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|  Plant 10 | Inspection Document EN 10204 Prüfbescheinigung | Hilti Operaciones de México MX-87316 MATAMOROS México Tel: +52 868 810 86 60 |
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| Document No. Dokument Nr. MTM-027 |
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Type of Inspection Document/Typ der Prüfbescheinigung

| | |
|---|----------|
| Test report/Werkszeugnis | 2.2 ✓ |
| Inspection certificate/Abnahmeprüfzeugnis | 3.1 |

| Item-Nr. | Product designation | Customer ref. -Nr. | Batch-Nr. | Quantity |
|-----------|---------------------------------|--------------------|----------------|----------|
| Sach-Nr. | Produktbezeichnung | Kunden Ref. Nr. | Charge/Los Nr. | Menge |
| Code art. | Référence produit | No. ref. de client | Commande No. | Quantité |
| 385468 | HAS Anchor Rod R 304 5/8" x 10" | | | |
| | | | | |
| | | | | |

Remarks/Bemerkungen/Remarques

We herewith certify, that the material described above complies with the terms of the order.

Hiermit bestätigen wir, dass die oben angeführte Lieferung den Vereinbarungen bei der Bestellung entspricht.

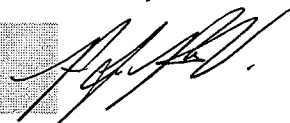
Nous certifions que la livraison est conforme aux stipulations de la commande.

El acero usado para hacer las varillas fue procesado y manufacturado en Italia.

The steel used to make the rods was melted and manufactured in Italy.

Issuer/Aussteller
Department/Bereich
Contact/Kontakt

Javier Pena Villalobos
P10Q Anchors Supply
52 868-8108665



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Date/Datum: 01/26/2013



Plant 10

Inspection Document
EN 10204
Prüfbescheinigung

Hilti Operaciones de México
MX-87316 MATAMOROS
México
Tel: +52 868 810 86 60

Document No. Dokument Nr.

MTM-027

| Item-Nr. | Product designation | Customer ref. -Nr. | Batch-Nr. | Quantity |
|-----------|--------------------------------|--------------------|----------------|----------|
| Sach-Nr. | Produktbezeichnung | Kunden Ref. Nr. | Charge/Los Nr. | Menge |
| Code art. | Référence produit | No. ref. de client | Commande No. | Quantité |
| 385468 | HAS Anchor Rod R 304 5/8"x 10" | 0 | 0 | 0 |

| | | | | | | |
|--|--|-----|--------|-----|--|--|
| Item designation Sachbezeichnung Reference composant | | Rod | Washer | Nut | | |
|--|--|-----|--------|-----|--|--|

Inspection values/Prüfergebnisse

| Chemical composition | | set value | actual value | set value | actual value | set value | actual value | set value | actual value | set value | actual value |
|--------------------------------------|----|--|--------------|-----------|--------------|-------------------|-------------------|---|--------------|-----------|--------------|
| Chem. Zusammensetzung | | | | | | | | | | | |
| C % | | ≤ 0.08 | 0.02 | max.0.070 | 0.041 | max.0.080 | 0.043 | | | | |
| Si % | | 1.0 max | 0.36 | max.0.75 | 0.33 | max.1.0 | 0.37 | | | | |
| Mn % | | ≤ 2.0 | 1.32 | max.2.0 | 1.69 | max.2.0 | 1.81 | | | | |
| P % | | 0.045 max | 0.035 | max.0.045 | 0.035 | max.0.045 | 0.035 | | | | |
| S % | | 0.030 max | 0.028 | max.0.030 | 0.004 | max.0.030 | 0.014 | | | | |
| Cr % | | 18-20 | 18.15 | 17.5-19.5 | 18.19 | 18-20 | 18.23 | | | | |
| Mo % | | | | | | | | | | | |
| Ni % | | 8-10.5 | 8.2 | 8-10.5 | 8.13 | 8-10.5 | 8.07 | | | | |
| Cu % | | | | | | | | | | | |
| B % | | | | | | | | | | | |
| Al % | | | | | | | | | | | |
| N % | | 0.10 max | 0.084 | | | | | | | | |
| V % | | | | | | | | | | | |
| Mech. properties | | | | | | | | | | | |
| Mechanische Eigensch. / Mecan. prop. | | | | | | | | | | | |
| N | | | | | | | | | | | |
| V | | | | | | | | | | | |
| Fp | | | | | | 100570 | 121000 | | | | |
| HV | | | | max.95 | 84 | | | | | | |
| A | | | | | | | | | | | |
| Z | | >20 | 57-59 | | | | | | | | |
| R _{p0.2} | | min.450 | 728-730 | | | | | | | | |
| R _m | | 650-1030 | 814-819 | | | | | | | | |
| Layer thickness/Schichtdicke | | | | | | | | | | | |
| Epaisseur de couche extérieure | | | | | | | | | | | |
| d (Zn) | | | | | | | | | | | |
| N | kN | Tension load / Bruchlast Zug / charge de tension | | | | Z | % | Reduction of area / Einschnürung / contraction | | | |
| V | kN | Shear load / Querlast / charge de cisaillement | | | | R _{p0.2} | N/mm ² | Yield strength / Streckgrenze / limite d'élasticité conventionelle | | | |
| F _p | N | Proof load / Prüfkraft / charge limite | | | | R _m | N/mm ² | Ultimate tensile strength / Zugfestigkeit / resistance a la traction | | | |
| HV | - | Vickers hardness / Härte Vickers / dureté Vickers | | | | d (Zn) | µm | Mean zinc thickness/ mittlere Schichtdicke Zn / epaisseur de couche de Zn | | | |
| A | % | Elongation after fracture / Bruchdehnung / elongation apres fracture | | | | | | | | | |