VALENTE 100 SPA SINCE 1919
One hundred years of reliability

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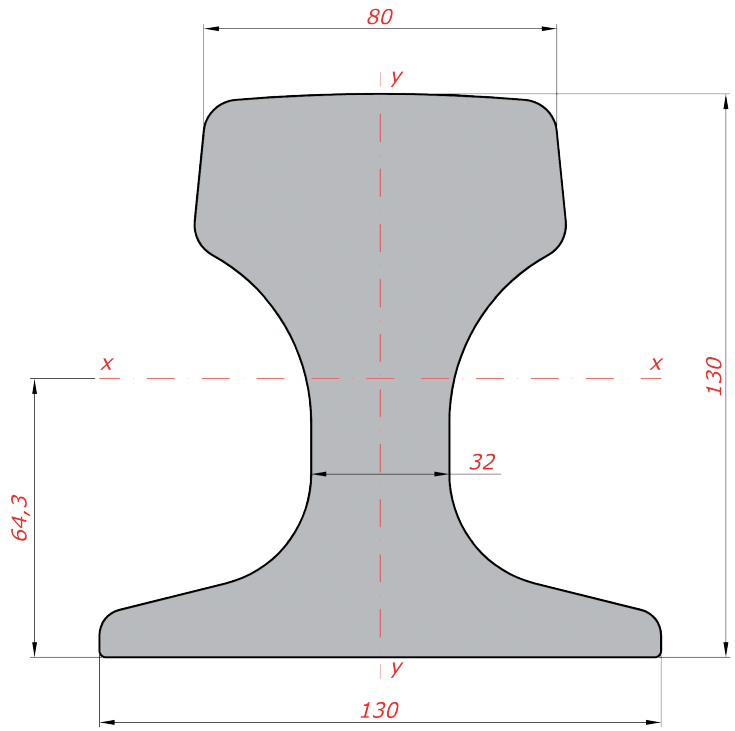
**ISO 9001:2015 Certified**

# CRANE RAILS
# RAIL QU80




| | | |
|---|---|---|
| **MASS** | 63.69 | [Kg/m] |
| **AREA** | 81.13 | [cm²] |
| **MOMENT OF INERTIA X-X** | 1547.4 | [cm⁴] |
| **MOMENT OF INERTIA Y-Y** | 482.39 | [cm⁴] |
| **SECTION MODULUS X-X – HEAD** | 235.52 | [cm³] |
| **SECTION MODULUS X-X – BASE** | 240.65 | [cm³] |
| **SECTION MODULUS Y-Y** | 74.21 | [cm³] |

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# SUITABLE FASTENING SYSTEM FOR RAIL QU80

## INDIRECT FIXING

### WITH PAD

| FASTENING SERIES | LATERAL ADJUSTMENT [mm] | SIDE LOAD [KN] | TORQUE TIGHTENING [Nm] | FASTENING SYSTEM |
|---|---|---|---|---|
| VALEX 1004 | 10 | 60 | 175 | VALEX 1004-33-22 |
| VALEX 3016 | – | – | – | – |
| VALEX 3116 | – | 90 | 175 | VALEX 3116-28-05 |
| VALEX 5016 | 10 | 70 | 150 | VALEX 5016-34-15 |
| VALEX 5020 | 14 | 140 | 275 | VALEX 5020-38-16 |
| VALEX 5024 | 20 | 190 | 500 | VALEX 5024-40-19 |
| VALEX 5116 | 10 | 165 | 150 | VALEX 5116-34-15 |
| VALEX 5120 | 14 | 250 | 275 | VALEX 5120-39-16 |
| VALEX 5124 | 20 | 300 | 500 | VALEX 5124-40-16 |
| VALEX 9022 | – | – | – | – |

### WITHOUT PAD

| FASTENING SERIES | LATERAL ADJUSTMENT [mm] | SIDE LOAD [KN] | TORQUE TIGHTENING [Nm] | FASTENING SYSTEM |
|---|---|---|---|---|
| VALEX 1004 | 10 | 60 | 175 | VALEX 1004-29-18 |
| VALEX 3016 | – | 65 | 175 | VALEX 3016-28-12 |
| VALEX 3116 | – | 90 | 175 | VALEX 3116-28-12 |
| VALEX 5016 | 10 | 70 | 150 | VALEX 5016-34-08 |
| VALEX 5020 | 14 | 140 | 275 | VALEX 5020-38-09 |
| VALEX 5024 | 20 | 190 | 500 | VALEX 5024-42-13 |
| VALEX 5116 | 10 | 165 | 150 | VALEX 5116-34-08 |
| VALEX 5120 | 14 | 250 | 275 | VALEX 5120-39-09 |
| VALEX 5124 | 20 | 300 | 500 | VALEX 5124-40-11 |
| VALEX 9022 | – | – | – | – |

## DIRECT FIXING

| FASTENING SERIES | LATERAL ADJUSTMENT [mm] | SIDE LOAD [KN] | TORQUE TIGHTENING [Nm] | FASTENING SYSTEM |
|---|---|---|---|---|
| VALEX 2012 | – | – | – | – |
| VALEX 2016 | – | – | – | – |
| VALEX 2020 | 15 | 110 | 320 | VALEX 2020-35-15 |
| VALEX 2024 | 15 | 160 | 550 | VALEX 2024-42-13 |
| VALEX 2124 | 15 | 290 | 550 | VALEX 2124-42-13 |
| VALEX 4018 | – | – | – | – |
| VALEX 4021 | – | – | – | – |
| VALEX 4023 | – | – | – | – |
| VALEX 4025 | – | – | – | – |
| VALEX 4028 | – | 95 | 550 | VALEX 4028 |
| VALEX 6024 | – | – | – | – |
| VALEX 7020 | 10 | 90 | 320 | VALEX 7020-40-15 |
| VALEX F036 | – | – | – | – |
| VALEX F046 | – | – | – | – |
| VALEX F050 | – | – | – | – |
| VALEX F060 | – | 85 | 550 | VALEX F060 |
| VALEX D510 | – | – | – | – |
| VALEX D614 | – | – | – | – |
| VALEX D820 | – | – | – | – |

| FASTENING SERIES | LATERAL ADJUSTMENT [mm] | SIDE LOAD [KN] | TORQUE TIGHTENING [Nm] | FASTENING SYSTEM |
|---|---|---|---|---|
| VALEX 2012 | 5 | 30 | 75 | VALEX 2012-31-10 |
| VALEX 2016 | 10 | 55 | 175 | VALEX 2016-32-10 |
| VALEX 2020 | 15 | 110 | 320 | VALEX 2020-35-08 |
| VALEX 2024 | 15 | 160 | 550 | VALEX 2024-42-09 |
| VALEX 2124 | 15 | 290 | 550 | VALEX 2124-42-09 |
| VALEX 4018 | – | – | – | – |
| VALEX 4021 | – | – | – | – |
| VALEX 4023 | – | – | – | – |
| VALEX 4025 | – | – | – | – |
| VALEX 4028 | – | – | – | – |
| VALEX 6024 | – | – | – | – |
| VALEX 7020 | 10 | 90 | 320 | VALEX 7020-40-10 |
| VALEX F036 | – | 80 | – | VALEX F036 |
| VALEX F046 | – | 70 | 320 | VALEX F046 |
| VALEX F050 | – | – | – | – |
| VALEX F060 | – | 85 | 550 | VALEX F060 |
| VALEX D510 | – | – | – | – |
| VALEX D614 | – | – | – | – |
| VALEX D820 | – | – | – | – |