3. Surface preparation:

Pre-cure preparation								
Date	Time		RH (%)	Tsteel (°C)	Tambient (°C)	Td (°C)	ΔT (°C)	Remarks
13.06.2021	Start time	12:00	51,5	24,2	24,8	14,1	10,1	NO
13.06.2021	End time	15:30						NO

Test	Acc. Standard	Acceptance Criteria	OK	NOK
Bresle test	ISO 8502-6/9	≤ 50 mg/m²	X	
Cleanliness	ISO 8501-1	Sa 2 ½ for coating, Sa 3 for TSZA	X	
Dust	ISO 8502-3	Quantity ≤ 2, Size ≤ 2	X	
Surface Profile	ISO 8503-2	Comparator - Medium (G)	X	
Visual inspection / Surface preparation grades	ISO 8501-3	of ITP P-TI-GR-076-25220	X	

4. Coating application: Paintsystem VS1 acc. to Faborder D-TI-GR-007-25220 Hollandse Kust Zuid

VS1

Layer		Date	Time		Component A Base		Component B Cure		Thinner			Application	RH (%)	Ts (°C)	Ta (°C)	Td (°C)	ΔT (°C)
					Prod. Name	Batch n°	Prod. Name	Batch n°	Prod. Name	Batch n°	V%						
1	Stripe coat	13.06.2021	Start	16:00	Interzone 954 Oxide red	2330364013	EAA984	2240356064	GTA 220	5%	Brush	40,8	30,6	27,9	13,4	17,2	
			End	17:20													
	Full coat	13.06.2021	Start	17:30	Interzone 954 Oxide red	2330364013	EAA984	2240356064	GTA 220	5%	Airless spray						
			Each 4h. In between if app.														
			End	18:30													
2	Stripe coat	14.06.2021	Start	15:30	Interzone 954 RAL 7035	2330338025	EAA984	2240356064	GTA 220	5%	Brush	29,8	33,3	32,2	12,3	21	
			End	15:50													
	Full coat	14.06.2021	Start	16:00	Interzone 954 RAL 7035	2330338025	EAA984	2240356064	GTA 220	5%	Airless spray						
			Each 4h. In between if app.														
				End	17:00												
	Touch-up		Start		Interzone 954 RAL 7035		EAA984		GTA 220	5%	Brush / Airless spray						
Each 4h. In between if app.																	
			End														
3	Stripe coat	15.06.2021	Start	16:15	Interthane 990 RAL 1023	2330059032	Interthane 990 Part B	2330322018	GTA 713	5%	Brush / Roller	37,6	30,9	29,7	13,7	17,2	
			End	16:45													
	Full coat	15.06.2021	Start	17:00	Interthane 990 RAL 1023	2330059032	Interthane 990 Part B	2330322018	GTA 713	5%	Airless spray						
			Each 4h. In between if app.														
				End	18:00												
	Touch-up		Start		Interthane 990 RAL 1023		Interthane 990 Part B		GTA 713	5%	Brush / Roller / Airless spray						
Each 4h. In between if app.																	
			End														



D-TI-GR-066-25220+A1:S46	Daily log - Coating application		Rev	1
			Date	17/06/2020
Project name	Hollandse Kust Zuid	Project N°	25220	

5. Coating inspection: Paint systems VS1 and MET1 acc. to Faborder D-TI-GR-007-25220 Hollandse Kust Zuid

System	Layer	Nom. DFT (µm)	Min. DFT (µm)	Max. DFT (µm)	Avg. DFT (µm)	Elcometer Batch No.	OK/NOK	Visual OK/NOK
VS1	1st Layer	300	290	866	534,28	UB12297	OK	OK
	2nd Layer	300	496	1344	788,98	UB12297	OK	OK
	3rd Layer	80	569	1075	922,8	UB12297	OK	OK

6. Remarks:

(*) Areas with too low thickness can be corrected with the next coat if the same type of binder is used and in accordance with the paint manufacturer requirements.

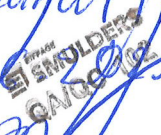
(*) Areas with too high DFT are sanded back.

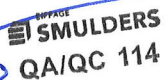
Test plate applicable:

☐ YES ☒ NO

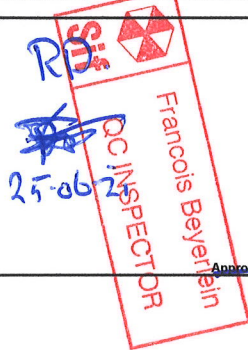
7. Conclusion

Accepted ? ☒ YES ☐ NO

R. Sprangers
25-06-2021

Completed by QC Inspector



Controlled by QC Engineer

Approved by Paint Manufacturer


Roselina
Aleksandra Piasecka
Coating inspector, Frosio level III
Cert. No: 6604
18.06.2021
Approved by Client

D-TI-GR-055-25220	Inspection report surface treatment		Rev.: 1-0
			Date: 14/05/2020
Project name	Hollandse Kust Zuid	project N°	25220

Part Description: HZM3		
Project: 25220	Date: 12.06.2021	Time: 15:00

1 Dust report acc. to ISO 8502-3

1.		
Quantity =	≤ 2 Ok	Size = ≤ 2 Ok
2.		
Quantity =		Size =
3.		
Quantity =		Size =
4.		
Quantity =		Size =
5.		
Quantity =		Size =
6.		
Quantity =		Size =

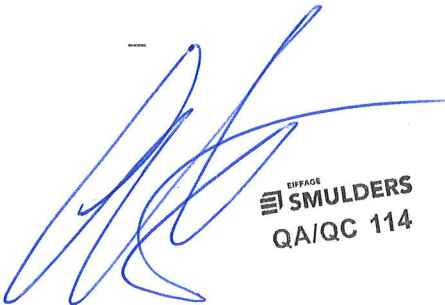
D-TI-GR-055-25220	Inspection report surface treatment		Rev.: 1-0
			Date: 14/05/2020
Project name	Hollandse Kust Zuid	project N°	25220

2 Surface roughness acc. to ISO 8503-1

Method:	☐ Testex (ISO 8503-4) ☒ Comparator (ISO 8503-1/2)
Sacta2 OK	

3 Bresle test acc. To ISO 8502-6/9

Measured value – Blank value – Patch contamination value = Result				
	Measured value μS/cm	Blank value μS/cm	Patch batch + contamination mg/m²	Result mg/m²
A	32,6	0,8	4.06	27,2
B				
C				
D				
E				
F				

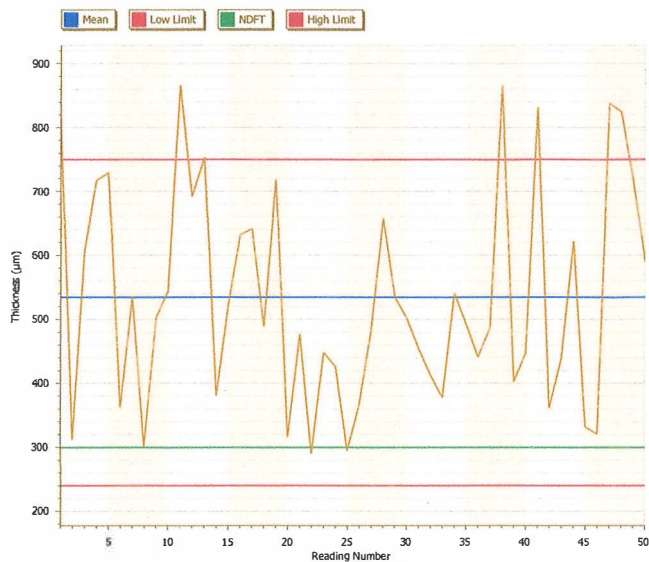


 EIFFAGE
SMULDERS
 QA/QC 114

Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP13 (M3) Done\FG Done\
1st Layer VS1

Individuals / Run Chart



Project

Name

25220 HKZ

Gauge

Type
Serial #

Elcometer 456/4
UB12297

Probe

Type
Serial #

F2
VA07726

Calibration

Calibration Method
Type
Date
Thick Foil
Thin Foil
Offset

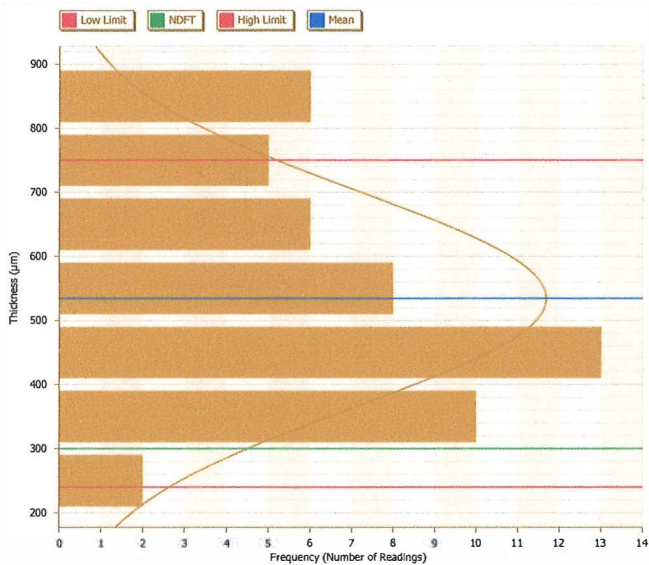
Zero Offset
F1
14/06/2021 07:37
958,0
0,0
25,0 µm

Batch

Type
Name in Gauge
User ID
Created Date
Updated Date
First Reading Date
Last Reading Date

Thickness
Batch
1st Layer VS1
14/06/2021 07:38:14
14/06/2021 07:38:14
14/06/2021 08:13:38
14/06/2021 08:19:45

Histogram



Statistics

Readings
Mean
Maximum
Minimum
Standard Deviation (σ)
Mean + 3σ
Mean - 3σ
Coefficient of Variation
Readings < NDFT
Readings $\geq$ NDFT

50
534,28 µm
866,0 µm
290,0 µm
169,86 µm
1043,86 µm
24,70 µm
31,8%
2 (4,0%)
48 (96,0%)

Limits

High Limit
Low Limit
NDFT

750,0 µm
240,0 µm
300,0 µm

Readings Above
Readings Below

7 (14,0%)
0 (0,0%)

Notes

1. DFTs have been measured in accordance with ISO 19840 i.e. 4 point measurements.
2. Low DFT out of specification range was rectified with next coat.
3. High DFT out of specification range was sanded down.
4. Daily adjustments of gauges carried out using foil set 151-783.

Inspection Report - Dry Film Thickness

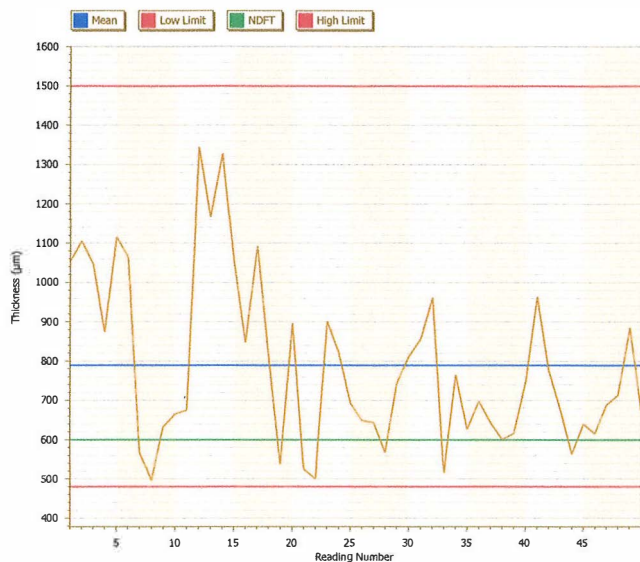
25220 HKZ\EWP\EWP13 (M3) Done\FG Done\
1st Layer VS1

Date & Time	#	Thickness	Type
14/06/2021 08:13:38	1	813,0	F1
14/06/2021 08:13:59	2	312,0	F1
14/06/2021 08:14:00	3	607,0	F1
14/06/2021 08:14:01	4	717,0	F1
14/06/2021 08:14:03	5	729,0	F1
14/06/2021 08:14:04	6	362,0	F1
14/06/2021 08:14:46	7	535,0	F1
14/06/2021 08:14:49	8	302,0	F1
14/06/2021 08:16:02	9	502,0	F1
14/06/2021 08:16:04	10	544,0	F1
14/06/2021 08:16:05	11	866,0	F1
14/06/2021 08:16:06	12	692,0	F1
14/06/2021 08:16:07	13	753,0	F1
14/06/2021 08:16:14	14	381,0	F1
14/06/2021 08:16:15	15	522,0	F1
14/06/2021 08:16:16	16	632,0	F1
14/06/2021 08:16:17	17	641,0	F1
14/06/2021 08:16:20	18	489,0	F1
14/06/2021 08:16:21	19	719,0	F1
14/06/2021 08:16:23	20	316,0	F1
14/06/2021 08:16:24	21	477,0	F1
14/06/2021 08:16:25	22	290,0	F1
14/06/2021 08:16:26	23	448,0	F1
14/06/2021 08:16:28	24	426,0	F1
14/06/2021 08:16:43	25	295,0	F1
14/06/2021 08:16:44	26	367,0	F1
14/06/2021 08:16:46	27	484,0	F1
14/06/2021 08:16:47	28	658,0	F1
14/06/2021 08:17:42	29	535,0	F1
14/06/2021 08:17:44	30	502,0	F1
14/06/2021 08:17:45	31	454,0	F1
14/06/2021 08:17:46	32	412,0	F1
14/06/2021 08:17:47	33	378,0	F1
14/06/2021 08:17:48	34	541,0	F1
14/06/2021 08:17:50	35	493,0	F1
14/06/2021 08:17:56	36	441,0	F1
14/06/2021 08:17:57	37	487,0	F1
14/06/2021 08:17:58	38	866,0	F1
14/06/2021 08:17:59	39	403,0	F1
14/06/2021 08:18:06	40	447,0	F1
14/06/2021 08:18:07	41	831,0	F1
14/06/2021 08:18:09	42	361,0	F1
14/06/2021 08:18:10	43	439,0	F1
14/06/2021 08:19:24	44	622,0	F1
14/06/2021 08:19:25	45	332,0	F1
14/06/2021 08:19:26	46	321,0	F1
14/06/2021 08:19:27	47	838,0	F1
14/06/2021 08:19:29	48	824,0	F1
14/06/2021 08:19:44	49	719,0	F1
14/06/2021 08:19:45	50	589,0	F1

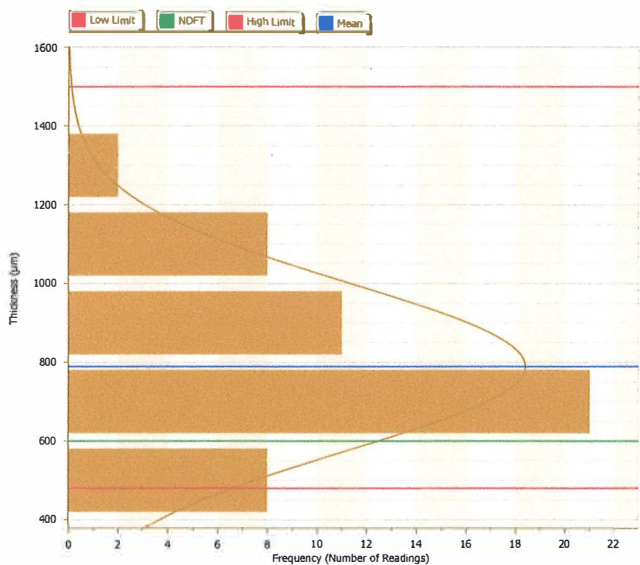
Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP13 (M3) Done\FG Done\
2nd Layer VS1

Individuals / Run Chart



Histogram



Notes

1. DFTs have been measured in accordance with ISO 19840 i.e. 4 point measurements.
2. Daily adjustments of gauges carried out using foil set 151-783.

Project

Name 25220 HKZ

Gauge

Type Elcometer 456/4
Serial # UB12297

Probe

Type F2
Serial # VA07726

Calibration

Calibration Method Zero Offset
Type F1
Date 15/06/2021 08:27
Thick Foil 958,0
Thin Foil 0,0
Offset 25,0 µm

Batch

Type Thickness
Name in Gauge Batch
User ID 2nd Layer VS1
Created Date 15/06/2021 08:27:54
Updated Date 15/06/2021 08:27:54
First Reading Date 15/06/2021 10:53:09
Last Reading Date 15/06/2021 13:09:07

Statistics

# Readings	50
Mean	788,98 µm
Maximum	1344,0 µm
Minimum	496,0 µm
Standard Deviation (σ)	215,80 µm
Mean + 3 σ	1436,39 µm
Mean - 3 σ	141,57 µm
Coefficient of Variation	27,4%
# Readings < NDFT	8 (16,0%)
# Readings $\geq$ NDFT	42 (84,0%)

Limits

High Limit	1500,0 µm	# Readings Above	0 (0,0%)
Low Limit	480,0 µm	# Readings Below	0 (0,0%)
NDFT	600,0 µm		

Inspection Report - Dry Film Thickness

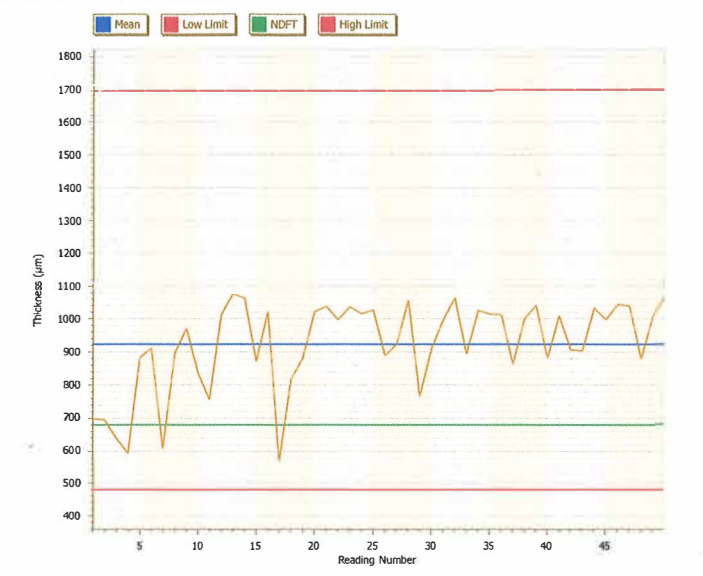
25220 HKZ\EWP\EWP13 (M3) Done\FG Done\
2nd Layer VS1

Date & Time	#	Thickness	Type
15/06/2021 10:53:09	1	1054,0	F1
15/06/2021 10:53:10	2	1105,0	F1
15/06/2021 10:53:11	3	1047,0	F1
15/06/2021 10:53:12	4	874,0	F1
15/06/2021 10:53:13	5	1115,0	F1
15/06/2021 10:53:14	6	1064,0	F1
15/06/2021 13:06:00	7	568,0	F1
15/06/2021 13:06:01	8	496,0	F1
15/06/2021 13:06:03	9	632,0	F1
15/06/2021 13:06:32	10	665,0	F1
15/06/2021 13:06:33	11	675,0	F1
15/06/2021 13:07:03	12	1344,0	F1
15/06/2021 13:07:04	13	1167,0	F1
15/06/2021 13:07:05	14	1327,0	F1
15/06/2021 13:07:32	15	1056,0	F1
15/06/2021 13:07:33	16	847,0	F1
15/06/2021 13:07:34	17	1093,0	F1
15/06/2021 13:07:35	18	808,0	F1
15/06/2021 13:07:36	19	537,0	F1
15/06/2021 13:07:37	20	896,0	F1
15/06/2021 13:07:38	21	524,0	F1
15/06/2021 13:07:40	22	500,0	F1
15/06/2021 13:07:44	23	901,0	F1
15/06/2021 13:07:45	24	822,0	F1
15/06/2021 13:07:46	25	694,0	F1
15/06/2021 13:07:47	26	649,0	F1
15/06/2021 13:07:49	27	644,0	F1
15/06/2021 13:07:50	28	568,0	F1
15/06/2021 13:08:03	29	745,0	F1
15/06/2021 13:08:04	30	811,0	F1
15/06/2021 13:08:05	31	856,0	F1
15/06/2021 13:08:06	32	961,0	F1
15/06/2021 13:08:08	33	515,0	F1
15/06/2021 13:08:09	34	765,0	F1
15/06/2021 13:08:10	35	627,0	F1
15/06/2021 13:08:14	36	698,0	F1
15/06/2021 13:08:15	37	644,0	F1
15/06/2021 13:08:17	38	601,0	F1
15/06/2021 13:08:26	39	616,0	F1
15/06/2021 13:08:27	40	745,0	F1
15/06/2021 13:08:28	41	963,0	F1
15/06/2021 13:08:30	42	776,0	F1
15/06/2021 13:08:31	43	677,0	F1
15/06/2021 13:08:32	44	564,0	F1
15/06/2021 13:08:56	45	640,0	F1
15/06/2021 13:08:57	46	615,0	F1
15/06/2021 13:09:03	47	688,0	F1
15/06/2021 13:09:05	48	713,0	F1
15/06/2021 13:09:06	49	885,0	F1
15/06/2021 13:09:07	50	672,0	F1

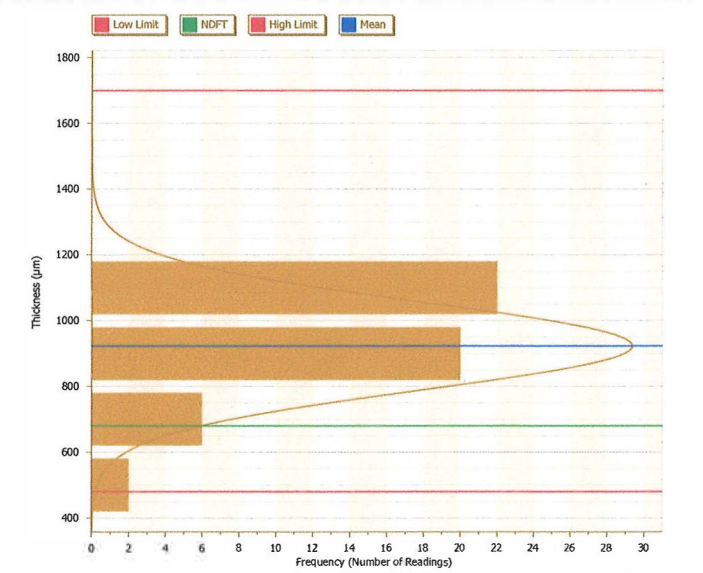
Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP13 (M3) Done\FG Done\
3rd Layer VS1

Individuals / Run Chart



Histogram



Notes

1. DFTs have been measured in accordance with ISO 19840 i.e. 4 point measurements.
2. Daily adjustments of gauges carried out using foil set 151-783.

Project Name	25220 HKZ
Gauge Type	Elcometer 456/4
Gauge Serial #	UB12297
Probe Type	F2
Probe Serial #	VA07726
Calibration Method	Zero Offset
Calibration Type	F1
Calibration Date	16/06/2021 16:33
Calibration Thick Foil	725,0
Calibration Thin Foil	0,0
Calibration Offset	25,0 µm
Batch Type	Thickness
Batch Name in Gauge	Batch
Batch User ID	3rd Layer VS1
Batch Created Date	16/06/2021 16:33:34
Batch Updated Date	16/06/2021 16:33:34
Batch First Reading Date	16/06/2021 16:33:46
Batch Last Reading Date	16/06/2021 16:35:12

Statistics			
# Readings			50
Mean			922,80 µm
Maximum			1075,0 µm
Minimum			569,0 µm
Standard Deviation (σ)			135,14 µm
Mean + 3σ			1328,21 µm
Mean - 3σ			517,39 µm
Coefficient of Variation			14,6%
# Readings < NDFT			4 (8,0%)
# Readings >= NDFT			46 (92,0%)
Limits			
High Limit	1700,0 µm	# Readings Above	0 (0,0%)
Low Limit	480,0 µm	# Readings Below	0 (0,0%)
NDFT	680,0 µm		

Inspection Report - Dry Film Thickness

25220 HKZ\EWP\EWP13 (M3) Done\FG Done\
3rd Layer VS1

Date & Time	#	Thickness	Type
16/06/2021 16:33:46	1	698,0	F1
16/06/2021 16:33:47	2	695,0	F1
16/06/2021 16:33:50	3	640,0	F1
16/06/2021 16:33:51	4	594,0	F1
16/06/2021 16:33:52	5	882,0	F1
16/06/2021 16:33:53	6	911,0	F1
16/06/2021 16:33:54	7	608,0	F1
16/06/2021 16:33:55	8	896,0	F1
16/06/2021 16:33:56	9	971,0	F1
16/06/2021 16:33:57	10	837,0	F1
16/06/2021 16:33:58	11	756,0	F1
16/06/2021 16:33:59	12	1011,0	F1
16/06/2021 16:34:00	13	1075,0	F1
16/06/2021 16:34:01	14	1062,0	F1
16/06/2021 16:34:02	15	871,0	F1
16/06/2021 16:34:03	16	1022,0	F1
16/06/2021 16:34:04	17	569,0	F1
16/06/2021 16:34:05	18	818,0	F1
16/06/2021 16:34:06	19	881,0	F1
16/06/2021 16:34:07	20	1021,0	F1
16/06/2021 16:34:09	21	1037,0	F1
16/06/2021 16:34:10	22	997,0	F1
16/06/2021 16:34:12	23	1036,0	F1
16/06/2021 16:34:13	24	1015,0	F1
16/06/2021 16:34:15	25	1026,0	F1
16/06/2021 16:34:16	26	889,0	F1
16/06/2021 16:34:17	27	923,0	F1
16/06/2021 16:34:18	28	1056,0	F1
16/06/2021 16:34:20	29	765,0	F1
16/06/2021 16:34:21	30	909,0	F1
16/06/2021 16:34:22	31	997,0	F1
16/06/2021 16:34:23	32	1063,0	F1
16/06/2021 16:34:26	33	894,0	F1
16/06/2021 16:34:27	34	1025,0	F1
16/06/2021 16:34:28	35	1014,0	F1
16/06/2021 16:34:29	36	1012,0	F1
16/06/2021 16:34:30	37	863,0	F1
16/06/2021 16:34:32	38	1000,0	F1
16/06/2021 16:34:32	39	1040,0	F1
16/06/2021 16:34:34	40	881,0	F1
16/06/2021 16:34:35	41	1009,0	F1
16/06/2021 16:34:37	42	906,0	F1
16/06/2021 16:34:38	43	903,0	F1
16/06/2021 16:34:51	44	1032,0	F1
16/06/2021 16:34:52	45	997,0	F1
16/06/2021 16:35:01	46	1043,0	F1
16/06/2021 16:35:02	47	1039,0	F1
16/06/2021 16:35:03	48	879,0	F1
16/06/2021 16:35:11	49	1008,0	F1
16/06/2021 16:35:12	50	1064,0	F1