

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1:136 P.FW FM1 P t12 PB ml**

3

4 WPS-Reference: **AS-WPS-15-06 Rev.1** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Lang, Guoqiang (W1)**

7 Identification: **410223198402203512**

8 Method of Identification: **ID card**

9 Date and place of birth: **1984-2-20 in Nanchao Town, Yushi County, Henan Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PB**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703093**

| 13 | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | FW | FW |
| 17 Material group(s): | 1,2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | ≥ 3.00 |
| Deposited thickness | --- | |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PB | PA, PB |
| 24 Weld details: | ml | sl, ml |

25 Additional information is available on attached sheet and / or WPS

| 26 | Type of test | Performed and accepted |
|----|-------------------------|------------------------|
| 27 | | |
| 30 | Visual testing | X |
| 33 | Macroscopic examination | X |
| | | |
| | | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1057**

Examiner: **Tullock Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P FW FM1 P t12 PB ml**

3

4 WPS - Reference: **AS-WPS-15-06 Rev.1** Reference No.: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Xu, Li (W3)**

7 Identification: **370826198908024633**

8 Method of Identification: **ID card**

9 Date and place of birth: **1989-8-2 in Liu Zhuang Town, Weishan County, Shandong Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PB**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No.: **SHM20230703098**

| 13 | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | FW | FW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | ≥ 3.00 |
| Deposited thickness | --- | |
| 22 Outside pipe diameter: (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PB | PA, PB |
| 24 Weld details: | ml | sl, ml |

25 Additional information is available on attached sheet and / or WPS

| 26 | Type of test | Performed and accepted |
|----|-------------------------|------------------------|
| 27 | | |
| 30 | Visual testing | X |
| 33 | Macroscopic examination | X |
| | | |
| | | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1058**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**

37 *) Append separate sheet, if required.

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P FW FM1 P.t12 PB ml**

3

4 WPS - Reference: **AS-WPS-15-06 Rev.1** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Li, Gaozun (W5)**

7 Identification: **52262719690911301X**

8 Method of Identification: **ID card**

9 Date and place of birth: **1969-9-11 in Wengdong Town, Tianzhu County, Gulzhou Province**

10 Employer: **Zhejiang Jiangan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**
 Comments: **rot. tube with D >= 76 mm for PA, PB**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703100**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | FW | FW |
| 17 Material group(s): | 1.2 | |
| 18 Filler material group(s): | FM1 | FM1, FM2 |
| 19 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 20 Shielding gas: | C1 | Similar shielding gas |
| 21 Auxiliaries / Flux: | | |
| 22 Type of current and polarity: | ==+ | --- |
| 23 Material thickness (mm): | 12.00 | ≥ 3.00 |
| 24 Deposited thickness: | --- | |
| 25 Outside pipe diameter (mm): | --- | ≥ 500.00 |
| 26 Welding position(s): | PB | PA, PB |
| 27 Weld details: | ml | sl, ml |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|----------------------------|------------------------|
| 26 Visual testing | X |
| 30 Macroscopic examination | X |
| 33 | |
| | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1059**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P FW FM1 P t12 PF ml**

3

4 WPS - Reference: **AS-WPS-15-06 Rev.1** Reference No: **244528623**

5 Document No.: (if applicable):

6 Welder's Name: **Li, Gaozun (W5)**

7 Identification: **52262719690911301X**

8 Method of Identification: **ID card**

9 Date and place of birth: **1969-9-11 in Wengdong Town, Tianzhu County, Guizhou Province**

10 Employer: **Zhejiang Jiangan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PB**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703111**

| 13 | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | FW | FW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | ==+ | --- |
| 21 Material thickness (mm): | 12,00 | ≥ 3,00 |
| Deposited thickness: | --- | |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500,00 |
| 23 Welding position(s): | PF | PA, PB, PF |
| 24 Weld details: | ml | sl, ml |

25 Additional information is available on attached sheet and / or WPS.

| 26 | Type of test | Performed and accepted |
|----|-------------------------|------------------------|
| 27 | | |
| 30 | Visual testing | X |
| 33 | Macroscopic examination | X |
| | | |
| | | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1060**

Examiner: **Tullock Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**

37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

Welder's qualification test certificate

2. Designation: **EN ISO 9606-1 136 P FW FM1 P t12 PB ml**

3.

4. WPS - Reference: **AS-WPS-15-06 Rev.1** Reference No: **244528623**

5. Document No. (if applicable):

6. Welder's Name: **Zhu, Xinfang (W14)**

7. Identification: **41272919711115141X**

8. Method of Identification: **ID card**

9. Date and place of birth: **1971-11-15 in Fanji Town, Xiangcheng City, Henan Province**

10. Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11. Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PB**



Supplementary fillet weld test: **no**

12. Job knowledge: **Accepted** Test-No: **SHM20230703116**

| | Test piece | Range of qualification |
|------------------------------------|------------|------------------------|
| 14. Welding process(es): | 136 | 136 |
| 15. Product type (plate or pipe): | P | P, T |
| 16. Type of weld: | FW | FW |
| 17. Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18. Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19. Shielding gas: | C1 | Similar shielding gas |
| 20. Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21. Material thickness (mm): | 12.00 | ≥ 3.00 |
| Deposited thickness | --- | |
| 22. Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23. Welding position(s): | PB | PA, PB |
| 24. Weld details: | ml | sl, ml |

25. Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-----------------------------|------------------------|
| 30. Visual testing | X |
| 33. Macroscopic examination | X |
| | |
| | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1061**

Examiner: **Tullock Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**

37. *) Append separate sheet, if required

38. Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P FW FM1 P t12 PB ml**

3

4 WPS - Reference: **AS-WPS-15-06 Rev.1** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Yan, Songhua (W15)**

7 Identification: **321088197204264674**

8 Method of Identification: **ID card**

9 Date and place of birth: **1972-4-26 in Wujian Town, Jiangdou City, Jiangsu Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PB**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703117**

| 13 | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | FW | FW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | == | --- |
| 21 Material thickness (mm): | 12.00 | ≥ 3.00 |
| Deposited thickness | --- | |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PB | PA, PB |
| 24 Weld details: | ml | sl, ml |

25 Additional information is available on attached sheet and / or WPS

| 26 | Type of test | Performed and accepted |
|----|-------------------------|------------------------|
| 27 | | |
| 30 | Visual testing | X |
| 33 | Macroscopic examination | X |
| | | |
| | | |
| | | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1062**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-17**

Validity of qualification: **2025-7-10**

37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P FW FM1 P t12 PB ml**

3

4 WPS - Reference: **AS-WPS-15-06 Rev.1** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Tian, Yunzhong (W16)**

7 Identification: **510902197808051171**

8 Method of Identification: **ID card**

9 Date and place of birth: **1978-8-5 in Yufeng Town, Suining City, Sichuan Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PB**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703118**

| | Test piece N | Range of qualification |
|-----------------------------------|--------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | FW | FW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | +- | --- |
| 21 Material thickness (mm): | 12.00 | ≥ 3.00 |
| Deposited thickness | --- | |
| 22 Outside pipe diameter: (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PB | PA, PB |
| 24 Weld details: | ml | sl, ml |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-------------------------------|------------------------|
| 30 Visual testing | X |
| 33 Macroscopic examination UB | X |
| | |
| | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1063**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

4 WPS - Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Lang, Guoqiang (W1)**

7 Identification: **410223198402203512**

8 Method of Identification: **ID card**

9 Date and place of birth: **1984-2-20 in Nanchao Town, Yushi County, Henan Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**
 Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703094**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-------------------|------------------------|
| 30 Visual testing | X |
| 35 Bend testing | X |
| | |
| | |

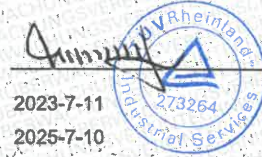
Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1064**

Examiner: **Tullock Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**

37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

4 WPS - Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Man, Zhen (W2)**

7 Identification: **37082619900102463X**

8 Method of Identification: **ID card**

9 Date and place of birth: **1990-1-2 in Liu Zhuang Town, Weishan County, Shandong Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703097**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| | |
|-------------------|------------------------|
| 26 Type of test | Performed and accepted |
| 30 Visual testing | X |
| 35 Bend testing | X |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1065**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**



37 *) Append separate sheet, if required

Signature / Stamp: [Signature]

Date of welding: **2023-7-17**

Validity of qualification: **2025-7-10**

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b) Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title | Date | Signature | Position or Title |
|------|-----------|-------------------|------|-----------|-------------------|
| | | | | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

4 WPS - Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Li, Gaozun (W5)**

7 Identification: **52262719690911301X**

8 Method of Identification: **ID card**

9 Date and place of birth: **1969-9-11 in Wengdong Town, Tianzhu County, Guizhou Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703101**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity: | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-------------------|------------------------|
| 26 Visual testing | X |
| 30 Bend testing | X |
| 35 | |
| | |
| | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1066**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

3

4 WPS - Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Man, Zaili (W6)**

7 Identification: **370826198308014618**

8 Method of Identification: **ID card**

9 Date and place of birth: **1983-8-1 in Liu Zhuang Town, Weishan County, Shandong Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**
Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703104**

| 13 | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity: | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| 26 | Type of test | Performed and accepted |
|----|----------------|------------------------|
| 30 | Visual testing | X |
| 35 | Bend testing | X |
| | | |
| | | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1067**

Examiner: **Tullock Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:

Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b) Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

3

4 WPS Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Zhao, Lianbing (W9)**

7 Identification: **370481198611103851**

8 Method of Identification: **ID card**

9 Date and place of birth: **1986-11-10 in Jisuo Town, Tengzhou City, Shandong Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703107**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter: (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-------------------|------------------------|
| 26 Visual testing | X |
| 27 Bend testing | X |
| 30 | |
| 35 | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1068**

Examiner: **Tullock Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**

37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

3

4 WPS - Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Zhang, Chen (W8)**

7 Identification: **412726198810234113**

8 Method of Identification: **ID card**

9 Date and place of birth: **1988-10-23 in Shuanglou Town, Dancheng County, Henan Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rof. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703106**

| 13 | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| 26 | Type of test | Performed and accepted |
|----|----------------|------------------------|
| 27 | Visual testing | X |
| 30 | Bend testing | X |
| 35 | | |
| | | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1069**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

| 39 | Date | Signature | Position or Title |
|----|------|-----------|-------------------|
| | | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

4 WPS - Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Zhang, Xiaotao (W10)**

7 Identification: **412726197906274158**

8 Method of Identification: **ID card**

9 Date and place of birth: **1979-6-27 in Shuanglou Town, Dancheng County, Henan Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**
Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703109**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-------------------|------------------------|
| 30 Visual testing | X |
| 35 Bend testing | X |
| | |
| | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1070**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



37 *) Append separate sheet, if required

Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

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Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

4 WPS Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Li, Xianjun (W11)**

7 Identification: **410522198302102415**

8 Method of Identification: **ID card**

9 Date and place of birth: **1983-2-10 in Qugou Town, Anyang County, Henan Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703112**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-------------------|------------------------|
| 30 Visual testing | X |
| 35 Bend testing | X |
| | |
| | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1071**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38 Prolongation for approval by examine or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |

Welder's qualification test certificate

2 Designation: **EN ISO 9606-1 136 P BW FM1 P s12 PC bs**

3

4 WPS - Reference: **AS-WPS-22-04 Rev.0** Reference No: **244528623**

5 Document No. (if applicable):

6 Welder's Name: **Li, Jing (W12)**

7 Identification: **410222198602080514**

8 Method of Identification: **ID card**

9 Date and place of birth: **1986-2-8 in Chengguan Town, Tongxu County, Henan Province**

10 Employer: **Zhejiang Jiangnan Steel Structure Co., Ltd.**

11 Code / Testing Standard: **DIN EN ISO 9606-1:2017**

Comments: **rot. tube with D >= 75 mm for PA, PC**



Supplementary fillet weld test: **no**

12 Job knowledge: **Accepted** Test-No: **SHM20230703114**

| | Test piece | Range of qualification |
|-----------------------------------|------------|------------------------|
| 14 Welding process(es): | 136 | 136 |
| 15 Product type (plate or pipe): | P | P, T |
| 16 Type of weld: | BW | BW |
| 17 Material group(s): | 1.2 | |
| Filler material group(s) | FM1 | FM1, FM2 |
| 18 Filler material (Designation): | P | R, P, V, W, Y, Z |
| 19 Shielding gas: | C1 | Similar shielding gas |
| 20 Auxiliaries / Flux: | | |
| Type of current and polarity | =+ | --- |
| 21 Material thickness (mm): | 12.00 | |
| Deposited thickness | 12.00 | ≥ 3.00 |
| 22 Outside pipe diameter. (mm): | --- | ≥ 500.00 |
| 23 Welding position(s): | PC | PA, PC |
| 24 Weld details: | bs | ss mb, bs |

25 Additional information is available on attached sheet and / or WPS

| Type of test | Performed and accepted |
|-------------------|------------------------|
| 30 Visual testing | X |
| 35 Bend testing | X |
| | |
| | |

Inspecting Authority: **TÜV Rheinland Industrie Service GmbH**

Certificate No.: **01 220 TRCHN-S102/S-23 1072**

Examiner: **Tulloch Tian**

Place / Date: **Shanghai, 2023-7-17**

Signature / Stamp:



Date of welding: **2023-7-11**

Validity of qualification: **2025-7-10**



37 *) Append separate sheet, if required

38. Prolongation for approval by examinee or examining body for the following 2 years (refer to 9.3b)

Confirmation of the validity by welding coordinator / examiner or examining body for the following 6 month (refer to 9.2)

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |
| | | |

| Date | Signature | Position or Title |
|------|-----------|-------------------|
| | | |
| | | |