

Line Check Sheet for Paragliders

Piece Check

| | |
|--|---------------------------------|
| Glider Type: XB38 UP Makalu light 18 (LTF/EN B) Rev. No.: 3 | Serial No.: Date: 19.08.2014 |
|--|---------------------------------|

Line lengths [mm]

| R. No. | Area | | | | | | | | | | | | | | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|
| | A | | | | B | | | | C | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 6419 | | | | | 6371 | | | | | 6412 | | | | |
| 4 | 6333 | | | | | 6288 | | | | | 6332 | | | | |
| 6 | 6367 | | | | | 6322 | | | | | 6361 | | | | |
| 8 | 6333 | | | | | 6293 | | | | | 6326 | | | | |
| 10 | 6259 | | | | | 6218 | | | | | 6257 | | | | |
| 12 | 6285 | | | | | 6245 | | | | | 6277 | | | | |
| 14 | 6241 | | | | | 6189 | | | | | 6212 | | | | |
| 16 | 6111 | | | | | 6064 | | | | | 6074 | | | | |
| 18 | 6048 | | | | | 6003 | | | | | 6018 | | | | |
| 19 | 6037 | | | | | 5996 | | | | | 5999 | | | | |
| 21 | 5745 | | | | | 5708 | | | | | 5739 | | | | |
| 23 | | | | | | 5589 | | | | | | | | | |
| 23 | | | | | | 5556 | | | | | | | | | |
| 23 | | | | | | 5606 | | | | | | | | | |

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

| R. No. | Area | | | | | | | | | | | | Brake | rib no. brakes | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|-------|----------------|--------|
| | D | | | | | | | | | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 6538 | | | | | 7243 | | | | | | | | | 3 |
| 4 | 6457 | | | | | 6939 | | | | | | | | | 5-6 |
| 6 | 6486 | | | | | 6827 | | | | | | | | | 8 |
| 8 | 6452 | | | | | 6682 | | | | | | | | | 10 |
| 10 | 6369 | | | | | 6543 | | | | | | | | | 12 |
| 12 | 6375 | | | | | 6535 | | | | | | | | | 14 |
| 14 | 6271 | | | | | 6446 | | | | | | | | | 16 |
| 16 | 6119 | | | | | 6326 | | | | | | | | | 18 |
| 18 | | | | | | 6303 | | | | | | | | | 20 |
| 19 | | | | | | 6317 | | | | | | | | | 22 |
| 21 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |

brakes measured inkl. 10cm-loop

| Loops on Quick links | | Loop Index | MTS |
|----------------------|------------|------------|-----|
| Factory setting | | | |
| A1 | -- | 0 | 0 |
| A2 | -- | 0 | 0 |
| A3 | -- | 0 | 0 |
| B1 | -- | 0 | 0 |
| B2 | -- | 0 | 0 |
| B3 | -- | 0 | 0 |
| C1 | Round turn | 1 | 1 |
| C2 | Round turn | 1 | 1 |
| C3 | Round turn | 1 | 1 |
| STI | Round turn | 1 | 1 |

Single Line Lengths

Glider Type: UP Makalu light 18 (LTF/EN B)
Rev. No.: 3

Serial No.:
Date: 19.08.2014

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| a1 | 2 | 1865 | 8000U-120 | red |
| a2 | 2 | 1781 | 8000U-120 | red |
| a3 | 2 | 1817 | 8000U-120 | red |
| a4 | 2 | 1786 | 8000U-120 | red |
| a5 | 2 | 1710 | 8000U-120 | red |
| a6 | 2 | 1740 | 8000U-120 | red |
| a7 | 2 | 1687 | 8000U-090 | red |
| a8 | 2 | 1557 | 8000U-090 | red |
| a9 | 2 | 344 | 8000U-070 | red |
| a10 | 2 | 335 | 8000U-070 | red |
| a11 | 2 | 1196 | 8000U-070 | red |
| b1 | 2 | 1823 | 8000U-120 | red |
| b2 | 2 | 1740 | 8000U-120 | red |
| b3 | 2 | 1775 | 8000U-120 | red |
| b4 | 2 | 1744 | 8000U-120 | red |
| b5 | 2 | 1668 | 8000U-120 | red |
| b6 | 2 | 1697 | 8000U-120 | red |
| b7 | 2 | 1637 | 8000U-090 | red |
| b8 | 2 | 1511 | 8000U-090 | red |
| b9 | 2 | 302 | 8000U-070 | red |
| b10 | 2 | 295 | 8000U-070 | red |
| b11 | 2 | 1158 | 8000U-070 | red |
| c1 | 2 | 1864 | 8000U-090 | red |
| c2 | 2 | 1785 | 8000U-090 | red |
| c3 | 2 | 1819 | 8000U-090 | red |
| c4 | 2 | 1782 | 8000U-090 | red |
| c5 | 2 | 1710 | 8000U-090 | red |
| c6 | 2 | 1734 | 8000U-090 | red |
| c7 | 2 | 1664 | 8000U-070 | red |
| c8 | 2 | 1528 | 8000U-070 | red |
| c9 | 2 | 321 | 8000U-070 | red |
| c10 | 2 | 304 | 8000U-070 | red |
| c11 | 2 | 1186 | 8000U-070 | red |
| d1 | 2 | 1993 | 8000U-070 | red |
| d2 | 2 | 1913 | 8000U-070 | red |
| d3 | 2 | 1942 | 8000U-070 | red |
| d4 | 2 | 1906 | 8000U-070 | red |
| d5 | 2 | 1824 | 8000U-070 | red |
| d6 | 2 | 1831 | 8000U-070 | red |
| d7 | 2 | 1724 | 8000U-070 | red |
| d8 | 2 | 1572 | 8000U-070 | red |

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| AM1 | 2 | 1152 | 8000U-090 | red |
| BM1 | 2 | 1152 | 8000U-090 | red |
| CM1 | 2 | 1152 | 8000U-090 | red |
| AI | 2 | 4562 | 7950-200 | red |
| AII | 2 | 4562 | 7950-200 | red |
| AIII | 2 | 4562 | 7950-150 | green |
| BI | 2 | 4562 | 7950-200 | blue |
| BII | 2 | 4562 | 7950-200 | blue |
| BIII | 2 | 4562 | 7950-150 | blue |
| CI | 2 | 4580 | 7950-200 | yellow |
| CII | 2 | 4580 | 7950-200 | yellow |
| CIII | 2 | 4580 | 7950-150 | yellow |
| st1 | 2 | 1041 | 8000U-070 | red |
| st2 | 2 | 1005 | 8000U-070 | red |
| st3 | 2 | 1055 | 8000U-070 | red |
| STI | 2 | 4571 | 7950-100 | violet |

| Brake no. | Quantity | Length [mm] | material | colour |
|-----------|----------|-------------|-----------|--------|
| br1 | 2 | 2129 | 8000U-070 | red |
| br2 | 2 | 1823 | 8000U-070 | red |
| br3 | 2 | 1715 | 8000U-070 | red |
| br4 | 2 | 1565 | 8000U-070 | red |
| br5 | 2 | 1425 | 8000U-070 | red |
| br6 | 2 | 1418 | 8000U-070 | red |
| br7 | 2 | 1330 | 8000U-070 | red |
| br8 | 2 | 1211 | 8000U-070 | red |
| br9 | 2 | 1188 | 8000U-070 | red |
| br10 | 2 | 1205 | 8000U-070 | red |
| BR1 | 2 | 2765 | 8000U-120 | red |
| BR2 | 2 | 2765 | 8000U-120 | red |
| BR3 | 2 | 2765 | 8000U-120 | red |
| BRI | 2 | 2295 | 989/1.5 | pink |

Line material:

Edelrid 8000U-120
Edelrid 8000U-090
Edelrid 8000U-070
Edelrid 7950-200
Edelrid 7950-150
Edelrid 7950-100
Cousin 989/1.5

| total length | no. of lines |
|--------------|--------------|
| 278821 | 142 |

Line Check Sheet for Paragliders

Piece Check

| | |
|---|------------------|
| Glider Type: XB38 UP Makalu light 20 (LTF/EN B) | Serial No.: |
| Rev. No.: 3 | Date: 19.08.2014 |

Line lengths [mm]

| R. No. | Area | | | | | | | | | | | | | | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|
| | A | | | | B | | | | C | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 6683 | | | | | 6639 | | | | | 6677 | | | | |
| 4 | 6596 | | | | | 6552 | | | | | 6595 | | | | |
| 6 | 6633 | | | | | 6589 | | | | | 6630 | | | | |
| 8 | 6600 | | | | | 6556 | | | | | 6592 | | | | |
| 10 | 6521 | | | | | 6477 | | | | | 6516 | | | | |
| 12 | 6552 | | | | | 6507 | | | | | 6542 | | | | |
| 14 | 6491 | | | | | 6444 | | | | | 6468 | | | | |
| 16 | 6355 | | | | | 6312 | | | | | 6326 | | | | |
| 18 | 6290 | | | | | 6252 | | | | | 6265 | | | | |
| 19 | 6280 | | | | | 6244 | | | | | 6247 | | | | |
| 21 | 5988 | | | | | 5948 | | | | | 5977 | | | | |
| 23 | | | | | | 5826 | | | | | | | | | |
| 23 | | | | | | 5788 | | | | | | | | | |
| 23 | | | | | | 5841 | | | | | | | | | |

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

| R. No. | Area | | | | | | | | | | | | Brake | rib no. brakes | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|-------|----------------|--------|
| | D | | | | | | | | | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 6812 | | | | | 7525 | | | | | | | | | 3 |
| 4 | 6729 | | | | | 7206 | | | | | | | | | 5-6 |
| 6 | 6759 | | | | | 7094 | | | | | | | | | 8 |
| 8 | 6721 | | | | | 6937 | | | | | | | | | 10 |
| 10 | 6636 | | | | | 6792 | | | | | | | | | 12 |
| 12 | 6642 | | | | | 6785 | | | | | | | | | 14 |
| 14 | 6531 | | | | | 6693 | | | | | | | | | 16 |
| 16 | 6372 | | | | | 6569 | | | | | | | | | 18 |
| 18 | | | | | | 6545 | | | | | | | | | 20 |
| 19 | | | | | | 6563 | | | | | | | | | 22 |
| 21 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |

brakes measured inkl. 10cm-loop

| Loops on Quick links | | Loop Index | MTS |
|----------------------|------------|------------|-----|
| Factory setting | | | |
| A1 | -- | 0 | 0 |
| A2 | -- | 0 | 0 |
| A3 | -- | 0 | 0 |
| B1 | -- | 0 | 0 |
| B2 | -- | 0 | 0 |
| B3 | -- | 0 | 0 |
| C1 | Round turn | 1 | 1 |
| C2 | Round turn | 1 | 1 |
| C3 | Round turn | 1 | 1 |
| STI | Round turn | 1 | 1 |

Single Line Lengths

Glider Type: UP Makalu light 20 (LTF/EN B)
Rev. No.: 3

Serial No.:
Date: 19.08.2014

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| a1 | 2 | 1943 | 8000U-120 | red |
| a2 | 2 | 1856 | 8000U-120 | red |
| a3 | 2 | 1893 | 8000U-120 | red |
| a4 | 2 | 1860 | 8000U-120 | red |
| a5 | 2 | 1781 | 8000U-120 | red |
| a6 | 2 | 1812 | 8000U-120 | red |
| a7 | 2 | 1757 | 8000U-090 | red |
| a8 | 2 | 1621 | 8000U-090 | red |
| a9 | 2 | 358 | 8000U-070 | red |
| a10 | 2 | 348 | 8000U-070 | red |
| a11 | 2 | 1246 | 8000U-070 | red |
| b1 | 2 | 1899 | 8000U-120 | red |
| b2 | 2 | 1812 | 8000U-120 | red |
| b3 | 2 | 1849 | 8000U-120 | red |
| b4 | 2 | 1816 | 8000U-120 | red |
| b5 | 2 | 1738 | 8000U-120 | red |
| b6 | 2 | 1767 | 8000U-120 | red |
| b7 | 2 | 1705 | 8000U-090 | red |
| b8 | 2 | 1573 | 8000U-090 | red |
| b9 | 2 | 315 | 8000U-070 | red |
| b10 | 2 | 307 | 8000U-070 | red |
| b11 | 2 | 1207 | 8000U-070 | red |
| c1 | 2 | 1942 | 8000U-090 | red |
| c2 | 2 | 1860 | 8000U-090 | red |
| c3 | 2 | 1895 | 8000U-090 | red |
| c4 | 2 | 1857 | 8000U-090 | red |
| c5 | 2 | 1781 | 8000U-090 | red |
| c6 | 2 | 1807 | 8000U-090 | red |
| c7 | 2 | 1734 | 8000U-070 | red |
| c8 | 2 | 1592 | 8000U-070 | red |
| c9 | 2 | 334 | 8000U-070 | red |
| c10 | 2 | 317 | 8000U-070 | red |
| c11 | 2 | 1236 | 8000U-070 | red |
| d1 | 2 | 2076 | 8000U-070 | red |
| d2 | 2 | 1993 | 8000U-070 | red |
| d3 | 2 | 2023 | 8000U-070 | red |
| d4 | 2 | 1985 | 8000U-070 | red |
| d5 | 2 | 1900 | 8000U-070 | red |
| d6 | 2 | 1908 | 8000U-070 | red |
| d7 | 2 | 1796 | 8000U-070 | red |
| d8 | 2 | 1638 | 8000U-070 | red |

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| AM1 | 2 | 1200 | 8000U-090 | red |
| BM1 | 2 | 1200 | 8000U-090 | red |
| CM1 | 2 | 1200 | 8000U-090 | red |
| AI | 2 | 4757 | 7950-200 | red |
| AII | 2 | 4757 | 7950-200 | red |
| AIII | 2 | 4752 | 7950-150 | green |
| BI | 2 | 4757 | 7950-200 | blue |
| BII | 2 | 4757 | 7950-200 | blue |
| BIII | 2 | 4757 | 7950-150 | blue |
| CI | 2 | 4766 | 7950-200 | yellow |
| CII | 2 | 4766 | 7950-200 | yellow |
| CIII | 2 | 4766 | 7950-150 | yellow |
| st1 | 2 | 1085 | 8000U-070 | red |
| st2 | 2 | 1046 | 8000U-070 | red |
| st3 | 2 | 1099 | 8000U-070 | red |
| STI | 2 | 4762 | 7950-100 | violet |

| Brake no. | Quantity | Length [mm] | material | colour |
|-----------|----------|-------------|-----------|--------|
| br1 | 2 | 2218 | 8000U-070 | red |
| br2 | 2 | 1899 | 8000U-070 | red |
| br3 | 2 | 1787 | 8000U-070 | red |
| br4 | 2 | 1630 | 8000U-070 | red |
| br5 | 2 | 1484 | 8000U-070 | red |
| br6 | 2 | 1477 | 8000U-070 | red |
| br7 | 2 | 1385 | 8000U-070 | red |
| br8 | 2 | 1261 | 8000U-070 | red |
| br9 | 2 | 1237 | 8000U-070 | red |
| br10 | 2 | 1256 | 8000U-070 | red |
| BR1 | 2 | 2880 | 8000U-120 | red |
| BR2 | 2 | 2880 | 8000U-120 | red |
| BR3 | 2 | 2880 | 8000U-120 | red |
| BRI | 2 | 2342 | 989/1.5 | pink |

Line material:

Edelrid 8000U-120
Edelrid 8000U-090
Edelrid 8000U-070
Edelrid 7950-200
Edelrid 7950-150
Edelrid 7950-100
Cousin 989/1.5

| total length | no. of lines |
|--------------|--------------|
| 290361 | 142 |

Line Check Sheet for Paragliders

Piece Check

| | |
|---|------------------|
| Glider Type: XB38 UP Makalu light 22 (LTF/EN B) | Serial No.: |
| Rev. No.: 3 | Date: 19.08.2014 |

Line lengths [mm]

| R. No. | Area | | | | | | | | | | | | | | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|
| | A | | | | B | | | | C | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 6957 | | | | | 6911 | | | | | 6937 | | | | |
| 4 | 6869 | | | | | 6821 | | | | | 6851 | | | | |
| 6 | 6910 | | | | | 6864 | | | | | 6888 | | | | |
| 8 | 6877 | | | | | 6830 | | | | | 6853 | | | | |
| 10 | 6794 | | | | | 6748 | | | | | 6769 | | | | |
| 12 | 6828 | | | | | 6779 | | | | | 6796 | | | | |
| 14 | 6768 | | | | | 6713 | | | | | 6729 | | | | |
| 16 | 6631 | | | | | 6576 | | | | | 6581 | | | | |
| 18 | 6563 | | | | | 6513 | | | | | 6517 | | | | |
| 19 | 6553 | | | | | 6505 | | | | | 6499 | | | | |
| 21 | 6238 | | | | | 6197 | | | | | 6227 | | | | |
| 23 | | | | | | 6070 | | | | | | | | | |
| 23 | | | | | | 6030 | | | | | | | | | |
| 23 | | | | | | 6085 | | | | | | | | | |

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

| R. No. | Area | | | | | | | | | | | | rib no. brakes | | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|----------------|--------|--------|
| | D | | | | Brake | | | | | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 7072 | | | | | 7830 | | | | | | | | | 3 |
| 4 | 6987 | | | | | 7498 | | | | | | | | | 5-6 |
| 6 | 7021 | | | | | 7381 | | | | | | | | | 8 |
| 8 | 6982 | | | | | 7218 | | | | | | | | | 10 |
| 10 | 6893 | | | | | 7066 | | | | | | | | | 12 |
| 12 | 6900 | | | | | 7059 | | | | | | | | | 14 |
| 14 | 6794 | | | | | 6963 | | | | | | | | | 16 |
| 16 | 6629 | | | | | 6834 | | | | | | | | | 18 |
| 18 | | | | | | 6809 | | | | | | | | | 20 |
| 19 | | | | | | 6828 | | | | | | | | | 22 |
| 21 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |

brakes measured inkl. 10cm-loop

| Loops on Quick links | | Loop Index | MTS |
|----------------------|------------|------------|-----|
| Factory setting | | | |
| A1 | -- | 0 | 0 |
| A2 | -- | 0 | 0 |
| A3 | -- | 0 | 0 |
| B1 | -- | 0 | 0 |
| B2 | -- | 0 | 0 |
| B3 | -- | 0 | 0 |
| C1 | Round turn | 1 | 1 |
| C2 | Round turn | 1 | 1 |
| C3 | Round turn | 1 | 1 |
| STI | Round turn | 1 | 1 |

Single Line Lengths

Glider Type: UP Makalu light 22 (LTF/EN B)
Rev. No.: 3

Serial No.:
Date: 19.08.2014

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| a1 | 2 | 2024 | 8000U-120 | red |
| a2 | 2 | 1936 | 8000U-120 | red |
| a3 | 2 | 1977 | 8000U-120 | red |
| a4 | 2 | 1944 | 8000U-120 | red |
| a5 | 2 | 1861 | 8000U-120 | red |
| a6 | 2 | 1895 | 8000U-120 | red |
| a7 | 2 | 1836 | 8000U-090 | red |
| a8 | 2 | 1699 | 8000U-090 | red |
| a9 | 2 | 383 | 8000U-070 | red |
| a10 | 2 | 373 | 8000U-070 | red |
| a11 | 2 | 1298 | 8000U-070 | red |
| b1 | 2 | 1978 | 8000U-120 | red |
| b2 | 2 | 1888 | 8000U-120 | red |
| b3 | 2 | 1931 | 8000U-120 | red |
| b4 | 2 | 1897 | 8000U-120 | red |
| b5 | 2 | 1815 | 8000U-120 | red |
| b6 | 2 | 1846 | 8000U-120 | red |
| b7 | 2 | 1781 | 8000U-090 | red |
| b8 | 2 | 1644 | 8000U-090 | red |
| b9 | 2 | 333 | 8000U-070 | red |
| b10 | 2 | 325 | 8000U-070 | red |
| b11 | 2 | 1257 | 8000U-070 | red |
| c1 | 2 | 2013 | 8000U-090 | red |
| c2 | 2 | 1927 | 8000U-090 | red |
| c3 | 2 | 1964 | 8000U-090 | red |
| c4 | 2 | 1929 | 8000U-090 | red |
| c5 | 2 | 1845 | 8000U-090 | red |
| c6 | 2 | 1872 | 8000U-090 | red |
| c7 | 2 | 1796 | 8000U-070 | red |
| c8 | 2 | 1648 | 8000U-070 | red |
| c9 | 2 | 338 | 8000U-070 | red |
| c10 | 2 | 320 | 8000U-070 | red |
| c11 | 2 | 1287 | 8000U-070 | red |
| d1 | 2 | 2148 | 8000U-070 | red |
| d2 | 2 | 2063 | 8000U-070 | red |
| d3 | 2 | 2097 | 8000U-070 | red |
| d4 | 2 | 2058 | 8000U-070 | red |
| d5 | 2 | 1969 | 8000U-070 | red |
| d6 | 2 | 1976 | 8000U-070 | red |
| d7 | 2 | 1861 | 8000U-070 | red |
| d8 | 2 | 1696 | 8000U-070 | red |

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| AM1 | 2 | 1250 | 8000U-090 | red |
| BM1 | 2 | 1250 | 8000U-090 | red |
| CM1 | 2 | 1250 | 8000U-090 | red |
| AI | 2 | 4945 | 7950-200 | red |
| AII | 2 | 4945 | 7950-200 | red |
| AIII | 2 | 4950 | 7950-150 | green |
| BI | 2 | 4945 | 7950-200 | blue |
| BII | 2 | 4945 | 7950-200 | blue |
| BIII | 2 | 4950 | 7950-150 | blue |
| CI | 2 | 4960 | 7950-200 | yellow |
| CII | 2 | 4960 | 7950-200 | yellow |
| CIII | 2 | 4965 | 7950-150 | yellow |
| st1 | 2 | 1130 | 8000U-070 | red |
| st2 | 2 | 1090 | 8000U-070 | red |
| st3 | 2 | 1145 | 8000U-070 | red |
| STI | 2 | 4960 | 7950-100 | violet |

| Brake no. | Quantity | Length [mm] | material | colour |
|-----------|----------|-------------|-----------|--------|
| br1 | 2 | 2310 | 8000U-070 | red |
| br2 | 2 | 1978 | 8000U-070 | red |
| br3 | 2 | 1861 | 8000U-070 | red |
| br4 | 2 | 1698 | 8000U-070 | red |
| br5 | 2 | 1546 | 8000U-070 | red |
| br6 | 2 | 1539 | 8000U-070 | red |
| br7 | 2 | 1443 | 8000U-070 | red |
| br8 | 2 | 1314 | 8000U-070 | red |
| br9 | 2 | 1289 | 8000U-070 | red |
| br10 | 2 | 1308 | 8000U-070 | red |
| BR1 | 2 | 3000 | 8000U-120 | red |
| BR2 | 2 | 3000 | 8000U-120 | red |
| BR3 | 2 | 3000 | 8000U-120 | red |
| BRI | 2 | 2435 | 989/1.5 | pink |

Line material:

Edelrid 8000U-120
Edelrid 8000U-090
Edelrid 8000U-070
Edelrid 7950-200
Edelrid 7950-150
Edelrid 7950-100
Cousin 989/1.5

| total length | no. of lines |
|--------------|--------------|
| 302178 | 142 |

Line Check Sheet for Paragliders

Piece Check

| | |
|---|------------------|
| Glider Type: XB38 UP Makalu light 24 (LTF/EN B) | Serial No.: |
| Rev. No.: 3 | Date: 19.08.2014 |

Line lengths [mm]

| R. No. | Area | | | | | | | | | | | | | | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|
| | A | | | | B | | | | C | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 7271 | | | | | 7223 | | | | | 7256 | | | | |
| 4 | 7179 | | | | | 7129 | | | | | 7162 | | | | |
| 6 | 7221 | | | | | 7174 | | | | | 7205 | | | | |
| 8 | 7187 | | | | | 7138 | | | | | 7168 | | | | |
| 10 | 7100 | | | | | 7052 | | | | | 7081 | | | | |
| 12 | 7136 | | | | | 7085 | | | | | 7109 | | | | |
| 14 | 7073 | | | | | 7021 | | | | | 7033 | | | | |
| 16 | 6930 | | | | | 6873 | | | | | 6874 | | | | |
| 18 | 6859 | | | | | 6807 | | | | | 6812 | | | | |
| 19 | 6849 | | | | | 6799 | | | | | 6793 | | | | |
| 21 | 6520 | | | | | 6477 | | | | | 6508 | | | | |
| 23 | | | | | | 6344 | | | | | | | | | |
| 23 | | | | | | 6302 | | | | | | | | | |
| 23 | | | | | | 6360 | | | | | | | | | |

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

| R. No. | Area | | | | | | | | | | | | rib no. brakes | | |
|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|--------|--------|----------------|--------|--------|
| | D | | | | Brake | | | | | | | | | | |
| | Left | | Right | | Left | | Right | | Left | | Right | | | | |
| | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm | -20 mm | -10 mm | 0 mm | +10 mm | +20 mm |
| | Nom. | | | | | Nom. | | | | | Nom. | | | | |
| 2 | 7397 | | | | | 8226 | | | | | | | | | 3 |
| 4 | 7303 | | | | | 7879 | | | | | | | | | 5-6 |
| 6 | 7339 | | | | | 7757 | | | | | | | | | 8 |
| 8 | 7303 | | | | | 7586 | | | | | | | | | 10 |
| 10 | 7210 | | | | | 7428 | | | | | | | | | 12 |
| 12 | 7217 | | | | | 7420 | | | | | | | | | 14 |
| 14 | 7101 | | | | | 7320 | | | | | | | | | 16 |
| 16 | 6929 | | | | | 7185 | | | | | | | | | 18 |
| 18 | | | | | | 7159 | | | | | | | | | 20 |
| 19 | | | | | | 7179 | | | | | | | | | 22 |
| 21 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |

brakes measured inkl. 10cm-loop

| Loops on Quick links | | Loop Index | MTS |
|----------------------|------------|------------|-----|
| Factory setting | | | |
| A1 | -- | 0 | 0 |
| A2 | -- | 0 | 0 |
| A3 | -- | 0 | 0 |
| B1 | -- | 0 | 0 |
| B2 | -- | 0 | 0 |
| B3 | -- | 0 | 0 |
| C1 | Round turn | 1 | 1 |
| C2 | Round turn | 1 | 1 |
| C3 | Round turn | 1 | 1 |
| STI | Round turn | 1 | 1 |

Single Line Lengths

Glider Type: UP Makalu light 24 (LTF/EN B)
Rev. No.: 3

Serial No.:
Date: 19.08.2014

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| a1 | 2 | 2115 | 8000U-120 | red |
| a2 | 2 | 2023 | 8000U-120 | red |
| a3 | 2 | 2066 | 8000U-120 | red |
| a4 | 2 | 2031 | 8000U-120 | red |
| a5 | 2 | 1945 | 8000U-120 | red |
| a6 | 2 | 1980 | 8000U-120 | red |
| a7 | 2 | 1919 | 8000U-090 | red |
| a8 | 2 | 1775 | 8000U-090 | red |
| a9 | 2 | 400 | 8000U-070 | red |
| a10 | 2 | 390 | 8000U-070 | red |
| a11 | 2 | 1356 | 8000U-070 | red |
| b1 | 2 | 2067 | 8000U-120 | red |
| b2 | 2 | 1973 | 8000U-120 | red |
| b3 | 2 | 2018 | 8000U-120 | red |
| b4 | 2 | 1982 | 8000U-120 | red |
| b5 | 2 | 1897 | 8000U-120 | red |
| b6 | 2 | 1929 | 8000U-120 | red |
| b7 | 2 | 1866 | 8000U-090 | red |
| b8 | 2 | 1718 | 8000U-090 | red |
| b9 | 2 | 348 | 8000U-070 | red |
| b10 | 2 | 340 | 8000U-070 | red |
| b11 | 2 | 1314 | 8000U-070 | red |
| c1 | 2 | 2104 | 8000U-090 | red |
| c2 | 2 | 2008 | 8000U-090 | red |
| c3 | 2 | 2052 | 8000U-090 | red |
| c4 | 2 | 2016 | 8000U-090 | red |
| c5 | 2 | 1928 | 8000U-090 | red |
| c6 | 2 | 1956 | 8000U-090 | red |
| c7 | 2 | 1877 | 8000U-070 | red |
| c8 | 2 | 1717 | 8000U-070 | red |
| c9 | 2 | 353 | 8000U-070 | red |
| c10 | 2 | 334 | 8000U-070 | red |
| c11 | 2 | 1345 | 8000U-070 | red |
| d1 | 2 | 2245 | 8000U-070 | red |
| d2 | 2 | 2151 | 8000U-070 | red |
| d3 | 2 | 2186 | 8000U-070 | red |
| d4 | 2 | 2151 | 8000U-070 | red |
| d5 | 2 | 2058 | 8000U-070 | red |
| d6 | 2 | 2065 | 8000U-070 | red |
| d7 | 2 | 1945 | 8000U-070 | red |
| d8 | 2 | 1772 | 8000U-070 | red |

| Line no. | Quantity | Length [mm] | material | colour |
|----------|----------|-------------|-----------|--------|
| AM1 | 2 | 1306 | 8000U-090 | red |
| BM1 | 2 | 1306 | 8000U-090 | red |
| CM1 | 2 | 1306 | 8000U-090 | red |
| AI | 2 | 5168 | 7950-200 | red |
| AII | 2 | 5168 | 7950-200 | red |
| AIII | 2 | 5173 | 7950-150 | green |
| BI | 2 | 5168 | 7950-200 | blue |
| BII | 2 | 5168 | 7950-200 | blue |
| BIII | 2 | 5173 | 7950-150 | blue |
| CI | 2 | 5188 | 7950-200 | yellow |
| CII | 2 | 5188 | 7950-200 | yellow |
| CIII | 2 | 5188 | 7950-150 | yellow |
| st1 | 2 | 1181 | 8000U-070 | red |
| st2 | 2 | 1139 | 8000U-070 | red |
| st3 | 2 | 1197 | 8000U-070 | red |
| STI | 2 | 5183 | 7950-100 | violet |

| Brake no. | Quantity | Length [mm] | material | colour |
|-----------|----------|-------------|-----------|--------|
| br1 | 2 | 2414 | 8000U-070 | red |
| br2 | 2 | 2067 | 8000U-070 | red |
| br3 | 2 | 1945 | 8000U-070 | red |
| br4 | 2 | 1774 | 8000U-070 | red |
| br5 | 2 | 1616 | 8000U-070 | red |
| br6 | 2 | 1608 | 8000U-070 | red |
| br7 | 2 | 1508 | 8000U-070 | red |
| br8 | 2 | 1373 | 8000U-070 | red |
| br9 | 2 | 1347 | 8000U-070 | red |
| br10 | 2 | 1367 | 8000U-070 | red |
| BR1 | 2 | 3135 | 8000U-120 | red |
| BR2 | 2 | 3135 | 8000U-120 | red |
| BR3 | 2 | 3135 | 8000U-120 | red |
| BRI | 2 | 2592 | 989/1.5 | pink |

Line material:

Edelrid 8000U-120
Edelrid 8000U-090
Edelrid 8000U-070
Edelrid 7950-200
Edelrid 7950-150
Edelrid 7950-100
Cousin 989/1.5

| total length | no. of lines |
|--------------|--------------|
| 315860 | 142 |