



Offshore crane



Piling crane



Mobile port crane



## Verope Steel Wire Rope Verotop P

### Product information



**Wire rope construction:** Verotop P is a rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.

**Features:**

- Very high breaking strength.
- Provides a very stable rope structure and achieves excellent bending fatigue results.
- Offers excellent crushing and very good abrasion resistance.
- Possesses perfect spooling behavior on multilayer drum.

**ISO 4309 Rope Category No:** All Diameters **RCN.23-3.**

**Marking:** According to standard

**Standard:** EN 12385-4

**Note:** verotop P can be used either with or without swivel.

**Fill factor:** 0.73

**RCN:** 23-3

**Tolerance Ø:** +2% to +4%

Part code	Rope diameter mm	Tensile strength N/mm <sup>2</sup>	Finish	Rope lay	Min. breaking force kN	Steel area mm <sup>2</sup>	Lubrication	Weight lb
104101606270149	16	1,960	Galvanized	zZ	241.7	147	SupplierStandard	2.76
104101606070149	16	1,960	Bright	zZ	241.7	147	SupplierStandard	2.76
104101605070149	16	1,960	Bright	sS	241.7	147	SupplierStandard	2.76
104101605270149	16	1,960	Galvanized	sS	241.7	147	SupplierStandard	2.76

104101603070149	16	1,960	Bright	zS	241.7	147	SupplierStandard	2.76
104101603270149	16	1,960	Galvanized	zS	241.7	147	SupplierStandard	2.76
104101604070149	16	1,960	Bright	sZ	241.7	147	SupplierStandard	2.76
104101604270149	16	1,960	Galvanized	sZ	241.7	147	SupplierStandard	2.76
104101606300149	16	2,160	Galvanized	zZ	252.7	147	SupplierStandard	2.76
104101606100149	16	2,160	Bright	zZ	252.7	147	SupplierStandard	2.76
104101605100149	16	2,160	Bright	sS	252.7	147	SupplierStandard	2.76
104101605300149	16	2,160	Galvanized	sS	252.7	147	SupplierStandard	2.76
104101603100149	16	2,160	Bright	zS	252.7	147	SupplierStandard	2.76
104101603300149	16	2,160	Galvanized	zS	252.7	147	SupplierStandard	2.76
104101604100149	16	2,160	Bright	sZ	252.7	147	SupplierStandard	2.76
104101604300149	16	2,160	Galvanized	sZ	252.7	147	SupplierStandard	2.76
104101706270149	17	1,960	Galvanized	zZ	272.8	166	SupplierStandard	3.11
104101706070149	17	1,960	Bright	zZ	272.8	166	SupplierStandard	3.11
104101705070149	17	1,960	Bright	sS	272.8	166	SupplierStandard	3.11
104101705270149	17	1,960	Galvanized	sS	272.8	166	SupplierStandard	3.11
104101703070149	17	1,960	Bright	zS	272.8	166	SupplierStandard	3.11
104101703270149	17	1,960	Galvanized	zS	272.8	166	SupplierStandard	3.11
104101704070149	17	1,960	Bright	sZ	272.8	166	SupplierStandard	3.11
104101704270149	17	1,960	Galvanized	sZ	272.8	166	SupplierStandard	3.11
104101706300149	17	2,160	Galvanized	zZ	285.3	166	SupplierStandard	3.11
104101706100149	17	2,160	Bright	zZ	285.3	166	SupplierStandard	3.11
104101705100149	17	2,160	Bright	sS	285.3	166	SupplierStandard	3.11

104101705300149	17	2,160	Galvanized	sS	285.3	166	SupplierStandard	3.11
104101703100149	17	2,160	Bright	zS	285.3	166	SupplierStandard	3.11
104101703300149	17	2,160	Galvanized	zS	285.3	166	SupplierStandard	3.11
104101704100149	17	2,160	Bright	sZ	285.3	166	SupplierStandard	3.11
104101704300149	17	2,160	Galvanized	sZ	285.3	166	SupplierStandard	3.11
104101806270149	18	1,960	Galvanized	zZ	305.8	186	SupplierStandard	3.48
104101806070149	18	1,960	Bright	zZ	305.8	186	SupplierStandard	3.48
104101805070149	18	1,960	Bright	sS	305.8	186	SupplierStandard	3.48
104101805270149	18	1,960	Galvanized	sS	305.8	186	SupplierStandard	3.48
104101803070149	18	1,960	Bright	zS	305.8	186	SupplierStandard	3.48
104101803270149	18	1,960	Galvanized	zS	305.8	186	SupplierStandard	3.48
104101804070149	18	1,960	Bright	sZ	305.8	186	SupplierStandard	3.48
104101804270149	18	1,960	Galvanized	sZ	305.8	186	SupplierStandard	3.48
104101806300149	18	2,160	Galvanized	zZ	319.8	186	SupplierStandard	3.48
104101806100149	18	2,160	Bright	zZ	319.8	186	SupplierStandard	3.48
104101805100149	18	2,160	Bright	sS	319.8	186	SupplierStandard	3.48
104101805300149	18	2,160	Galvanized	sS	319.8	186	SupplierStandard	3.48
104101803100149	18	2,160	Bright	zS	319.8	186	SupplierStandard	3.48
104101803300149	18	2,160	Galvanized	zS	319.8	186	SupplierStandard	3.48
104101804100149	18	2,160	Bright	sZ	319.8	186	SupplierStandard	3.48
104101804300149	18	2,160	Galvanized	sZ	319.8	186	SupplierStandard	3.48
104101906270149	19	1,960	Galvanized	zZ	340.8	207	SupplierStandard	3.88
104101906070149	19	1,960	Bright	zZ	340.8	207	SupplierStandard	3.88

104101905070149	19	1,960	Bright	sS	340.8	207	SupplierStandard	3.88
104101905270149	19	1,960	Galvanized	sS	340.8	207	SupplierStandard	3.88
104101903070149	19	1,960	Bright	zS	340.8	207	SupplierStandard	3.88
104101903270149	19	1,960	Galvanized	zS	340.8	207	SupplierStandard	3.88
104101904070149	19	1,960	Bright	sZ	340.8	207	SupplierStandard	3.88
104101904270149	19	1,960	Galvanized	sZ	340.8	207	SupplierStandard	3.88
104101906300149	19	2,160	Galvanized	zZ	356.3	207	SupplierStandard	3.88
104101906100149	19	2,160	Bright	zZ	356.3	207	SupplierStandard	3.88
104101905100149	19	2,160	Bright	sS	356.3	207	SupplierStandard	3.88
104101905300149	19	2,160	Galvanized	sS	356.3	207	SupplierStandard	3.88
104101903100149	19	2,160	Bright	zS	356.3	207	SupplierStandard	3.88
104101903300149	19	2,160	Galvanized	zS	356.3	207	SupplierStandard	3.88
104101904100149	19	2,160	Bright	sZ	356.3	207	SupplierStandard	3.88
104101904300149	19	2,160	Galvanized	sZ	356.3	207	SupplierStandard	3.88
104102006270149	20	1,960	Galvanized	zZ	377.6	229	SupplierStandard	4.3
104102006070149	20	1,960	Bright	zZ	377.6	229	SupplierStandard	4.3
104102005070149	20	1,960	Bright	sS	377.6	229	SupplierStandard	4.3
104102005270149	20	1,960	Galvanized	sS	377.6	229	SupplierStandard	4.3
104102003070149	20	1,960	Bright	zS	377.6	229	SupplierStandard	4.3
104102003270149	20	1,960	Galvanized	zS	377.6	229	SupplierStandard	4.3
104102004070149	20	1,960	Bright	sZ	377.6	229	SupplierStandard	4.3
104102004270149	20	1,960	Galvanized	sZ	377.6	229	SupplierStandard	4.3
104102006300149	20	2,160	Galvanized	zZ	394.8	229	SupplierStandard	4.3

104102006100149	20	2,160	Bright	zZ	394.8	229	SupplierStandard	4.3
104102005100149	20	2,160	Bright	sS	394.8	229	SupplierStandard	4.3
104102005300149	20	2,160	Galvanized	sS	394.8	229	SupplierStandard	4.3
104102003100149	20	2,160	Bright	zS	394.8	229	SupplierStandard	4.3
104102003300149	20	2,160	Galvanized	zS	394.8	229	SupplierStandard	4.3
104102004100149	20	2,160	Bright	sZ	394.8	229	SupplierStandard	4.3
104102004300149	20	2,160	Galvanized	sZ	394.8	229	SupplierStandard	4.3
104102106270149	21	1,960	Galvanized	zZ	416.3	253	SupplierStandard	4.74
104102106070149	21	1,960	Bright	zZ	416.3	253	SupplierStandard	4.74
104102105070149	21	1,960	Bright	sS	416.3	253	SupplierStandard	4.74
104102105270149	21	1,960	Galvanized	sS	416.3	253	SupplierStandard	4.74
104102103070149	21	1,960	Bright	zS	416.3	253	SupplierStandard	4.74
104102103270149	21	1,960	Galvanized	zS	416.3	253	SupplierStandard	4.74
104102104070149	21	1,960	Bright	sZ	416.3	253	SupplierStandard	4.74
104102104270149	21	1,960	Galvanized	sZ	416.3	253	SupplierStandard	4.74
104102106300149	21	2,160	Galvanized	zZ	435.3	253	SupplierStandard	4.74
104102106100149	21	2,160	Bright	zZ	435.3	253	SupplierStandard	4.74
104102105100149	21	2,160	Bright	sS	435.3	253	SupplierStandard	4.74
104102105300149	21	2,160	Galvanized	sS	435.3	253	SupplierStandard	4.74
104102103100149	21	2,160	Bright	zS	435.3	253	SupplierStandard	4.74
104102103300149	21	2,160	Galvanized	zS	435.3	253	SupplierStandard	4.74
104102104100149	21	2,160	Bright	sZ	435.3	253	SupplierStandard	4.74
104102104300149	21	2,160	Galvanized	sZ	435.3	253	SupplierStandard	4.74

104102206270149	22	1,960	Galvanized	zZ	456.9	277	SupplierStandard	5.2
104102206070149	22	1,960	Bright	zZ	456.9	277	SupplierStandard	5.2
104102205070149	22	1,960	Bright	sS	456.9	277	SupplierStandard	5.2
104102205270149	22	1,960	Galvanized	sS	456.9	277	SupplierStandard	5.2
104102203070149	22	1,960	Bright	zS	456.9	277	SupplierStandard	5.2
104102203270149	22	1,960	Galvanized	zS	456.9	277	SupplierStandard	5.2
104102204070149	22	1,960	Bright	sZ	456.9	277	SupplierStandard	5.2
104102204270149	22	1,960	Galvanized	sZ	456.9	277	SupplierStandard	5.2
104102206300149	22	2,160	Galvanized	zZ	477.7	277	SupplierStandard	5.2
104102206100149	22	2,160	Bright	zZ	477.7	277	SupplierStandard	5.2
104102205100149	22	2,160	Bright	sS	477.7	277	SupplierStandard	5.2
104102205300149	22	2,160	Galvanized	sS	477.7	277	SupplierStandard	5.2
104102203100149	22	2,160	Bright	zS	477.7	277	SupplierStandard	5.2
104102203300149	22	2,160	Galvanized	zS	477.7	277	SupplierStandard	5.2
104102204100149	22	2,160	Bright	sZ	477.7	277	SupplierStandard	5.2
104102204300149	22	2,160	Galvanized	sZ	477.7	277	SupplierStandard	5.2
104102246270149	22.4	1,960	Galvanized	zZ	473.6	283	SupplierStandard	5.29
104102246070149	22.4	1,960	Bright	zZ	473.6	283	SupplierStandard	5.29
104102245070149	22.4	1,960	Bright	sS	473.6	283	SupplierStandard	5.29
104102245270149	22.4	1,960	Galvanized	sS	473.6	283	SupplierStandard	5.29
104102243070149	22.4	1,960	Bright	zS	473.6	283	SupplierStandard	5.29
104102243270149	22.4	1,960	Galvanized	zS	473.6	283	SupplierStandard	5.29
104102244070149	22.4	1,960	Bright	sZ	473.6	283	SupplierStandard	5.29

104102244270149	22.4	1,960	Galvanized	sZ	473.6	283	SupplierStandard	5.29
104102246300149	22.4	2,160	Galvanized	zZ	495.3	283	SupplierStandard	5.29
104102246100149	22.4	2,160	Bright	zZ	495.3	283	SupplierStandard	5.29
104102245100149	22.4	2,160	Bright	sS	495.3	283	SupplierStandard	5.29
104102245300149	22.4	2,160	Galvanized	sS	495.3	283	SupplierStandard	5.29
104102243100149	22.4	2,160	Bright	zS	495.3	283	SupplierStandard	5.29
104102243300149	22.4	2,160	Galvanized	zS	495.3	283	SupplierStandard	5.29
104102244100149	22.4	2,160	Bright	sZ	495.3	283	SupplierStandard	5.29
104102244300149	22.4	2,160	Galvanized	sZ	495.3	283	SupplierStandard	5.29
104102306270149	23	1,960	Galvanized	zZ	499.3	303	SupplierStandard	5.69
104102306070149	23	1,960	Bright	zZ	499.3	303	SupplierStandard	5.69
104102305070149	23	1,960	Bright	sS	499.3	303	SupplierStandard	5.69
104102305270149	23	1,960	Galvanized	sS	499.3	303	SupplierStandard	5.69
104102303070149	23	1,960	Bright	zS	499.3	303	SupplierStandard	5.69
104102303270149	23	1,960	Galvanized	zS	499.3	303	SupplierStandard	5.69
104102304070149	23	1,960	Bright	sZ	499.3	303	SupplierStandard	5.69
104102304270149	23	1,960	Galvanized	sZ	499.3	303	SupplierStandard	5.69
104102306300149	23	2,160	Galvanized	zZ	522.2	303	SupplierStandard	5.69
104102306100149	23	2,160	Bright	zZ	522.2	303	SupplierStandard	5.69
104102305100149	23	2,160	Bright	sS	522.2	303	SupplierStandard	5.69
104102305300149	23	2,160	Galvanized	sS	522.2	303	SupplierStandard	5.69
104102303100149	23	2,160	Bright	zS	522.2	303	SupplierStandard	5.69
104102303300149	23	2,160	Galvanized	zS	522.2	303	SupplierStandard	5.69

104102304100149	23	2,160	Bright	sZ	522.2	303	SupplierStandard	5.69
104102304300149	23	2,160	Galvanized	sZ	522.2	303	SupplierStandard	5.69
104102406270149	24	1,960	Galvanized	zZ	543.7	330	SupplierStandard	6.19
104102406070149	24	1,960	Bright	zZ	543.7	330	SupplierStandard	6.19
104102405070149	24	1,960	Bright	sS	543.7	330	SupplierStandard	6.19
104102405270149	24	1,960	Galvanized	sS	543.7	330	SupplierStandard	6.19
104102403070149	24	1,960	Bright	zS	543.7	330	SupplierStandard	6.19
104102403270149	24	1,960	Galvanized	zS	543.7	330	SupplierStandard	6.19
104102404070149	24	1,960	Bright	sZ	543.7	330	SupplierStandard	6.19
104102404270149	24	1,960	Galvanized	sZ	543.7	330	SupplierStandard	6.19
104102406300149	24	2,160	Galvanized	zZ	568.6	330	SupplierStandard	6.19
104102406100149	24	2,160	Bright	zZ	568.6	330	SupplierStandard	6.19
104102405100149	24	2,160	Bright	sS	568.6	330	SupplierStandard	6.19
104102405300149	24	2,160	Galvanized	sS	568.6	330	SupplierStandard	6.19
104102403100149	24	2,160	Bright	zS	568.6	330	SupplierStandard	6.19
104102403300149	24	2,160	Galvanized	zS	568.6	330	SupplierStandard	6.19
104102404100149	24	2,160	Bright	sZ	568.6	330	SupplierStandard	6.19
104102404300149	24	2,160	Galvanized	sZ	568.6	330	SupplierStandard	6.19
104102506270149	25	1,960	Galvanized	zZ	590	358	SupplierStandard	6.72
104102506070149	25	1,960	Bright	zZ	590	358	SupplierStandard	6.72
104102505070149	25	1,960	Bright	sS	590	358	SupplierStandard	6.72
104102505270149	25	1,960	Galvanized	sS	590	358	SupplierStandard	6.72
104102503070149	25	1,960	Bright	zS	590	358	SupplierStandard	6.72

104102503270149	25	1,960	Galvanized	zS	590	358	SupplierStandard	6.72
104102504070149	25	1,960	Bright	sZ	590	358	SupplierStandard	6.72
104102504270149	25	1,960	Galvanized	sZ	590	358	SupplierStandard	6.72
104102506300149	25	2,160	Galvanized	zZ	616.9	358	SupplierStandard	6.72
104102506100149	25	2,160	Bright	zZ	616.9	358	SupplierStandard	6.72
104102505100149	25	2,160	Bright	sS	616.9	358	SupplierStandard	6.72
104102505300149	25	2,160	Galvanized	sS	616.9	358	SupplierStandard	6.72
104102503100149	25	2,160	Bright	zS	616.9	358	SupplierStandard	6.72
104102503300149	25	2,160	Galvanized	zS	616.9	358	SupplierStandard	6.72
104102504100149	25	2,160	Bright	sZ	616.9	358	SupplierStandard	6.72
104102504300149	25	2,160	Galvanized	sZ	616.9	358	SupplierStandard	6.72
104102546270149	25.4	1,960	Galvanized	zZ	609	370	SupplierStandard	6.92
104102546070149	25.4	1,960	Bright	zZ	609	370	SupplierStandard	6.92
104102545070149	25.4	1,960	Bright	sS	609	370	SupplierStandard	6.92
104102545270149	25.4	1,960	Galvanized	sS	609	370	SupplierStandard	6.92
104102543070149	25.4	1,960	Bright	zS	609	370	SupplierStandard	6.92
104102543270149	25.4	1,960	Galvanized	zS	609	370	SupplierStandard	6.92
104102544070149	25.4	1,960	Bright	sZ	609	370	SupplierStandard	6.92
104102544270149	25.4	1,960	Galvanized	sZ	609	370	SupplierStandard	6.92
104102546300149	25.4	2,160	Galvanized	zZ	636.8	370	SupplierStandard	6.92
104102546100149	25.4	2,160	Bright	zZ	636.8	370	SupplierStandard	6.92
104102545100149	25.4	2,160	Bright	sS	636.8	370	SupplierStandard	6.92
104102545300149	25.4	2,160	Galvanized	sS	636.8	370	SupplierStandard	6.92

104102543100149	25.4	2,160	Bright	zS	636.8	370	SupplierStandard	6.92
104102543300149	25.4	2,160	Galvanized	zS	636.8	370	SupplierStandard	6.92
104102544100149	25.4	2,160	Bright	sZ	636.8	370	SupplierStandard	6.92
104102544300149	25.4	2,160	Galvanized	sZ	636.8	370	SupplierStandard	6.92
104102606270149	26	1,960	Galvanized	zZ	638.1	388	SupplierStandard	7.25
104102606070149	26	1,960	Bright	zZ	638.1	388	SupplierStandard	7.25
104102605070149	26	1,960	Bright	sS	638.1	388	SupplierStandard	7.25
104102605270149	26	1,960	Galvanized	sS	638.1	388	SupplierStandard	7.25
104102603070149	26	1,960	Bright	zS	638.1	388	SupplierStandard	7.25
104102603270149	26	1,960	Galvanized	zS	638.1	388	SupplierStandard	7.25
104102604070149	26	1,960	Bright	sZ	638.1	388	SupplierStandard	7.25
104102604270149	26	1,960	Galvanized	sZ	638.1	388	SupplierStandard	7.25
104102606300149	26	2,160	Galvanized	zZ	667.3	388	SupplierStandard	7.25
104102606100149	26	2,160	Bright	zZ	667.3	388	SupplierStandard	7.25
104102605100149	26	2,160	Bright	sS	667.3	388	SupplierStandard	7.25
104102605300149	26	2,160	Galvanized	sS	667.3	388	SupplierStandard	7.25
104102603100149	26	2,160	Bright	zS	667.3	388	SupplierStandard	7.25
104102603300149	26	2,160	Galvanized	zS	667.3	388	SupplierStandard	7.25
104102604100149	26	2,160	Bright	sZ	667.3	388	SupplierStandard	7.25
104102604300149	26	2,160	Galvanized	sZ	667.3	388	SupplierStandard	7.25
104102706270149	27	1,960	Galvanized	zZ	688.1	418	SupplierStandard	7.83
104102706070149	27	1,960	Bright	zZ	688.1	418	SupplierStandard	7.83
104102705070149	27	1,960	Bright	sS	688.1	418	SupplierStandard	7.83

104102705270149	27	1,960	Galvanized	sS	688.1	418	SupplierStandard	7.83
104102703070149	27	1,960	Bright	zS	688.1	418	SupplierStandard	7.83
104102703270149	27	1,960	Galvanized	zS	688.1	418	SupplierStandard	7.83
104102704070149	27	1,960	Bright	sZ	688.1	418	SupplierStandard	7.83
104102704270149	27	1,960	Galvanized	sZ	688.1	418	SupplierStandard	7.83
104102706300149	27	2,160	Galvanized	zZ	719.6	418	SupplierStandard	7.83
104102706100149	27	2,160	Bright	zZ	719.6	418	SupplierStandard	7.83
104102705100149	27	2,160	Bright	sS	719.6	418	SupplierStandard	7.83
104102705300149	27	2,160	Galvanized	sS	719.6	418	SupplierStandard	7.83
104102703100149	27	2,160	Bright	zS	719.6	418	SupplierStandard	7.83
104102703300149	27	2,160	Galvanized	zS	719.6	418	SupplierStandard	7.83
104102704100149	27	2,160	Bright	sZ	719.6	418	SupplierStandard	7.83
104102704300149	27	2,160	Galvanized	sZ	719.6	418	SupplierStandard	7.83
104102806270149	28	1,960	Galvanized	zZ	740.1	449	SupplierStandard	8.42
104102806070149	28	1,960	Bright	zZ	740.1	449	SupplierStandard	8.42
104102805070149	28	1,960	Bright	sS	740.1	449	SupplierStandard	8.42
104102805270149	28	1,960	Galvanized	sS	740.1	449	SupplierStandard	8.42
104102803070149	28	1,960	Bright	zS	740.1	449	SupplierStandard	8.42
104102803270149	28	1,960	Galvanized	zS	740.1	449	SupplierStandard	8.42
104102804070149	28	1,960	Bright	sZ	740.1	449	SupplierStandard	8.42
104102804270149	28	1,960	Galvanized	sZ	740.1	449	SupplierStandard	8.42
104102806300149	28	2,160	Galvanized	zZ	773.9	449	SupplierStandard	8.42
104102806100149	28	2,160	Bright	zZ	773.9	449	SupplierStandard	8.42

104102805100149	28	2,160	Bright	sS	773.9	449	SupplierStandard	8.42
104102805300149	28	2,160	Galvanized	sS	773.9	449	SupplierStandard	8.42
104102803100149	28	2,160	Bright	zS	773.9	449	SupplierStandard	8.42
104102803300149	28	2,160	Galvanized	zS	773.9	449	SupplierStandard	8.42
104102804100149	28	2,160	Bright	sZ	773.9	449	SupplierStandard	8.42
104102804300149	28	2,160	Galvanized	sZ	773.9	449	SupplierStandard	8.42
104102866270149	28.6	1,960	Galvanized	zZ	772.1	469	SupplierStandard	8.8
104102866070149	28.6	1,960	Bright	zZ	772.1	469	SupplierStandard	8.8
104102865070149	28.6	1,960	Bright	sS	772.1	469	SupplierStandard	8.8
104102865270149	28.6	1,960	Galvanized	sS	772.1	469	SupplierStandard	8.8
104102863070149	28.6	1,960	Bright	zS	772.1	469	SupplierStandard	8.8
104102863270149	28.6	1,960	Galvanized	zS	772.1	469	SupplierStandard	8.8
104102864070149	28.6	1,960	Bright	sZ	772.1	469	SupplierStandard	8.8
104102864270149	28.6	1,960	Galvanized	sZ	772.1	469	SupplierStandard	8.8
104102866300149	28.6	2,160	Galvanized	zZ	807.4	469	SupplierStandard	8.8
104102866100149	28.6	2,160	Bright	zZ	807.4	469	SupplierStandard	8.8
104102865100149	28.6	2,160	Bright	sS	807.4	469	SupplierStandard	8.8
104102865300149	28.6	2,160	Galvanized	sS	807.4	469	SupplierStandard	8.8
104102863100149	28.6	2,160	Bright	zS	807.4	469	SupplierStandard	8.8
104102863300149	28.6	2,160	Galvanized	zS	807.4	469	SupplierStandard	8.8
104102864100149	28.6	2,160	Bright	sZ	807.4	469	SupplierStandard	8.8
104102864300149	28.6	2,160	Galvanized	sZ	807.4	469	SupplierStandard	8.8
104102906270149	29	1,960	Galvanized	zZ	793.9	482	SupplierStandard	9.04

104102906070149	29	1,960	Bright	zZ	793.9	482	SupplierStandard	9.04
104102905070149	29	1,960	Bright	sS	793.9	482	SupplierStandard	9.04
104102905270149	29	1,960	Galvanized	sS	793.9	482	SupplierStandard	9.04
104102903070149	29	1,960	Bright	zS	793.9	482	SupplierStandard	9.04
104102903270149	29	1,960	Galvanized	zS	793.9	482	SupplierStandard	9.04
104102904070149	29	1,960	Bright	sZ	793.9	482	SupplierStandard	9.04
104102904270149	29	1,960	Galvanized	sZ	793.9	482	SupplierStandard	9.04
104102906300149	29	2,160	Galvanized	zZ	830.1	482	SupplierStandard	9.04
104102906100149	29	2,160	Bright	zZ	830.1	482	SupplierStandard	9.04
104102905100149	29	2,160	Bright	sS	830.1	482	SupplierStandard	9.04
104102905300149	29	2,160	Galvanized	sS	830.1	482	SupplierStandard	9.04
104102903100149	29	2,160	Bright	zS	830.1	482	SupplierStandard	9.04
104102903300149	29	2,160	Galvanized	zS	830.1	482	SupplierStandard	9.04
104102904100149	29	2,160	Bright	sZ	830.1	482	SupplierStandard	9.04
104102904300149	29	2,160	Galvanized	sZ	830.1	482	SupplierStandard	9.04
104103006270149	30	1,960	Galvanized	zZ	849.6	516	SupplierStandard	9.68
104103006070149	30	1,960	Bright	zZ	849.6	516	SupplierStandard	9.68
104103005070149	30	1,960	Bright	sS	849.6	516	SupplierStandard	9.68
104103005270149	30	1,960	Galvanized	sS	849.6	516	SupplierStandard	9.68
104103003070149	30	1,960	Bright	zS	849.6	516	SupplierStandard	9.68
104103003270149	30	1,960	Galvanized	zS	849.6	516	SupplierStandard	9.68
104103004070149	30	1,960	Bright	sZ	849.6	516	SupplierStandard	9.68
104103004270149	30	1,960	Galvanized	sZ	849.6	516	SupplierStandard	9.68

104103006300149	30	2,160	Galvanized	zZ	888.4	516	SupplierStandard	9.68
104103006100149	30	2,160	Bright	zZ	888.4	516	SupplierStandard	9.68
104103005100149	30	2,160	Bright	sS	888.4	516	SupplierStandard	9.68
104103005300149	30	2,160	Galvanized	sS	888.4	516	SupplierStandard	9.68
104103003100149	30	2,160	Bright	zS	888.4	516	SupplierStandard	9.68
104103003300149	30	2,160	Galvanized	zS	888.4	516	SupplierStandard	9.68
104103004100149	30	2,160	Bright	sZ	888.4	516	SupplierStandard	9.68
104103004300149	30	2,160	Galvanized	sZ	888.4	516	SupplierStandard	9.68
104103106270149	31	1,960	Galvanized	zZ	907.1	551	SupplierStandard	10.32
104103106070149	31	1,960	Bright	zZ	907.1	551	SupplierStandard	10.32
104103105070149	31	1,960	Bright	sS	907.1	551	SupplierStandard	10.32
104103105270149	31	1,960	Galvanized	sS	907.1	551	SupplierStandard	10.32
104103103070149	31	1,960	Bright	zS	907.1	551	SupplierStandard	10.32
104103103270149	31	1,960	Galvanized	zS	907.1	551	SupplierStandard	10.32
104103104070149	31	1,960	Bright	sZ	907.1	551	SupplierStandard	10.32
104103104270149	31	1,960	Galvanized	sZ	907.1	551	SupplierStandard	10.32
104103106300149	31	2,160	Galvanized	zZ	948.6	551	SupplierStandard	10.32
104103106100149	31	2,160	Bright	zZ	948.6	551	SupplierStandard	10.32
104103105100149	31	2,160	Bright	sS	948.6	551	SupplierStandard	10.32
104103105300149	31	2,160	Galvanized	sS	948.6	551	SupplierStandard	10.32
104103103100149	31	2,160	Bright	zS	948.6	551	SupplierStandard	10.32
104103103300149	31	2,160	Galvanized	zS	948.6	551	SupplierStandard	10.32
104103104100149	31	2,160	Bright	sZ	948.6	551	SupplierStandard	10.32

104103104300149	31	2,160	Galvanized	sZ	948.6	551	SupplierStandard	10.32
104103206270149	32	1,960	Galvanized	zZ	966.6	587	SupplierStandard	11
104103206070149	32	1,960	Bright	zZ	966.6	587	SupplierStandard	11
104103205070149	32	1,960	Bright	sS	966.6	587	SupplierStandard	11
104103205270149	32	1,960	Galvanized	sS	966.6	587	SupplierStandard	11
104103203070149	32	1,960	Bright	zS	966.6	587	SupplierStandard	11
104103203270149	32	1,960	Galvanized	zS	966.6	587	SupplierStandard	11
104103206300149	32	2,160	Galvanized	zZ	1,011	587	SupplierStandard	11
104103206100149	32	2,160	Bright	zZ	1,011	587	SupplierStandard	11
104103205100149	32	2,160	Bright	sS	1,011	587	SupplierStandard	11
104103205300149	32	2,160	Galvanized	sS	1,011	587	SupplierStandard	11
104103203100149	32	2,160	Bright	zS	1,011	587	SupplierStandard	11
104103203300149	32	2,160	Galvanized	zS	1,011	587	SupplierStandard	11
104103306270149	33	1,960	Galvanized	zZ	1,028	624	SupplierStandard	11.71
104103306070149	33	1,960	Bright	zZ	1,028	624	SupplierStandard	11.71
104103305070149	33	1,960	Bright	sS	1,028	624	SupplierStandard	11.71
104103305270149	33	1,960	Galvanized	sS	1,028	624	SupplierStandard	11.71
104103303070149	33	1,960	Bright	zS	1,028	624	SupplierStandard	11.71
104103303270149	33	1,960	Galvanized	zS	1,028	624	SupplierStandard	11.71
104103306300149	33	2,160	Galvanized	zZ	1,075	624	SupplierStandard	11.71
104103306100149	33	2,160	Bright	zZ	1,075	624	SupplierStandard	11.71
104103305100149	33	2,160	Bright	sS	1,075	624	SupplierStandard	11.71
104103305300149	33	2,160	Galvanized	sS	1,075	624	SupplierStandard	11.71

104103303100149	33	2,160	Bright	zS	1,075	624	SupplierStandard	11.71
104103303300149	33	2,160	Galvanized	zS	1,075	624	SupplierStandard	11.71
104103406270149	34	1,960	Galvanized	zZ	1,091	663	SupplierStandard	12.41
104103406070149	34	1,960	Bright	zZ	1,091	663	SupplierStandard	12.41
104103405070149	34	1,960	Bright	sS	1,091	663	SupplierStandard	12.41
104103405270149	34	1,960	Galvanized	sS	1,091	663	SupplierStandard	12.41
104103403070149	34	1,960	Bright	zS	1,091	663	SupplierStandard	12.41
104103403270149	34	1,960	Galvanized	zS	1,091	663	SupplierStandard	12.41
104103406300149	34	2,160	Galvanized	zZ	1,141	663	SupplierStandard	12.41
104103406100149	34	2,160	Bright	zZ	1,141	663	SupplierStandard	12.41
104103405100149	34	2,160	Bright	sS	1,141	663	SupplierStandard	12.41
104103405300149	34	2,160	Galvanized	sS	1,141	663	SupplierStandard	12.41
104103403100149	34	2,160	Bright	zS	1,141	663	SupplierStandard	12.41
104103403300149	34	2,160	Galvanized	zS	1,141	663	SupplierStandard	12.41
104103506270149	35	1,960	Galvanized	zZ	1,156	702	SupplierStandard	13.16
104103506070149	35	1,960	Bright	zZ	1,156	702	SupplierStandard	13.16
104103505070149	35	1,960	Bright	sS	1,156	702	SupplierStandard	13.16
104103505270149	35	1,960	Galvanized	sS	1,156	702	SupplierStandard	13.16
104103503070149	35	1,960	Bright	zS	1,156	702	SupplierStandard	13.16
104103503270149	35	1,960	Galvanized	zS	1,156	702	SupplierStandard	13.16
104103506300149	35	2,160	Galvanized	zZ	1,209	702	SupplierStandard	13.16
104103506100149	35	2,160	Bright	zZ	1,209	702	SupplierStandard	13.16
104103505100149	35	2,160	Bright	sS	1,209	702	SupplierStandard	13.16

104103505300149	35	2,160	Galvanized	sS	1,209	702	SupplierStandard	13.16
104103503100149	35	2,160	Bright	zS	1,209	702	SupplierStandard	13.16
104103503300149	35	2,160	Galvanized	zS	1,209	702	SupplierStandard	13.16
104103606270149	36	1,960	Galvanized	zZ	1,223	743	SupplierStandard	13.93
104103606070149	36	1,960	Bright	zZ	1,223	743	SupplierStandard	13.93
104103605070149	36	1,960	Bright	sS	1,223	743	SupplierStandard	13.93
104103605270149	36	1,960	Galvanized	sS	1,223	743	SupplierStandard	13.93
104103603070149	36	1,960	Bright	zS	1,223	743	SupplierStandard	13.93
104103603270149	36	1,960	Galvanized	zS	1,223	743	SupplierStandard	13.93
104103606300149	36	2,160	Galvanized	zZ	1,279	743	SupplierStandard	13.93
104103606100149	36	2,160	Bright	zZ	1,279	743	SupplierStandard	13.93
104103605100149	36	2,160	Bright	sS	1,279	743	SupplierStandard	13.93
104103605300149	36	2,160	Galvanized	sS	1,279	743	SupplierStandard	13.93
104103603100149	36	2,160	Bright	zS	1,279	743	SupplierStandard	13.93
104103603300149	36	2,160	Galvanized	zS	1,279	743	SupplierStandard	13.93
104103806270149	38	1,960	Galvanized	zZ	1,363	828	SupplierStandard	15.52
104103806070149	38	1,960	Bright	zZ	1,363	828	SupplierStandard	15.52
104103805070149	38	1,960	Bright	sS	1,363	828	SupplierStandard	15.52
104103805270149	38	1,960	Galvanized	sS	1,363	828	SupplierStandard	15.52
104103803070149	38	1,960	Bright	zS	1,363	828	SupplierStandard	15.52
104103803270149	38	1,960	Galvanized	zS	1,363	828	SupplierStandard	15.52
104103806300149	38	2,160	Galvanized	zZ	1,425	828	SupplierStandard	15.52
104103806100149	38	2,160	Bright	zZ	1,425	828	SupplierStandard	15.52

104103805100149	38	2,160	Bright	sS	1,425	828	SupplierStandard	15.52
104103805300149	38	2,160	Galvanized	sS	1,425	828	SupplierStandard	15.52
104103803100149	38	2,160	Bright	zS	1,425	828	SupplierStandard	15.52
104103803300149	38	2,160	Galvanized	zS	1,425	828	SupplierStandard	15.52
104104006270149	40	1,960	Galvanized	zZ	1,510	917	SupplierStandard	17.2
104104006070149	40	1,960	Bright	zZ	1,510	917	SupplierStandard	17.2
104104005070149	40	1,960	Bright	sS	1,510	917	SupplierStandard	17.2
104104005270149	40	1,960	Galvanized	sS	1,510	917	SupplierStandard	17.2
104104003070149	40	1,960	Bright	zS	1,510	917	SupplierStandard	17.2
104104003270149	40	1,960	Galvanized	zS	1,510	917	SupplierStandard	17.2
104104006300149	40	2,160	Galvanized	zZ	1,579	917	SupplierStandard	17.2
104104006100149	40	2,160	Bright	zZ	1,579	917	SupplierStandard	17.2
104104005100149	40	2,160	Bright	sS	1,579	917	SupplierStandard	17.2
104104005300149	40	2,160	Galvanized	sS	1,579	917	SupplierStandard	17.2
104104003100149	40	2,160	Bright	zS	1,579	917	SupplierStandard	17.2
104104003300149	40	2,160	Galvanized	zS	1,579	917	SupplierStandard	17.2
104104206270149	42	1,960	Galvanized	zZ	1,665	1,011	SupplierStandard	18.96
104104206070149	42	1,960	Bright	zZ	1,665	1,011	SupplierStandard	18.96
104104205070149	42	1,960	Bright	sS	1,665	1,011	SupplierStandard	18.96
104104205270149	42	1,960	Galvanized	sS	1,665	1,011	SupplierStandard	18.96
104104203070149	42	1,960	Bright	zS	1,665	1,011	SupplierStandard	18.96
104104203270149	42	1,960	Galvanized	zS	1,665	1,011	SupplierStandard	18.96
104104206300149	42	2,160	Galvanized	zZ	1,741	1,011	SupplierStandard	18.96

104104206100149	42	2,160	Bright	zZ	1,741	1,011	SupplierStandard	18.96
104104205100149	42	2,160	Bright	sS	1,741	1,011	SupplierStandard	18.96
104104205300149	42	2,160	Galvanized	sS	1,741	1,011	SupplierStandard	18.96
104104203100149	42	2,160	Bright	zS	1,741	1,011	SupplierStandard	18.96
104104203300149	42	2,160	Galvanized	zS	1,741	1,011	SupplierStandard	18.96
104104306270149	43	1,960	Galvanized	zZ	1,745	1,060	SupplierStandard	19.86
104104306070149	43	1,960	Bright	zZ	1,745	1,060	SupplierStandard	19.86
104104305070149	43	1,960	Bright	sS	1,745	1,060	SupplierStandard	19.86
104104305270149	43	1,960	Galvanized	sS	1,745	1,060	SupplierStandard	19.86
104104303070149	43	1,960	Bright	zS	1,745	1,060	SupplierStandard	19.86
104104303270149	43	1,960	Galvanized	zS	1,745	1,060	SupplierStandard	19.86
104104306300149	43	2,160	Galvanized	zZ	1,825	1,060	SupplierStandard	19.86
104104306100149	43	2,160	Bright	zZ	1,825	1,060	SupplierStandard	19.86
104104305100149	43	2,160	Bright	sS	1,825	1,060	SupplierStandard	19.86
104104305300149	43	2,160	Galvanized	sS	1,825	1,060	SupplierStandard	19.86
104104303100149	43	2,160	Bright	zS	1,825	1,060	SupplierStandard	19.86
104104303300149	43	2,160	Galvanized	zS	1,825	1,060	SupplierStandard	19.86
104104406270149	44	1,960	Galvanized	zZ	1,827	1,110	SupplierStandard	20.81
104104406070149	44	1,960	Bright	zZ	1,827	1,110	SupplierStandard	20.81
104104405070149	44	1,960	Bright	sS	1,827	1,110	SupplierStandard	20.81
104104405270149	44	1,960	Galvanized	sS	1,827	1,110	SupplierStandard	20.81
104104403070149	44	1,960	Bright	zS	1,827	1,110	SupplierStandard	20.81
104104403270149	44	1,960	Galvanized	zS	1,827	1,110	SupplierStandard	20.81

104104406300149	44	2,160	Galvanized	zZ	1,911	1,110	SupplierStandard	20.81
104104406100149	44	2,160	Bright	zZ	1,911	1,110	SupplierStandard	20.81
104104405100149	44	2,160	Bright	sS	1,911	1,110	SupplierStandard	20.81
104104405300149	44	2,160	Galvanized	sS	1,911	1,110	SupplierStandard	20.81
104104403100149	44	2,160	Bright	zS	1,911	1,110	SupplierStandard	20.81
104104403300149	44	2,160	Galvanized	zS	1,911	1,110	SupplierStandard	20.81
104104506270149	45	1,960	Galvanized	zZ	1,911	1,161	SupplierStandard	21.76
104104506070149	45	1,960	Bright	zZ	1,911	1,161	SupplierStandard	21.76
104104505070149	45	1,960	Bright	sS	1,911	1,161	SupplierStandard	21.76
104104505270149	45	1,960	Galvanized	sS	1,911	1,161	SupplierStandard	21.76
104104503070149	45	1,960	Bright	zS	1,911	1,161	SupplierStandard	21.76
104104503270149	45	1,960	Galvanized	zS	1,911	1,161	SupplierStandard	21.76
104104506300149	45	2,160	Galvanized	zZ	1,999	1,161	SupplierStandard	21.76
104104506100149	45	2,160	Bright	zZ	1,999	1,161	SupplierStandard	21.76
104104505100149	45	2,160	Bright	sS	1,999	1,161	SupplierStandard	21.76
104104505300149	45	2,160	Galvanized	sS	1,999	1,161	SupplierStandard	21.76
104104503100149	45	2,160	Bright	zS	1,999	1,161	SupplierStandard	21.76
104104503300149	45	2,160	Galvanized	zS	1,999	1,161	SupplierStandard	21.76
104104606270149	46	1,960	Galvanized	zZ	1,997	1,213	SupplierStandard	22.73
104104606070149	46	1,960	Bright	zZ	1,997	1,213	SupplierStandard	22.73
104104605070149	46	1,960	Bright	sS	1,997	1,213	SupplierStandard	22.73
104104605270149	46	1,960	Galvanized	sS	1,997	1,213	SupplierStandard	22.73
104104603070149	46	1,960	Bright	zS	1,997	1,213	SupplierStandard	22.73

104104603270149	46	1,960	Galvanized	zS	1,997	1,213	SupplierStandard	22.73
104104606300149	46	2,160	Galvanized	zZ	2,089	1,213	SupplierStandard	22.73
104104606100149	46	2,160	Bright	zZ	2,089	1,213	SupplierStandard	22.73
104104605100149	46	2,160	Bright	sS	2,089	1,213	SupplierStandard	22.73
104104605300149	46	2,160	Galvanized	sS	2,089	1,213	SupplierStandard	22.73
104104603100149	46	2,160	Bright	zS	2,089	1,213	SupplierStandard	22.73
104104603300149	46	2,160	Galvanized	zS	2,089	1,213	SupplierStandard	22.73
104104806270149	48	1,960	Galvanized	zZ	2,175	1,321	SupplierStandard	24.76
104104806070149	48	1,960	Bright	zZ	2,175	1,321	SupplierStandard	24.76
104104805070149	48	1,960	Bright	sS	2,175	1,321	SupplierStandard	24.76
104104805270149	48	1,960	Galvanized	sS	2,175	1,321	SupplierStandard	24.76
104104803070149	48	1,960	Bright	zS	2,175	1,321	SupplierStandard	24.76
104104803270149	48	1,960	Galvanized	zS	2,175	1,321	SupplierStandard	24.76
104104806300149	48	2,160	Galvanized	zZ	2,274	1,321	SupplierStandard	24.76
104104806100149	48	2,160	Bright	zZ	2,274	1,321	SupplierStandard	24.76
104104805100149	48	2,160	Bright	sS	2,274	1,321	SupplierStandard	24.76
104104805300149	48	2,160	Galvanized	sS	2,274	1,321	SupplierStandard	24.76
104104803100149	48	2,160	Bright	zS	2,274	1,321	SupplierStandard	24.76
104104803300149	48	2,160	Galvanized	zS	2,274	1,321	SupplierStandard	24.76
104105006270149	50	1,960	Galvanized	zZ	2,360	1,433	SupplierStandard	26.85
104105006070149	50	1,960	Bright	zZ	2,360	1,433	SupplierStandard	26.85
104105005070149	50	1,960	Bright	sS	2,360	1,433	SupplierStandard	26.85
104105005270149	50	1,960	Galvanized	sS	2,360	1,433	SupplierStandard	26.85

104105003070149	50	1,960	Bright	zS	2,360	1,433	SupplierStandard	26.85
104105003270149	50	1,960	Galvanized	zS	2,360	1,433	SupplierStandard	26.85
104105006300149	50	2,160	Galvanized	zZ	2,468	1,433	SupplierStandard	26.85
104105006100149	50	2,160	Bright	zZ	2,468	1,433	SupplierStandard	26.85
104105005100149	50	2,160	Bright	sS	2,468	1,433	SupplierStandard	26.85
104105005300149	50	2,160	Galvanized	sS	2,468	1,433	SupplierStandard	26.85
104105003100149	50	2,160	Bright	zS	2,468	1,433	SupplierStandard	26.85
104105003300149	50	2,160	Galvanized	zS	2,468	1,433	SupplierStandard	26.85
104105206270149	52	1,960	Galvanized	zZ	2,552	1,550	SupplierStandard	29.06
104105206070149	52	1,960	Bright	zZ	2,552	1,550	SupplierStandard	29.06
104105205070149	52	1,960	Bright	sS	2,552	1,550	SupplierStandard	29.06
104105205270149	52	1,960	Galvanized	sS	2,552	1,550	SupplierStandard	29.06
104105203070149	52	1,960	Bright	zS	2,552	1,550	SupplierStandard	29.06
104105203270149	52	1,960	Galvanized	zS	2,552	1,550	SupplierStandard	29.06
104105206300149	52	2,160	Galvanized	zZ	2,669	1,550	SupplierStandard	29.06
104105206100149	52	2,160	Bright	zZ	2,669	1,550	SupplierStandard	29.06
104105205100149	52	2,160	Bright	sS	2,669	1,550	SupplierStandard	29.06
104105205300149	52	2,160	Galvanized	sS	2,669	1,550	SupplierStandard	29.06
104105203100149	52	2,160	Bright	zS	2,669	1,550	SupplierStandard	29.06
104105203300149	52	2,160	Galvanized	zS	2,669	1,550	SupplierStandard	29.06
104105406270149	54	1,960	Galvanized	zZ	2,753	1,671	SupplierStandard	31.33
104105406070149	54	1,960	Bright	zZ	2,753	1,671	SupplierStandard	31.33
104105405070149	54	1,960	Bright	sS	2,753	1,671	SupplierStandard	31.33

104105405270149	54	1,960	Galvanized	sS	2,753	1,671	SupplierStandard	31.33
104105403070149	54	1,960	Bright	zS	2,753	1,671	SupplierStandard	31.33
104105403270149	54	1,960	Galvanized	zS	2,753	1,671	SupplierStandard	31.33
104105406300149	54	2,160	Galvanized	zZ	2,878	1,671	SupplierStandard	31.33
104105406100149	54	2,160	Bright	zZ	2,878	1,671	SupplierStandard	31.33
104105405100149	54	2,160	Bright	sS	2,878	1,671	SupplierStandard	31.33
104105405300149	54	2,160	Galvanized	sS	2,878	1,671	SupplierStandard	31.33
104105403100149	54	2,160	Bright	zS	2,878	1,671	SupplierStandard	31.33
104105403300149	54	2,160	Galvanized	zS	2,878	1,671	SupplierStandard	31.33

## Technical data