

Description

ParaWeb™ strips consists of a core of high tenacity polyester yarn tendons encased in a polyethylene sheath. The strips are suitable for reinforcement applications in combination with precast concrete panel facing.

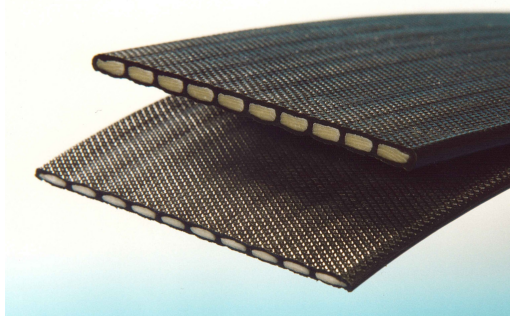
| PARAWEB GRADE | | 30 | 40 | 50 | 60 | 75 | 85 | 100 |
|---|------------|---|-------|-------|-------|-------|-------|--------|
| PARAWEB TYPE | | 2E+ | 2E+ | 2E+ | 2E | 2E | 2E | 2E |
| MECHANICAL PROPERTIES | | | | | | | | |
| Ultimate Tensile Strength (UTS) | kN | 30.16 | 40.20 | 50.27 | 60.32 | 75.40 | 85.45 | 100.54 |
| Long Term Tensile T_{CR} (70% of UTS at 30°C - 120 years design life) | kN | 21.09 | 28.11 | 35.15 | 42.18 | 52.73 | 59.76 | 70.31 |
| PARTIAL MATERIAL FACTORS (according to BS 8006 - Ultimate Limit State) | | | | | | | | |
| Consistency of manufacturing | f_{m11} | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Assessment of available data | f_{m121} | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Extrapolation to 120 year design life | f_{m122} | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Intermediate and long term effects of installation damage: (See Notes) | | | | | | | | |
| Soil type I | f_{m21} | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.07 | 1.06 |
| Soil type II | f_{m21} | 1.05 | 1.05 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| Soil type III | f_{m21} | 1.05 | 1.05 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| Environmental degradation - pH range 4.0 to 9.0 | f_{m22} | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 |
| MATERIAL FACTOR (BS 8006 - U.L.S.) | | $f_m = f_{m11} \times f_{m121} \times f_{m122} \times f_{m21} \times f_{m22}$ | | | | | | |
| Soil type I | f_m | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.29 | 1.28 |
| Soil type II | f_m | 1.27 | 1.27 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 |
| Soil type III | f_m | 1.27 | 1.27 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 |
| SOIL INTERACTION PROPERTIES: INTERACTION COEFFICIENT α | | | | | | | | |
| Soil type I/II/III | α | 0.80 to 0.90 | | | | | | |
| RECOMMENDED DESIGN VALUES FOR 120 YEARS LIFE DESIGN: $T_D = T_{CR} / f_m$ (soil type) | | | | | | | | |
| Soil type I | T_D | 16.14 | 21.51 | 26.90 | 32.28 | 40.35 | 46.16 | 54.82 |
| Soil type II | T_D | 16.60 | 22.13 | 28.20 | 33.85 | 42.31 | 47.95 | 56.41 |
| Soil type III | T_D | 16.60 | 22.13 | 28.20 | 33.85 | 42.31 | 47.95 | 56.41 |

Notes:

Soil type I : coarse crushed gravel ($D_{max} = 75.0mm$ $D_{50} \approx 12.5mm$)

Soil type II : concrete sand ($D_{max} = 25.0mm$ $D_{50} \approx 0.850mm$)

Soil type III : silty sand ($D_{max} = 25.0mm$ $D_{50} \approx 0.150mm$)



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LRQA certified Quality management system with
UKAS accreditation.