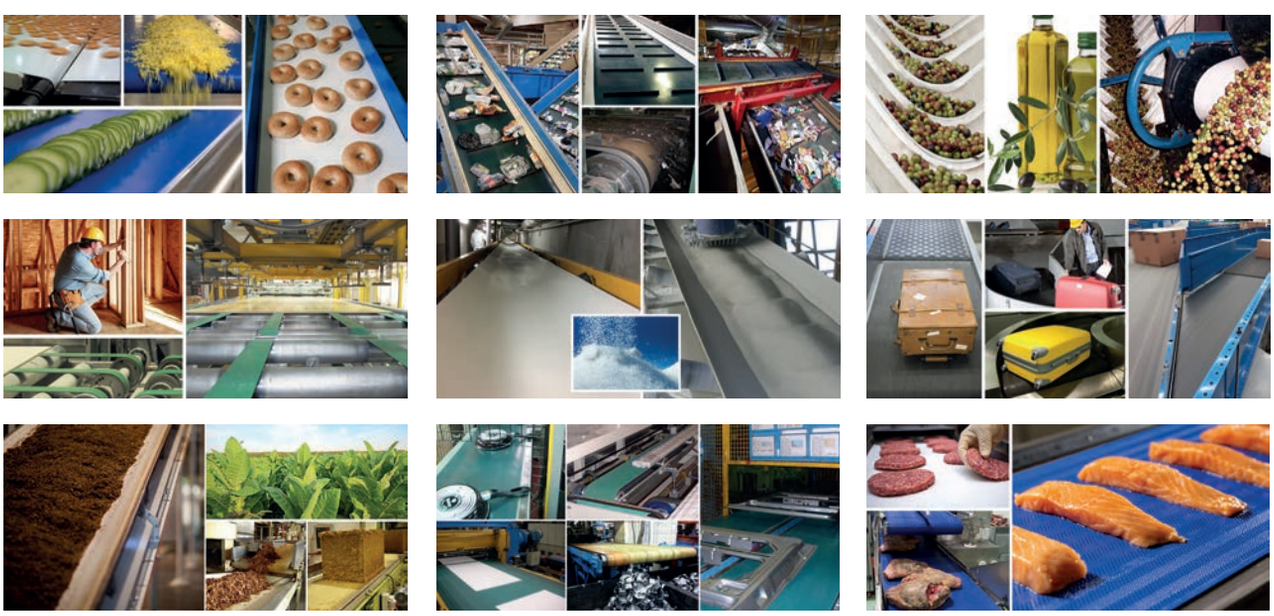
esbelt
Conveyor belts

# Conveyor and Process Belts

Profiles
Round & Vee belts
Flat belts
Buckets

2024



QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001

esbelt.com

# Industrial & General Purpose Belts

| | Belt type | Top cover | | | | | Bottom cover | | | | | Special characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Material | Hardness °ShA | Color | Thickness mm | Finish | Material | Hardness °ShA | Color | Thickness mm | Finish | |
| Aster | **A12 G2F** | PVC | 55 | Green 00 | 4,00 | Pattern G2 | | | Natural | | Fabric | |
| | **A12 G2R** | PVC | 65 | Green 00 | 3,70 | Pattern G2 | PVC | | Green 00 | 0,10 | Impregn. | |
| | **A13 QF** | PVC | 45 | Green 00 | 1,70 | Pattern Q | | | Natural | | Fabric | |
| | **A15 G2F** | PVC | 55 | Black 02 | 4,00 | Pattern G2 | LFR | | Grey 00 | 0,10 | Impregn. | S |
| | **A15 QF** | PVC | 55 | Black 02 | 1,70 | Pattern Q | LFR | | Grey 00 | 0,10 | Impregn. | S |
| | **A15 W3F** | PVC | 65 | Black 02 | 5,00 | Pattern W3 | LFR | | Grey 00 | 0,10 | Impregn. | S |
| | **A20 AF** | PVC | 75 | Green 00 | 1,20 | Pattern A | | | Natural | | Fabric | |
| | **A20 G2F** | PVC | 55 | Green 00 | 4,00 | Pattern G2 | | | Natural | | Fabric | S |
| | **A24 QF** | PVC | 45 | Red 01 | 4,50 | Pattern Q | | | Natural | | Fabric | |
| | **A33 QF** | PVC | 45 | Green 00 | 3,40 | Pattern Q | | | Natural | | Fabric | |
| Breda | **BX10 UFMT** | PU | 93 | Green 09 | 0,30 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU* |
| | **B12 UF$^{V}$** | PU | 93 | Green 09 | 0,30 | Smooth | | | Natural | | WP | FDA EU |
| | **B12 UF MTBK$^{V}$** | PU | 93 | Black 01 | 0,30 | Mat | | | Natural | | WP | |
| | **B20 UF$^{V}$** | PU | 93 | Green 09 | 0,50 | Smooth | | | Natural | | Fabric | FDA EU |
| | **B21 UF MTBK$^{V}$** | PU | 93 | Black 01 | 1,50 | Mat | PU | | Natural | 0,10 | Impregn. | |
| | **B22 UF TR$^{V}$** | PU | 93 | Transp. | 1,80 | Smooth | hard PVC | | White | 0,10 | Impregn. | FDA EU |
| | **B31 UF MTBK$^{V}$** | PU | 93 | Black 01 | 1,75 | Mat | PU | | Natural | 0,10 | Impregn. | |
| | **B07 CF** | PVC | 82 | Green 00 | 0,50 | Smooth | | | Natural | | Fabric | |
| | **B12 CF** | PVC | 82 | Green 00 | 0,50 | Smooth | | | Natural | | Fabric | |
| | **B12 CK** | PVC | 82 | Green 00 | 0,50 | Smooth | PVC | 90 | Green 00 | 0,70 | Pattern K | |
| | **B20 CF** | PVC | 82 | Green 00 | 1,00 | Smooth | | | Natural | | Fabric | |
| | **B20 CK** | PVC | 82 | Green 00 | 1,00 | Smooth | PVC | 90 | Green 00 | 0,70 | Pattern K | |
| | **B20 FF** | | | Black 00 | | Fabric | | | Natural | | Fabric | S |
| | **B22 CF** | PVC | 82 | Green 00 | 2,00 | Smooth | | | Natural | | Fabric | |
| | **B23 CF** | PVC | 45 | Green 00 | 3,00 | Smooth | | | Natural | | Fabric | |
| | **B24 CF** | PVC | 45 | Red 01 | 4,00 | Smooth | | | Natural | | Fabric | |
| | **B25 CF** | PVC | 82 | Green 00 | 1,00 | Smooth | | | Natural | | Fabric | |
| | **B30 CF** | PVC | 82 | Green 00 | 2,00 | Smooth | | | Natural | | Fabric | |
| | **B33 CF** | PVC | 45 | Green 00 | 3,00 | Smooth | | | Natural | | Fabric | |
| Drago | **D20 CC** | PVC | 78 | Green 00 | 1,00 | Smooth | PVC | 78 | Green 00 | 1,00 | Smooth | |
| | **D30 AR** | PVC | 78 | Green 00 | 2,20 | Pattern A | PVC | | Green 00 | 0,10 | Impregn. | |
| | **D30 CC** | PVC | 78 | Green 00 | 2,00 | Smooth | PVC | 78 | Green 00 | 1,00 | Smooth | |
| | **D30 CR** | PVC | 78 | Green 00 | 2,00 | Smooth | PVC | | Green 00 | 0,10 | Impregn. | |
| | **D40 CC** | PVC | 78 | Green 00 | 2,00 | Smooth | PVC | 78 | Green 00 | 1,00 | Smooth | |
| | **D81 CC** | PVC | 78 | Green 00 | 1,00 | Smooth | PVC | 78 | Green 00 | 1,00 | Smooth | |
| | **D90 C3R** | PVC | 75 | Green 00 | 2,45 | Pattern C3 | hard PVC | | Green 00 | 0,10 | Impregn. | |
| Febor | **F10 NF** | PVC | 76 | Black 04 | 0,50 | Mat | | | Natural | | Fabric | S |
| | **F15 NF** | PVC | 82 | Black 01 | 0,50 | Mat | LFR | | Grey 00 | 0,10 | Impregn. | S |
| | **F19 NF** | PVC | 82 | Black 01 | 0,90 | Mat | LFR | | Grey 00 | 0,10 | Impregn. | S |
| | **F21 NF** | PVC | 82 | Black 01 | 0,60 | Mat | LFR | | Grey 00 | 0,10 | Impregn. | |
| | **F21 Y3F** | PVC | 82 | Black 01 | 0,60 | Pattern Y3 | LFR | | Grey 00 | 0,10 | Impregn. | |
| | **F22 FF** | RC | | Black 00 | 0,10 | Impregn. | LFR | | Grey 00 | 0,10 | Impregn. | S |
| | **F07 CC GR EU** | PVC | 85 | Green 00 | 0,50 | Smooth | PVC | 85 | Green 00 | 0,30 | Smooth | FDA EU |
| | **F12 CF GR EU** | PVC | 85 | Green 00 | 0,50 | Smooth | | | Natural | | Fabric | FDA EU |
| | **F14 CF GR EU** | PVC | 85 | Green 00 | 1,00 | Smooth | | | Natural | | Fabric | FDA EU |
| | **F18 CF GR EU** | PVC | 85 | Green 00 | 1,00 | Smooth | | | Natural | | Fabric | FDA EU |
| | **F20 CK** | PVC | 78 | Green 00 | 0,70 | Smooth | PVC | 90 | Green 00 | 0,70 | Pattern K | |
| | **F30 CF** | PVC | 78 | Green 00 | 0,70 | Smooth | | | Natural | | Fabric | |
| | **F30 RR** | PVC | | Transp. | 0,10 | Impregn. | PVC | | Transp. | 0,10 | Impregn. | |
| Hipro | **H12 Y1R** | HPVC | 75 | Green 23 | 0,60 | Pattern Y1 | RC | | Black 00 | 0,10 | Impregn. | S |
| | **H13 GR** | HPVC | 75 | Green 23 | 4,80 | Pattern G | RC | | Black 00 | 0,10 | Impregn. | |
| | **H18 Y1R** | HPVC | 75 | Green 23 | 0,80 | Pattern Y1 | RC | | Black 00 | 0,10 | Impregn. | S |
| Keram | **K40 AF** | PU | 93 | Green 09 | 1,20 | Pattern A | | | Natural | | Fabric | FDA EU SW |
| | **K40 RF** | PVC | | Black 03 | 0,10 | Impregn. | | | Natural | | Fabric | SW |
| | **K40 UF** | PU | 93 | Green 09 | 1,00 | Smooth | | | Natural | | Fabric | FDA EU SW |

= Airports & Logistic Centers Conveyor Belts.

LFR = Low Friction Resin  CR = Conductive Resin  WP = Low-capillary fabric "Water Proof"  $^{V}$ = PVC between plies

| Constant (intermittent) temperature °C | Fabrics | | Belt thickness | Belt weight | at 20°C A ⟷ B | | Breaking load | Working load at 1% elongation | Working load at 1.5% elongation | Max. roll width | Belt type | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N° of plies | Weft | mm | kg/m² | Ø mm | Ø mm | N/mm | N/mm | N/mm | mm | | |
| -5 (-15) +80 (100) | 2 | Rigid | 5,50 | 4,20 | 45 | 70 | 120 | 8 | 12 | 2000 | **A12 G2F** | Aster |
| -5 (-15) +80 (100) | 2 | Rigid | 6,30 | 4,50 | 50 | 70 | 160 | 10 | 15 | 2000 | **A12 G2R** | |
| -5 (-15) +80 (100) | 2 | Rigid | 3,20 | 3,40 | 45 | 70 | 120 | 9 | 13 | 2-3000 | **A13 QF** | |
| -10 (-15) +80 (100) | 2 | Rigid | 5,50 | 4,20 | 45 | 70 | 160 | 15 | 22 | 2000 | **A15 G2F** | |
| -10 (-15) +80 (100) | 2 | Rigid | 3,20 | 3,40 | 50 | 60 | 160 | 15 | 22 | 2-3000 | **A15 QF** | |
| -10 (-15) +80 (100) | 2 | Rigid | 7,50 | 5,00 | 60 | 100 | 150 | 10 | 16 | 600 | **A15 W3F** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,90 | 3,20 | 55 | 80 | 200 | 14 | 20 | 3000 | **A20 AF** | |
| -5 (-15) +80 (100) | 2 | Rigid | 5,80 | 4,00 | 55 | 90 | 160 | 16 | 22 | 2000 | **A20 G2F** | |
| -5 (-15) +80 (100) | 2 | Rigid | 6,40 | 6,90 | 50 | 80 | 160 | 14 | 22 | 2000 | **A24 QF** | |
| -5 (-15) +80 (100) | 3 | Rigid | 6,40 | 7,00 | 150 | 200 | 300 | 20 | 28 | 2000 | **A33 QF** | |
| -10 (-15) +90 (110) | 2 | Rigid | 1,45 | 1,60 | 9 | 40 | 120 | 10 | 18 | 1250 | **BX10 UFMT** | Breda |
| -10 (-15) +80 (105) | 2 | Rigid | 1,60 | 1,90 | 40 | 60 | 120 | 10 | 16 | 2000 | **B12 UF$^{V}$** | |
| -10 (-15) +80 (105) | 2 | Rigid | 1,50 | 1,80 | 20 | 50 | 120 | 10 | 16 | 2-3000 | **B12 UF MTBK$^{V}$** | |
| -10 (-15) +80 (105) | 2 | Rigid | 2,20 | 2,60 | 60 | 80 | 200 | 18 | 25 | 2000 | **B20 UF$^{V}$** | |
| -5 (-15) +80 (105) | 2 | Rigid | 4,00 | 4,30 | 100 | 200 | 180 | 12 | 18 | 3000 | **B21 UF MTBK$^{V}$** | |
| -5 (-15) +80 (105) | 2 | Rigid | 4,30 | 5,10 | 100 | 200 | 200 | 15 | 23 | 3000 | **B22 UF TR$^{V}$** | |
| -5 (-15) +80 (105) | 3 | Rigid | 6,00 | 6,75 | 230 | 230 | 500 | 32 | 50 | 3000 | **B31 UF MTBK$^{V}$** | |
| -5 (-15) +80 (100) | 1 | Rigid | 1,00 | 1,10 | 10 | 25 | 60 | 5 | 7 | 3000 | **B07 CF** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,10 | 2,50 | 35 | 55 | 120 | 10 | 15 | 3000 | **B12 CF** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,70 | 2,95 | 50 | 50 | 120 | 7 | 12 | 2000 | **B12 CK** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,90 | 3,50 | 55 | 75 | 200 | 15 | 22 | 3000 | **B20 CF** | |
| -5 (-15) +80 (100) | 2 | Extra rigid | 3,50 | 4,00 | 70 | 70 | 140 | 9 | 15 | 2000 | **B20 CK** | |
| -10 (-15) +80 (100) | 2 | Rigid | 2,40 | 2,70 | 60 | 60 | 190 | 15 | 20 | 3000 | **B20 FF** | |
| -5 (-15) +80 (100) | 2 | Rigid | 4,00 | 4,80 | 80 | 100 | 200 | 17 | 25 | 3000 | **B22 CF** | |
| -5 (-15) +80 (100) | 2 | Rigid | 4,80 | 5,80 | 80 | 120 | 200 | 15 | 22 | 3000 | **B23 CF** | |
| -5 (-15) +80 (100) | 2 | Rigid | 6,00 | 6,90 | 50 | 80 | 160 | 14 | 22 | 2000 | **B24 CF** | |
| -5 (-15) +80 (100) | 3 | Rigid | 4,00 | 4,80 | 100 | 120 | 275 | 22 | 30 | 3000 | **B25 CF** | |
| -5 (-15) +80 (100) | 3 | Rigid | 4,90 | 5,80 | 120 | 150 | 300 | 22 | 30 | 3000 | **B30 CF** | |
| -5 (-15) +80 (100) | 3 | Rigid | 6,00 | 7,00 | 130 | 200 | 300 | 20 | 28 | 3000 | **B33 CF** | |
| -15 (-25) +80 (100) | 2 | Flexible | 4,10 | 5,10 | 140 | 140 | 200 | 20 | 28 | 2000 | **D20 CC** | Drago |
| -15 (-25) +80 (100) | 3 | Flexible | 5,60 | 6,50 | 180 | 200 | 300 | 25 | 40 | 2000 | **D30 AR** | |
| -15 (-25) +80 (100) | 3 | Flexible | 6,20 | 7,70 | 200 | 250 | 300 | 30 | 40 | 2000 | **D30 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 5,40 | 6,50 | 180 | 200 | 300 | 25 | 40 | 2000 | **D30 CR** | |
| -15 (-25) +80 (100) | 4 | Flexible | 7,40 | 9,20 | 300 | 350 | 400 | 35 | 50 | 2000 | **D40 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 7,80 | 9,60 | 400 | 400 | 800 | 65 | 95 | 2000 | **D81 CC** | |
| -5 (-15) +80 (100) | 3 | Flexible | 7,00 | 8,00 | 300 | 380 | 800 | 55 | 85 | 3000 | **D90 C3R** | |
| -5 (-15) +80 (100) | 2 | Rigid | 1,90 | 2,20 | 35 | 55 | 120 | 10 | 15 | 3000 | **F10 NF** | Febor |
| -10 (-15) +80 (100) | 2 | Rigid | 2,10 | 2,50 | 40 | 60 | 160 | 15 | 22 | 3000 | **F15 NF** | |
| -10 (-15) +80 (100) | 2 | Rigid | 2,50 | 3,10 | 40 | 60 | 180 | 17 | 25 | 3000 | **F19 NF** | |
| -10 (-15) +80 (100) | 2 | Flexible | 2,50 | 3,00 | 40 | 60 | 160 | 6 | 9 | 3000 | **F21 NF** | |
| -10 (-15) +80 (100) | 2 | Flexible | 2,40 | 2,70 | 40 | 60 | 200 | 20 | 30 | 3000 | **F21 Y3F** | |
| -10 (-15) +80 (100) | 2 | Rigid | 2,40 | 2,85 | 60 | 60 | 180 | 14 | 19 | 3000 | **F22 FF** | |
| -5 (-15) +80 (100) | 1 | Rigid | 1,30 | 1,60 | 10 | 30 | 60 | 5 | 7 | 2000 | **F07 CC GR EU** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,00 | 2,40 | 35 | 55 | 120 | 10 | 15 | 3000 | **F12 CF GR EU** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,50 | 2,90 | 40 | 60 | 120 | 10 | 15 | 3000 | **F14 CF GR EU** | |
| -5 (-15) +80 (100) | 3 | Rigid | 3,50 | 4,30 | 80 | 100 | 180 | 12 | 18 | 3000 | **F18 CF GR EU** | |
| -5 (-15) +80 (100) | 2 | Flexible | 2,90 | 3,50 | 75 | 75 | 200 | 20 | 28 | 2000 | **F20 CK** | |
| -5 (-15) +80 (100) | 3 | Flexible | 2,90 | 3,50 | 90 | 140 | 300 | 30 | 45 | 2000 | **F30 CF** | |
| -5 (-10) +80 (100) | 3 | Flexible | 3,40 | 3,80 | 150 | 150 | 300 | 25 | 40 | 3000 | **F30 RR** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,20 | 2,50 | 25 | 50 | 120 | 10 | 15 | 2000 | **H12 Y1R** | Hipro |
| -5 (-15) +80 (100) | 2 | Rigid | 6,50 | 5,00 | 60 | 90 | 200 | 14 | 20 | 2000 | **H13 GR** | |
| -5 (-15) +80 (100) | 3 | Rigid | 3,20 | 3,70 | 50 | 80 | 180 | 15 | 22 | 2000 | **H18 Y1R** | |
| -10 (-15) +80 (105) | 2 | Rigid | 4,20 | 4,20 | 140 | 330 | 400 | 20 | 30 | 2000 | **K40 AF** | Keram |
| -5 (-15) +80 (100) | 2 | Rigid | 4,00 | 4,20 | 60 | 100 | 400 | 22 | 32 | 2000 | **K40 RF** | |
| -10 (-15) +80 (105) | 2 | Rigid | 4,00 | 4,20 | 140 | 330 | 400 | 22 | 32 | 2000 | **K40 UF** | |

**A15W3F:** pitch 111,5mm

- Antistatic
- Antistatic top cover
- Antistatic bottom cover
- **S** Low noise fabric
- **FDA** Food quality
- **EU** Food quality Regulation EU 10/2011
- **EU*** Food quality Regulation 1935/2004
- Low friction coefficient
- ▼ Resistant to mineral oils and fats
- ▽ Resistant to vegetable oils and animal fats
- ▽ Resistant to vegetable oils and fats, and partially resistant to animal oils and fats
- ▽ Partially resistant to vegetable and animal oils and fats
- □ Abrasion resistant
- ■ Cut resistant
- ATEX certified
- Pyrolisis test
- Flame retardant
- **SW** Solid Woven
- **AM** Anti-microbial
- Anti-Hydrolysis
- **FL** Frayless
- **MD** Metal & X-Ray Detectable

# Food conveyor belts

| | Belt type | Top cover | | | | | Bottom cover | | | | | Special characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Material | Hardness °ShA | Color | Thickness mm | Finish | Material | Hardness °ShA | Color | Thickness mm | Finish | |
| Aster | **A10 G2F** | PVC | 45 | White | 4,00 | Pattern G2 | | | Natural | | Fabric | FDA EU |
| | **A21 HF** | PVC | 70 | White | 3,00 | Pattern H | | | Natural | | WP | FDA EU |
| | **A21 LF** | PVC | 70 | White | 3,50 | Pattern L | | | Natural | | WP | FDA EU |
| | **A21 ZK** | PVC | 70 | White | 1,70 | Pattern Z | PVC | 90 | White | 0,70 | Pattern K | FDA EU |
| | **A26 X1C** | PVC | 73 | White | 15,50 | Profile X1 | PVC | 73 | White | 1,00 | Smooth | FDA EU |
| | **A26 XC** | PVC | 73 | White | 15,50 | Profile X | PVC | 73 | White | 1,00 | Smooth | FDA EU |
| | **A36 X1C** | PVC | 73 | White | 15,80 | Profile X1 | PVC | 73 | White | 0,70 | Smooth | FDA EU |
| Standard TPU | **CS06 UF** | PU | 86 | Ocher 01 | 0,25 | Smooth | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CSX06 K1F** | PU | 86 | Ocher 01 | 0,32 | Pattern K1 | PU | | Natural | 0,10 | W Impregn. | FDA EU* |
| | **CS07 UF** | PU | 86 | White | 0,25 | Smooth | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS07 UFMT** | PU | 86 | White | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CSX08 AF-BR** | PU | 86 | Brown 00 | 0,50 | Pattern A | PU | | Natural | 0,10 | W Impregn. | FDA EU* |
| | **CSX08 DF** | PU | 86 | White | 0,50 | Pattern D | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS08 UF** | PU | 86 | White | 0,25 | Smooth | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS08 UFMT** | PU | 86 | White | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS09 FF** | PU | | Natural | 0,10 | W Impregn. | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS09 UF** | PU | 86 | White | 0,25 | Smooth | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS09 UFMT** | PU | 86 | White | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS10 FF** | | | Natural | | Cotton-Poly. | | | Natural | | Cotton-Poly. | FDA EU |
| | **CS10 UFMT** | PU | 86 | White | 0,40 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **CS12 UF$^{V}$** | PU | 86 | White | 0,30 | Smooth | | | Natural | | WP | FDA EU |
| | **C12 UFMT$^{V}$** | PU | 93 | White | 0,30 | Mat | | | Natural | | WP | FDA EU |
| | **CS20 UFMT** | PU | 93 | White | 0,80 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **NS07 AY** | PU | 86 | Blue 06 | 0,60 | Pattern A | PU | 86 | Blue 06 | 0,45 | Pattern Y | FDA EU |
| | **NS07 UFMT** | PU | 86 | Blue 06 | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **N07 UU** | PU | | Blue 06 | 0,10 | W Impregn. | PU | | Blue 06 | 0,10 | W Impregn. | FDA EU* |
| | **NS08 UFMT** | PU | 86 | Blue 06 | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **NS09 UF** | PU | 86 | Blue 06 | 0,25 | Smooth | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **NS09 UFMT** | PU | 86 | Blue 06 | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **NS09UFMT-H-BL08** | PU | 93 | Blue 08 | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **NS11UFMT** | PU | 93 | Blue 06 | 0,60 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| | **NS20 UFMT** | PU | 93 | Blue 06 | 0,80 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU |
| Premium TPU | **CP07AY-AM** | PU | 85 | White | 0,60 | Pattern A | PU | 85 | White | 0,45 | Pattern Y | FDA EU AM |
| | **CP07UFMT-AM** | PU | 85 | White | 0,25 | Mat | PU | | Blue 10 | 0,10 | W Impregn. | FDA EU AM |
| | **CP09UFMT-AM** | PU | 85 | White | 0,25 | Mat | PU | | Blue 10 | 0,10 | W Impregn. | FDA EU AM |
| | **CPX09UA2MT-AM** | PU | 85 | White | 0,30 | Mat | PU | 85 | White | 0,55 | Pattern A2 | FDA EU AM |
| | **CP10UFMT-AM-FL** | PU | 85 | White | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU AM FL |
| | **NP07UFMT-AM** | PU | 85 | Blue 06 | 0,25 | Mat | PU | | Blue 10 | 0,10 | W Impregn. | FDA EU AM |
| | **NP09DF-AM** | PU | 85 | Blue 06 | 0,50 | Pattern D | PU | | Blue 10 | 0,10 | W Impregn. | FDA EU AM |
| | **NP09FF** | PU | | Blue 10 | 0,10 | W Impregn. | PU | | Blue 10 | 0,10 | W Impregn. | FDA EU |
| | **NP09UFMT-AM** | PU | 85 | Blue 06 | 0,25 | Mat | PU | | Blue 10 | 0,10 | W Impregn. | FDA EU AM |
| | **NP09UFMTMD-BL09** | PU | 85 | Blue 09 | 0,25 | Mat | PU | | Blue 10 | 0,10 | W Impregn. | FDA EU MD |
| | **NPX09UA2MT-AM** | PU | 85 | Blue 06 | 0,30 | Mat | PU | 85 | Blue 06 | 0,55 | Pattern A2 | FDA EU AM |
| | **NPX20UA2MT-AM** | PU | 85 | Blue 06 | 0,50 | Mat | PU | 85 | Blue 06 | 0,95 | Pattern A2 | FDA EU AM |
| | **NP10UFMT-AM-FL** | PU | 85 | Blue 06 | 0,25 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU AM FL |
| | **NP13UFMT-AM-FL** | PU | 85 | Blue 06 | 0,55 | Mat | PU | | Natural | 0,10 | W Impregn. | FDA EU AM FL |
| Clina (PVC) | **C07 CF** | PVC | 70 | White | 0,50 | Smooth | | | Natural | | WP | FDA EU |
| | **C07 JF** | Felt | | White | | Felt | | | Natural | | Fabric | |
| | **C12 CF** | PVC | 70 | White | 0,50 | Smooth | | | Natural | | WP | FDA EU |
| | **C12 DF** | PVC | 70 | White | 0,70 | Pattern D | | | Natural | | WP | FDA EU |
| | **C13 FF** | | | Natural | | Fabric | | | Natural | | Fabric | FDA EU |
| | **C16 FF** | | | Natural | | Cotton-Poly. | | | Natural | | Cotton-Poly. | FDA EU |
| | **C17 CF** | PVC | 76 | White | 1,00 | Smooth | hard PVC | | White | 0,10 | Impregn. | FDA EU SW |
| | **C20 CF** | PVC | 70 | White | 0,80 | Smooth | | | Natural | | WP | FDA EU |
| | **C20 CK** | PVC | 70 | White | 1,50 | Smooth | PVC | 90 | White | 0,70 | Pattern K | FDA EU |
| | **C21 CK** | PVC | 70 | White | 0,50 | Smooth | PVC | 90 | White | 0,70 | Pattern K | FDA EU |
| | **C22 CF** | PVC | 70 | White | 2,00 | Smooth | | | Natural | | WP | FDA EU |
| | **C30 CF** | PVC | 70 | White | 0,80 | Smooth | | | Natural | | WP | FDA EU |
| | **C30 CK** | PVC | 70 | White | 1,50 | Smooth | PVC | 90 | White | 0,70 | Pattern K | FDA EU |

$^{V}$ = PVC between plies  W impregn. = Impermeabilized fabrics (Wicking Test G11)  WP = Low-capillary fabric "Water Proof" (Wicking Test G11)

| | Constant (intermittent) temperature °C | Fabrics | | Belt thickness | Belt weight | at 20°C A ⟷ B | | Breaking load | Working load at 1% elongation | Working load at 1.5% elongation | Max. roll width | Belt type | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Nº of plies | Weft | mm | kg/m² | Ø mm | Ø mm | N/mm | N/mm | N/mm | mm | | |
| | -5 (-15) +80 (100) | 2 | Rigid | 5,50 | 4,20 | 45 | 70 | 120 | 8 | 12 | 2000 | **A10 G2F** | Aster |
| | -15 (-25) +80 (100) | 2 | Rigid | 5,00 | 4,80 | 80 | 130 | 200 | 14 | 20 | 2000 | **A21 HF** | |
| | -15 (-25) +80 (100) | 2 | Rigid | 5,50 | 4,80 | 100 | 160 | 200 | 14 | 20 | 2000 | **A21 LF** | |
| | -15 (-25) +80 (100) | 2 | Flexible | 4,10 | 4,50 | 80 | 100 | 200 | 20 | 28 | 2000 | **A21 ZK** | |
| | -15 (-25) +80 (100) | 2 | Flexible | 18,60 | 8,00 | 190 | 210 | 200 | 18 | 28 | 800 | **A26 X1C** | |
| | -15 (-25) +80 (100) | 2 | Flexible | 18,60 | 7,60 | 150 | 200 | 200 | 18 | 28 | 600 | **A26 XC** | |
| | -15 (-25) +80 (100) | 3 | Flexible | 19,70 | 9,30 | 230 | 280 | 300 | 28 | 40 | 800 | **A36 X1C** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 0,75 | 0,80 | 4 | 15 | 60 | 5 | 7 | 2200 | **CS06 UF** | Standard TPU |
| | -15 (-20) +90 (110) | 1 | Rigid | 0,82 | 0,90 | 5 | 15 | 60 | 5 | 7 | 1250 | **CSX06 K1F** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 0,75 | 0,80 | 4 | 15 | 60 | 5 | 7 | 2200 | **CS07 UF** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 0,75 | 0,80 | 4 | 15 | 60 | 5 | 7 | 2200 | **CS07 UFMT** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 1,30 | 1,10 | 6 | 20 | 50 | 4 | 6 | 1250 | **CSX08 AF-BR** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 1,20 | 1,10 | 6 | 20 | 50 | 4 | 6 | 1300 | **CSX08 DF** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 1,00 | 1,00 | 6 | 20 | 50 | 4 | 6 | 2200 | **CS08 UF** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 1,00 | 1,00 | 6 | 20 | 50 | 4 | 6 | 2200 | **CS08 UFMT** | |
| | -15 (-25) +90 (110) | 2 | Rigid | 1,20 | 1,20 | 5 | 5 | 120 | 8 | 12 | 2200 | **CS09 FF** | |
| | -15 (-20) +90 (110) | 2 | Rigid | 1,45 | 1,65 | 6 | 30 | 120 | 8 | 12 | 2200 | **CS09 UF** | |
| | -15 (-20) +90 (110) | 2 | Rigid | 1,45 | 1,65 | 6 | 30 | 120 | 8 | 12 | 2200 | **CS09 UFMT** | |
| | -15 (-25) +90 (110) | 2 | Flexible | 1,40 | 1,10 | 10 | 10 | 110 | 6 | 8 | 2200 | **CS10 FF** | |
| | -15 (-20) +90 (110) | 2 | Rigid | 1,65 | 1,95 | 8 | 40 | 120 | 8 | 12 | 2200 | **CS10 UFMT** | |
| | -10 (-15) +80 (105) | 2 | Rigid | 1,60 | 1,90 | 20 | 50 | 120 | 10 | 16 | 2000 | **CS12 UF$^{V}$** | |
| | -10 (-15) +80 (105) | 2 | Rigid | 1,50 | 1,80 | 20 | 50 | 120 | 10 | 16 | 2-3000 | **C12 UFMT$^{V}$** | |
| | -10 (-15) +90 (110) | 2 | Rigid | 2,60 | 3,10 | 60 | 100 | 200 | 12 | 18 | 2100 | **CS20 UFMT** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 1,55 | 1,30 | 10 | 10 | 60 | 5 | 7 | 2000 | **NS07 AY** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 0,75 | 0,80 | 4 | 15 | 60 | 5 | 7 | 2200 | **NS07 UFMT** | |
| | -15 (-25) +90 (110) | 1 | Rigid | 0,45 | 0,35 | 8 | 8 | 60 | 5 | 7 | 3000 | **N07 UU** | |
| | -15 (-20) +90 (110) | 1 | Rigid | 1,00 | 1,00 | 6 | 20 | 50 | 4 | 6 | 2200 | **NS08 UFMT** | |
| | -15 (-20) +90 (110) | 2 | Rigid | 1,45 | 1,65 | 6 | 30 | 120 | 8 | 12 | 2200 | **NS09 UF** | |
| | -15 (-20) +90 (110) | 2 | Rigid | 1,45 | 1,65 | 6 | 30 | 120 | 8 | 12 | 2200 | **NS09 UFMT** | |
| | -10 (-15) +90 (110) | 2 | Rigid | 1,45 | 1,65 | 8 | 30 | 120 | 8 | 12 | 2200 | **NS09UFMT-H-BL08** | |
| | -10 (-15) +90 (110) | 2 | Extra rigid | 2,40 | 2,90 | 30 | 50 | 140 | 6 | 10 | 2200 | **NS11UFMT** | |
| | -10 (-15) +90 (110) | 2 | Rigid | 2,60 | 3,10 | 60 | 100 | 200 | 12 | 18 | 2100 | **NS20 UFMT** | |
| | -25 (-30) +90 (110) | 1 | Rigid | 1,55 | 1,25 | 10 | 10 | 60 | 5 | 7 | 2000 | **CP07AY-AM** | Premium TPU |
| | -25 (-30) +90 (110) | 1 | Rigid | 0,75 | 0,80 | 4 | 15 | 60 | 5 | 7 | 2200 | **CP07UFMT-AM** | |
| | -25 (-30) +90 (110) | 2 | Rigid | 1,20 | 1,35 | 6 | 30 | 100 | 8 | 11 | 2200 | **CP09UFMT-AM** | |
| | -25 (-30) +90 (110) | 2 | Rigid | 2,10 | 2,20 | 30 | 50 | 100 | 9 | 15 | 1250 | **CPX09UA2MT-AM** | |
| L | -25 (-30) +90 (110) | 2 | Rigid | 1,60 | 1,65 | 10 | 50 | 80 | 6 | 9 | 2200 | **CP10UFMT-AM-FL** | |
| | -25 (-30) +90 (110) | 1 | Rigid | 0,75 | 0,80 | 4 | 15 | 60 | 5 | 7 | 2200 | **NP07UFMT-AM** | |
| | -25 (-30) +90 (110) | 2 | Rigid | 1,60 | 1,65 | 6 | 30 | 100 | 8 | 12 | 2000 | **NP09DF-AM** | |
| | -25 (-30) +90 (110) | 2 | Rigid | 1,00 | 1,00 | 5 | 5 | 100 | 8 | 11 | 2200 | **NP09FF** | |
| | -25 (-30) +90 (110) | 2 | Rigid | 1,20 | 1,35 | 6 | 30 | 100 | 8 | 11 | 2200 | **NP09UFMT-AM** | |
| | -10 (-15) +90 (110) | 2 | Rigid | 1,20 | 1,35 | 6 | 30 | 100 | 8 | 11 | 2200 | **NP09UFMTMD-BL09** | |
| | -25 (-30) +90 (110) | 2 | Rigid | 2,10 | 2,20 | 30 | 50 | 100 | 9 | 15 | 1250 | **NPX09 UA2MT-AM** | |
| | -25 (-30) +90 (110) | 2 | Rigid | 3,15 | 3,20 | 100 | 100 | 200 | 12 | 18 | 1250 | **NPX20 UA2MT-AM** | |
| L | -25 (-30) +90 (110) | 2 | Rigid | 1,60 | 1,65 | 10 | 50 | 80 | 6 | 9 | 2200 | **NP10UFMT-AM-FL** | |
| L | -25 (-30) +90 (110) | 2 | Flexible | 2,30 | 2,60 | 60 | 90 | 80 | 9 | 14 | 2200 | **NP13UFMT-AM-FL** | |
| | -15 (-25) +80 (100) | 1 | Rigid | 1,00 | 1,10 | 10 | 25 | 60 | 5 | 7 | 3000 | **C07 CF** | Clina (PVC) |
| | -5 (-15) +80 (100) | 1 | Rigid | 2,90 | 2,05 | 60 | 80 | 85 | 8 | 10 | 2000 | **C07 JF** | |
| | -15 (-25) +80 (100) | 2 | Rigid | 2,10 | 2,50 | 35 | 55 | 120 | 10 | 15 | 3000 | **C12 CF** | |
| | -15 (-25) +80 (100) | 2 | Rigid | 2,30 | 2,50 | 35 | 55 | 120 | 10 | 15 | 2000 | **C12 DF** | |
| | -15 (-25) +80 (100) | 2 | Rigid | 2,00 | 2,30 | 40 | 40 | 120 | 9 | 12 | 3000 | **C13 FF** | |
| | -15 (-25) +80 (100) | 2 | Rigid | 2,55 | 2,20 | 40 | 40 | 160 | 5 | 8 | 2200 | **C16 FF** | |
| | -15 (-25) +80 (100) | 1 | Semirigid | 2,75 | 3,10 | 55 | 75 | 150 | 17 | 25 | 2-3000 | **C17 CF** | |
| | -15 (-25) +80 (100) | 2 | Rigid | 2,80 | 3,30 | 55 | 75 | 200 | 15 | 22 | 3000 | **C20 CF** | |
| | -15 (-25) +80 (100) | 2 | Extra rigid | 4,10 | 4,85 | 75 | 90 | 140 | 9 | 15 | 2000 | **C20 CK** | |
| | -15 (-25) +80 (100) | 2 | Flexible | 2,60 | 3,10 | 75 | 75 | 200 | 20 | 28 | 2000 | **C21 CK** | |
| | -15 (-25) +80 (100) | 2 | Rigid | 4,00 | 4,80 | 80 | 100 | 200 | 17 | 25 | 3000 | **C22 CF** | |
| | -15 (-25) +80 (100) | 3 | Rigid | 3,70 | 4,40 | 110 | 140 | 300 | 22 | 30 | 3000 | **C30 CF** | |
| | -15 (-25) +80 (100) | 3 | Extra rigid | 5,20 | 6,20 | 130 | 150 | 210 | 16 | 25 | 2000 | **C30 CK** | |

**Finish X1:** also available in 400, 500 and 600 mm.

**A26 X1C:** supplied in rolls of 100 m.

- Antistatic
- Antistatic top cover
- Antistatic bottom cover
- **S** Low noise fabric
- **FDA** Food quality
- **EU** Food quality Regulation EU 10/2011
- **EU*** Food quality Regulation 1935/2004
- Low friction coefficient
- ▼ Resistant to mineral oils and fats
- ▽ Resistant to vegetable oils and animal fats
- Resistant to vegetable oils and fats, and partially resistant to animal oils and fats
- Partially resistant to vegetable and animal oils and fats
- □ Abrasion resistant
- ■ Cut resistant
- ATEX certified
- Pyrolisis test
- Flame retardant
- **SW** Solid Woven
- **AM** Anti-microbial
- Anti-Hydrolysis
- **FL** Frayless
- **MD** Metal & X-Ray Detectable

# Food conveyor belts

| Belt type | | Top cover | | | | | Bottom cover | | | | | Special characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Material | Hardness ºShA | Color | Thickness mm | Finish | Material | Hardness ºShA | Color | Thickness mm | Finish | |
| Febor | F12 CF BL | PVC | 85 | Blue 06 | 0,50 | Smooth | | | Natural | | Fabric | FDA EU |
| | F12 CF WH | PVC | 85 | White | 0,50 | Smooth | | | Natural | | Fabric | FDA EU |
| | F12 CK BL | PVC | 85 | Blue 06 | 0,50 | Smooth | PVC | 90 | Blue 06 | 0,70 | Pattern K | FDA EU |
| | F14 CF BL | PVC | 85 | Blue 06 | 1,00 | Smooth | | | Natural | | Fabric | FDA EU |
| | F14 CF WH | PVC | 85 | White | 1,00 | Smooth | | | Natural | | Fabric | FDA EU |
| | F18 CF BL | PVC | 85 | Blue 06 | 1,00 | Smooth | | | Natural | | Fabric | FDA EU |
| | F21 CC | PVC | 75 | White | 2,00 | Smooth | PVC | 75 | White | 1,00 | Smooth | FDA EU |
| | F31 CC | PVC | 75 | White | 2,00 | Smooth | PVC | 75 | White | 1,00 | Smooth | FDA EU |
| | F32 CC | PVC | 75 | White | 2,75 | Smooth | PVC | 75 | White | 1,50 | Smooth | FDA EU |
| | F41 CC | PVC | 75 | White | 2,00 | Smooth | PVC | 75 | White | 1,00 | Smooth | FDA EU |
| | F61 CC | PVC | 75 | White | 2,30 | Smooth | PVC | 75 | White | 1,00 | Smooth | FDA EU |
| | F91 CC | PVC | 75 | White | 3,00 | Smooth | PVC | 75 | White | 1,00 | Smooth | FDA EU |
| Novak (PVC) | N09 CF | PVC | 70 | Blue 06 | 0,50 | Smooth | | | Natural | | WP | FDA EU |
| | N12 G2F | PVC | 65 | Blue 06 | 4,00 | Pattern G2 | | | Natural | | Fabric | FDA EU* |
| | N13 SF | Silicone | | Blue 01 | 0,10 | Impregn. | PU | | Blue 10 | 0,10 | W impregn. | FDA EU* |
| | N19 CF | PVC | 70 | Blue 06 | 0,80 | Smooth | | | Natural | | WP | FDA EU |
| | N19 CK | PVC | 70 | Blue 06 | 1,00 | Smooth | PVC | 90 | Blue 06 | 0,70 | Pattern K | FDA EU |
| | N20 CK | PVC | 70 | Blue 06 | 1,50 | Smooth | PVC | 90 | Blue 06 | 0,70 | Pattern K | FDA EU |
| | N30 CY | PVC | 70 | Blue 06 | 1,00 | Smooth | PVC | 70 | Blue 06 | 0,50 | Pattern Y | FDA EU |
| Espot | E20 CC | PVC | 73 | White | 1,00 | Smooth | PVC | 73 | White | 1,00 | Smooth | FDA EU |
| | E30 CC | PVC | 73 | White | 2,00 | Smooth | PVC | 73 | White | 1,00 | Smooth | FDA EU |
| | E40 CC | PVC | 73 | White | 2,00 | Smooth | PVC | 73 | White | 1,00 | Smooth | FDA EU |
| | E81 CC | PVC | 73 | White | 1,00 | Smooth | PVC | 73 | White | 1,00 | Smooth | FDA EU |
| | E90 CC | PVC | 73 | White | 2,00 | Smooth | PVC | 73 | White | 1,00 | Smooth | FDA EU |
| Poler | P18 EF | Polyester | 93 | Natural | 0,35 | Mat | | | Natural | | Fabric | FDA EU |
| | P18 T1F | Polyester | 93 | Natural | 2,10 | Pattern T1 | | | Natural | | Fabric | FDA EU |
| Verna | V12 PF | Polyolef. | 91 | Transp. | 0,50 | Mat | | | Natural | | Fabric | FDA EU |
| | V18 PF | Polyolef. | 91 | Transp. | 0,50 | Mat | Polyolef. | | Natural | 0,10 | Impregn. | FDA EU |
| | V18 PP | Polyolef. | 91 | Transp. | 0,50 | Smooth | Polyolef. | 91 | Transp. | 0,20 | Smooth | FDA EU |
| | V18 T1F | Polyolef. | 91 | Transp. | 2,10 | Pattern T1 | Polyolef. | | Natural | 0,10 | Impregn. | FDA EU |
| | V20 PF | Polyolef. | 91 | Transp. | 0,50 | Mat | Polyolef. | | Natural | 0,10 | Impregn. | FDA EU |
| | V30 PF | Polyolef. | 91 | Transp. | 0,50 | Mat | Polyolef. | | Natural | 0,10 | Impregn. | FDA EU |
| | V08 SF | Silicone | 40 | White | 0,30 | Smooth | PU | | Natural | 0,10 | Impregn. | FDA EU* |
| | V12 SCF[V] | Silicone | 40 | Transp. | 0,30 | Smooth | | | Natural | | Fabric | FDA EU* |
| | V12 SUF | Silicone | 40 | Transp. | 0,30 | Smooth | | | Natural | | Fabric | FDA EU* |
| | V12 SUF BL | Silicone | 40 | Blue 01 | 0,30 | Smooth | | | Natural | | Fabric | FDA EU* |

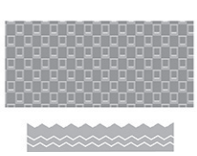
[V] = PVC between plies.

## Skirt

| Type | Material | Manufacturing width mm | Thickness mm | Hardness ºShA | Weight Kg/m2 | Special characteristics | Available colors |
|---|---|---|---|---|---|---|---|
| V15 PL | Polyolefin | 1850 | 2,10 | 91 | 1,10 | FDA, EU, Pyrolisis | Transparent |
| F07CC-GR-EU | PVC | 2000 | 1,30 | 85 | 1,60 | FDA, EU, Antistatic | Green 00 |
| NF 104 | PVC | 100 | 4,00 | 70 | 0,50* | FDA, EU, Antistatic, Oil resist. | White, Green 00, Blue 06 |
| UNSS75 | PU | 75 | 2,10 | 85 | 0,20* | FDA, EU, Oil resist. | White, Green 09, Blue 06 |
| UNRS85 | PU | 87 | 3,30 | 85 | 0,365* | FDA, EU, Oil resist. | White, Green 09, Blue 06 |
| EF603-BL06*** | Polyester | 60 | 3,00 | 40** | 2,00 | FDA, EU, Oil resist. | Blue 06 |

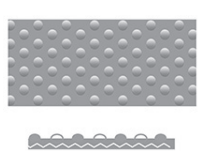
*** Special - Supplied in full roll ** ºShD * Weight in Kg/m

## More ususal Patterns



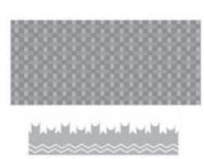
Type A

Type A2



Type C3

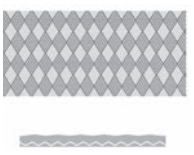
Type D

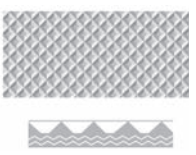


Type G2

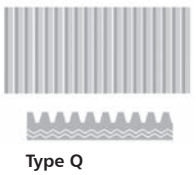
| Constant (intermittent) temperature | Fabrics | | Belt thickness | Belt weight | at 20°C A ⌀ mm | at 20°C B ⌀ mm | Breaking load | Working load at 1% elongation | Working load at 1.5% elongation | Max. roll width | Belt type | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| °C | Nº of plies | Weft | mm | kg/m² | | | N/mm | N/mm | N/mm | mm | | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,00 | 2,40 | 35 | 55 | 120 | 10 | 15 | 3000 | **F12 CF BL** | **Febor** |
| -5 (-15) +80 (100) | 2 | Rigid | 2,00 | 2,40 | 35 | 55 | 120 | 10 | 15 | 3000 | **F12 CF WH** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,80 | 3,00 | 50 | 50 | 120 | 10 | 15 | 2000 | **F12 CK BL** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,50 | 2,90 | 40 | 60 | 120 | 10 | 15 | 3000 | **F14 CF BL** | |
| -5 (-15) +80 (100) | 2 | Rigid | 2,50 | 2,90 | 40 | 60 | 120 | 10 | 15 | 3000 | **F14 CF WH** | |
| -5 (-15) +80 (100) | 3 | Rigid | 3,50 | 4,30 | 80 | 100 | 180 | 12 | 18 | 3000 | **F18 CF BL** | |
| -15 (-25) +80 (100) | 2 | Flexible | 5,00 | 6,10 | 140 | 190 | 200 | 20 | 28 | 2000 | **F21 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 6,10 | 7,60 | 200 | 250 | 300 | 30 | 40 | 2000 | **F31 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 7,40 | 9,40 | 300 | 350 | 300 | 30 | 40 | 2000 | **F32 CC** | |
| -15 (-25) +80 (100) | 4 | Flexible | 7,40 | 9,20 | 300 | 350 | 400 | 35 | 50 | 2000 | **F41 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 7,70 | 9,40 | 350 | 400 | 700 | 55 | 90 | 2000 | **F61 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 9,60 | 11,90 | 400 | 500 | 900 | 75 | 130 | 2000 | **F91 CC** | |
| -15 (-25) +80 (100) | 2 | Rigid | 2,10 | 2,50 | 35 | 55 | 120 | 10 | 15 | 3000 | **N09 CF** | **Novak (PVC)** |
| -5 (-15) +80 (100) | 2 | Rigid | 5,50 | 4,20 | 45 | 70 | 120 | 9 | 13 | 2000 | **N12 G2F** | |
| -15 (-25) +80 (110) | 2 | Rigid | 1,80 | 2,00 | 30 | 30 | 120 | 10 | 15 | 2-3000 | **N13 SF** | |
| -15 (-25) +80 (100) | 2 | Rigid | 2,80 | 3,30 | 55 | 75 | 200 | 15 | 22 | 3000 | **N19 CF** | |
| -15 (-25) +80 (100) | 2 | Flexible | 3,10 | 3,60 | 75 | 75 | 200 | 20 | 28 | 2000 | **N19 CK** | |
| -15 (-25) +80 (100) | 2 | Extra rigid | 4,10 | 4,85 | 75 | 90 | 140 | 9 | 15 | 2000 | **N20 CK** | |
| -15 (-25) +80 (100) | 3 | Extra rigid | 4,30 | 5,00 | 140 | 140 | 210 | 16 | 25 | 2000 | **N30 CY** | |
| -15 (-25) +80 (100) | 2 | Flexible | 4,30 | 5,20 | 140 | 140 | 200 | 20 | 28 | 2000 | **E20 CC** | **Espot** |
| -15 (-25) +80 (100) | 3 | Flexible | 6,20 | 7,70 | 200 | 250 | 300 | 30 | 40 | 2000 | **E30 CC** | |
| -15 (-25) +80 (100) | 4 | Flexible | 7,40 | 9,20 | 300 | 350 | 400 | 35 | 50 | 2000 | **E40 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 7,80 | 9,60 | 400 | 400 | 800 | 65 | 95 | 2000 | **E81 CC** | |
| -15 (-25) +80 (100) | 3 | Flexible | 9,00 | 11,20 | 400 | 500 | 900 | 75 | 130 | 2000 | **E90 CC** | |
| -20 (-30) + 100 (120) | 2 | Flexible | 2,40 | 2,50 | 40 | 100 | 200 | 12 | 20 | 2000 | **P18 EF** | **Poler** |
| -20 (-30) + 100 (120) | 2 | Flexible | 4,50 | 3,10 | 120 | 140 | 200 | 12 | 20 | 2000 | **P18 T1F** | |
| -15 (-25) + 45 (65) | 2 | Rigid | 2,10 | 1,95 | 50 | 70 | 110 | 10 | 15 | 2000 | **V12 PF** | **Verna** |
| -15 (-25) + 45 (65) | 2 | Flexible | 2,50 | 2,40 | 60 | 80 | 200 | 12 | 20 | 2-3000 | **V18 PF** | |
| -15 (-25) + 45 (65) | 2 | Flexible | 2,70 | 2,80 | 80 | 80 | 200 | 14 | 20 | 2000 | **V18 PP** | |
| -15 (-25) + 45 (65) | 2 | Flexible | 4,60 | 2,90 | 95 | 140 | 200 | 12 | 18 | 2000 | **V18 T1F** | |
| -15 (-25) + 45 (65) | 2 | Rigid | 2,50 | 2,40 | 60 | 80 | 200 | 13 | 22 | 2-3000 | **V20 PF** | |
| -15 (-25) + 45 (65) | 3 | Rigid | 3,60 | 3,40 | 150 | 200 | 300 | 18 | 32 | 2-3000 | **V30 PF** | |
| -25 (-35) + 150 (170) | 1 | Extra rigid | 1,00 | 1,00 | 8 | 20 | 50 | 4 | 6 | 2000 | **V08 SF** | |
| -15 (-25) + 80 (110) | 2 | Rigid | 1,75 | 2,00 | 35 | 55 | 120 | 10 | 15 | 2-3000 | **V12 SCF$^{V}$** | |
| -15 (-25) + 90 (110) | 2 | Rigid | 1,40 | 1,50 | 8 | 50 | 120 | 10 | 15 | 2-3000 | **V12 SUF** | |
| -15 (-25) + 90 (110) | 2 | Rigid | 1,40 | 1,50 | 8 | 50 | 120 | 10 | 15 | 2000 | **V12 SUF BL** | |

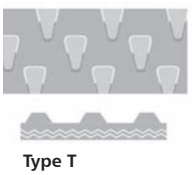

Type H

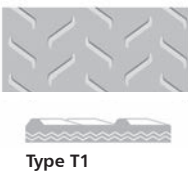

Type K1

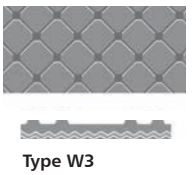

Type K


Type L

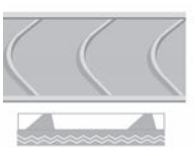

Type Q

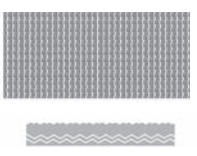

Type T


Type T1


Type W3


Type X


Type X1


Type Y1

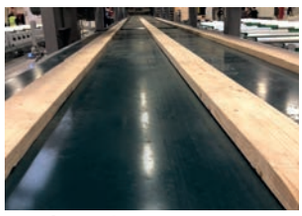

Type Z

- Antistatic
- Antistatic top cover
- Antistatic bottom cover
- **S** Low noise fabric
- **FDA** Food quality
- **EU** Food quality Regulation EU 10/2011
- **EU*** Food quality Regulation 1935/2004
- Low friction coefficient
- Resistant to mineral oils and fats
- Resistant to vegetable oils and animal fats
- Resistant to vegetable oils and fats, and partially resistant to animal oils and fats
- Partially resistant to vegetable and animal oils and fats
- Abrasion resistant
- Cut resistant
- ATEX certified
- Pyrolisis test
- Flame retardant
- **SW** Solid Woven
- **AM** Anti-microbial
- Anti-Hydrolysis
- **FL** Frayless
- **MD** Metal & X-Ray Detectable

# esbelt series

### Aster series

**Food.** White, FDA food-quality.
**Industry.** Green and black. Belts with an embossed cover for lifting or lowering packaged or bulk products.



### Breda series

**Industry.** High resistance to abrasion, chemical products and mineral oils. Excellent performance under difficult working conditions.

### Clina series

**Food.** Excelllent resistance to vegetable oils and animal fats. Non-toxic. PVC and PU.

### Drago series

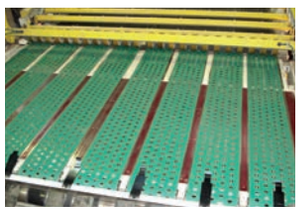
**Industry.** Resistant to cuts, abrasion and mineral oils.
For roller, troughed conveyors and bucket elevators.
Conveyance of clay, chemical fertilizers and grain materials.

### Espot series

**Food.** Excellent resistance to vegetable oils and fats. For roller troughed conveyors and bucket elevators. Conveyance of organic materials: food, seeds, compound fodders, waste.

### Febor series

**Industry.** Green – Packaged or grain products free of oils or fats. Black – Flame retardant belts, airports, logistics centres. **Food.** White and blue - FDA food-quality, flame-retardant, resist. to abrasion. Sugar, carrots and other vegetables.



### Hipro series

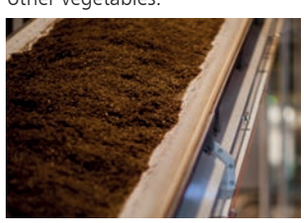
**Industry.** Excellent resistance to abrasion, better than some elastomers, highly antistatic, fusion splice. Conveyance and processing of cardboard, paper and other abrasive materials.

### Keram series

**Industry.** Highly resistant to cuts and mineral oils. Automobile industry (cutting and stamping of metal).

### Novak series

**Food.** PVC and PU blue belts. Excellent resistance to vegetable oils and animal fats.



### Poler series

**Tobacco.** Polyester belts compliant with Pyrolisis test. They work extremely well at high temperatures.

### Premium TPU series

**Food.** Bacteriostatic formulation with strong and long lasting antimicrobial & antibiofilms effects (ISO 22196). Highly resistant to hydrolisis. Fabrics with low capillarity (Wicking Test G11-FDA 2011).

### Standard TPU series

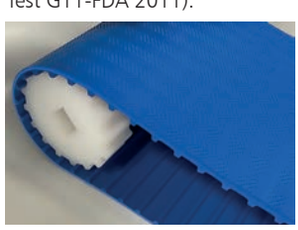
**Food.** Highly resistant to animal and vegetable oils and fats, no cracks, high level of hygiene. High resistance to cut and abrasion. Fabrics with low capillarity (Wicking Test G11-FDA 2011).

### Verna series

**Tobacco and Food.**
Polyolefin belts compliant with Pyrolisis test. Silicone belts for conveying very sticky products.

### Washflow series

**Food.** High resistance plastic mesh belts. A new concept in belts for the washing and conveyance of vegetables, fruit and frozen food, as well as for draining liquids and screening solid waste.



### Smart Drive

**Food.** Positive drive belt that adapts to the most demanding conveying needs with flexible, hygienic and safe design. It can be configured in multiple ways to guarantee the best performance in every application.

### Fabric-free elastic

**Food.** Belt with excellent elasticity and low load on axles.
Food safety, easy to clean and maintain. No delamination of layers, no fraying, no contamination from fibres.

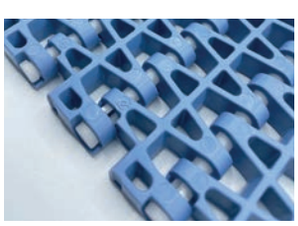
## ...and also

| TUBUL Type | Material | Weight g/m2 | Thickness* mm | Minim Ø mm |
|---|---|---|---|---|
| T35 | 100% wool | 1.700 | 3,5 | 20 |
| T6 | | 2.700 | 6 | 50 |

(*) Tolerance of +/- 10%

### Tubul Series - truly endless sleeves

100% wool felt endless belts (no splice or seam). Baking and confectionery.



### SWAPbelts - modulars

**Food & Industry.** Robust and easy to maintain. Resistant to abrasion, chemicals and extreme temperatures.
Flights, sidewalls or other accessories can be attached as required.
Made of PE, PP and POM and in different colors.

**For more technical details, please refer to the main SWAPbelts catalogue.**

# Main normatives

## Food Regulations

These are very complicated regulations and are constantly evolving. To comply with them, we must follow strictly, what is established by FDA and/or the EU Regulations EC1935/2004 and EU10/2011 as well as their subsequent extensions, this requires much specialization.
In particular, the Declaration of Compliance should include information about the global and specific migrations as well as the simulants used with respect to the normative or regulation compliance. The credibility of the manufacturer who issues the Certificates is vital, e.g. in **esbelt**, we always test our belts against the most aggressive simulant which best replicates the harshest possible condition during the use of our belts.

## Low capillarity (Wick Resistant)

Waterproof fabrics that pass Wicking Test G11-FDA 2011 (wick resistant). They prevent the penetration of water, oils and pathogenic microorganisms through capillarity, avoiding ply-separation of the belt and enhancing hygiene in food applications.

## Anti-microbial AM belts

**Reduce microbial growth by over 99%** (tested according to ISO 22196 norm). They solve or minimize the prevalent problem of the belts adding microbial load to the conveyed food product in between successive belt sanitization. The effectiveness of this anti-microbial property lasts for the entire belt life as it is based on an innovative formulation which is stable and non-hydrosoluble (unlike silver ions).

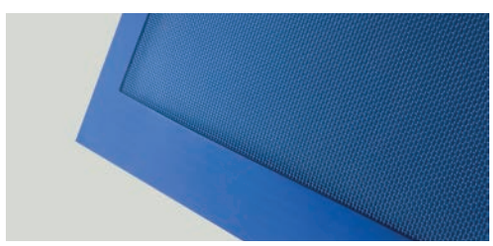
## ATEX

European regulations applied for preventive purposes to equipment components, such as conveyor belts, used in potential explosive atmospheres: conveyance of powdered grain products or storage in silos, especially if bucket elevators are used. **Esbelt** belts in the Espot, Drago and Febor sugar series are ATEX certified (Category 2 defined by Directive 2014/34/EU on non-electrical components).

# Some esbelt specialties

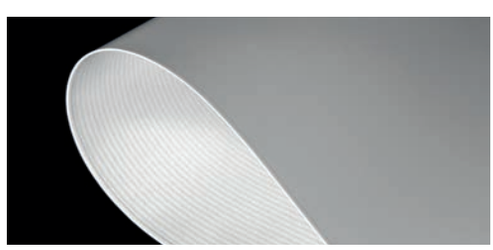
## Mesh belts

Designed mainly for washing, drying, cooling, filtering, draining and grey water treatment processes.
The PVC lateral reinforcements ensure dimensional stability, better adherence to the drum and lower elongation. Accessories such as profiles can be welded directly onto the belt depending on the application requirements.



## Sealed belt edges (molded edges)

In **esbelt**, we can seal the edges of PU belts from 1-ply 0.8mm thick with smooth, mat or embossed top and bottom cover. Sealed edges prevent oils and moistures from penetrating the fabric layer of the conveyor belts from the borders, thus avoiding microbial growth and ply separation. They also prevent fabric fiber from sticking out from the belt edges and contaminating the conveyed products.
The belt edges are protected while maintaining its flexibility to work on knife edge applications.

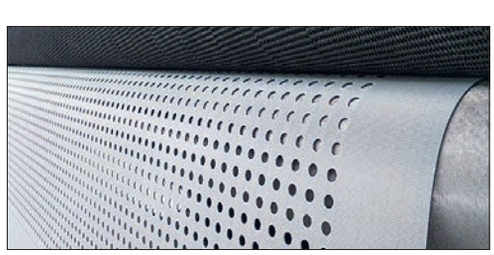


## Grape harvesting machine belts

Our many years of experience and number of metres manufactured make **esbelt** a leading company in this market.
Well tested and widely recognised, our belts offer robustness and high transversal rigidity, working fully flat and centred. They last twice the average and can be repaired allowing a belt life up to two seasons. High frequency thermowelded profiles with excellent resistance to impact and tear.

## Perforated belts

Supply of perforated belts for bucket elevator belts as well as vacuum belts, draining belts, etc. Possibility of punching holes of different diameters and arrangements.



# ...other specialties

**Esbelt** offers many other belt specialties such as: splices with **hidden fasteners; continuous waves** on the belt surface to protect and convey delicate fruit, **longitudinally cut profiles,** very popular in the fruit and vegetable sector, etc.

# Cleats (flights)

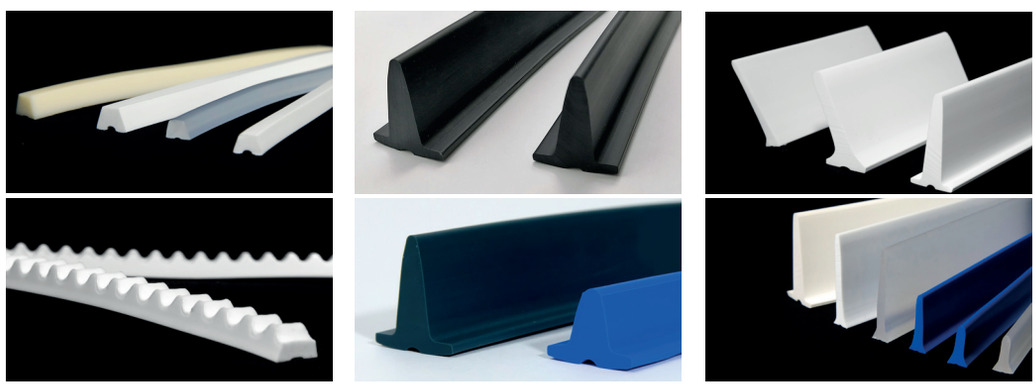
## for conveyor belting

Inclined conveyors occasionally require belts with profiles or cleats (flights) on the carrying surface. These prevent slippage of the conveyed material and increases the belt capacity.

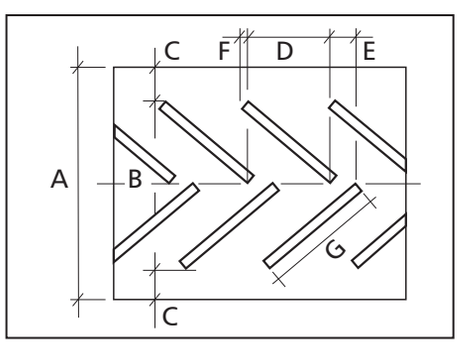
The type and height of the most suitable cleat (flight) is determined according to the characteristics of the conveyed material and the inclination of the conveyor. Optimum conveying capacity can be achieved up to angles of 70° by this means.

Notched PVC and PU trapezoidal tracking guides can be supplied; this increases belt flexibility and when fitted to the underside of the belt can reduce the minimum pulley diameter by 10%.

**esbelt** cleats (flights) are oil and fat resistant.



## Arrangement of cleats in open "V" pattern (herringbone)



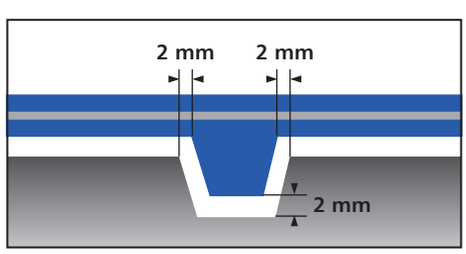

| Dimensions mm | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 400 | 500 | 600 | 650 | 800 | 1000 | 1200 |
| **B** | 300 | 400 | 450 | 480 | 600 | 800 | 900 |
| **C** | 50 | 50 | 75 | 85 | 100 | 100 | 150 |
| **D** | 180 | 205 | 210 | 225 | 286 | 348 | 390 |
| **E** | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| **F** | 18 | 18 | 24 | 30 | 50 | 60 | 60 |
| **G** | 250 | 300 | 325 | 350 | 450 | 550 | 600 |

## Recommendations for profile attachment

Profile attachment is best carried out on **2 or more ply belts.**

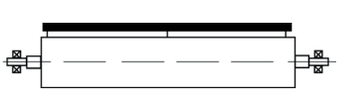
Minimum covers thickness for profile type are given below.

To obtain good results with a **tracking guide,** the grooves in the pulleys, rollers and slider beds must be larger than the tracking guide which is welded to the belt.



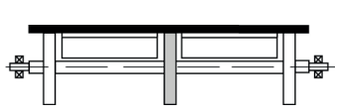

| Material and type of profile | | Minimum cover thickness |
|---|---|---|
| **PVC** | short fingers | 0,3 mm |
| | height 20 and 30 mm | 0,5 mm |
| | reinforced profiles | 0,8 mm |
| | height 40, 50, 60 mm and types NE.012 and NE.C14 | 0,8 mm |
| | height 70, 80 mm and types NE.K16, NE.015 and fingers | 1 mm |
| **PU TPE** | all types | 0,3 mm |
| **PO** | all types | 0,5 mm |

## Belt support on the return side

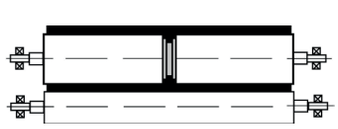


1. Belt with cleats (flights) in "V", section supported on a cylindrical roller.

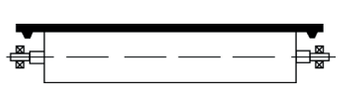
2. Supported on two lateral pulleys.



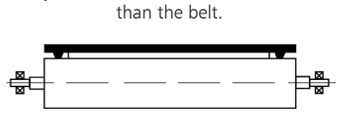
3. Supported on three pulleys.



4. Belt with internal tracking guide supported by a cylindrical roller and driven by a grooved driving pulley.

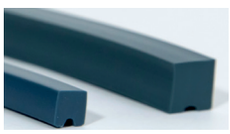


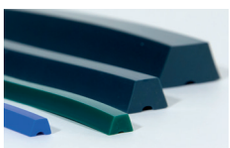
5. Belt with sidewalls supported by a cylindrical roller which is narrower than the belt.

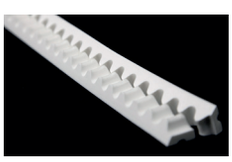


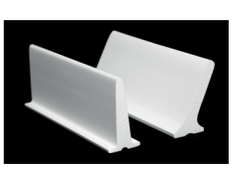
6. Belt with sidewalls and transverse cleat supported by a cylindrical roller.

# Cleats (flights)







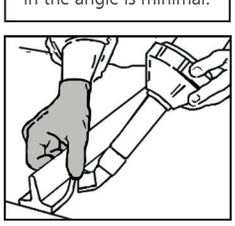


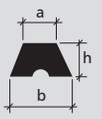
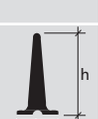
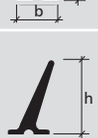
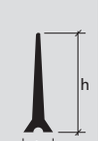
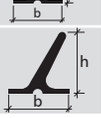
**(2)** The minimum recommended diameters given are for normal working conditions, at 20ºC. Lower temperatures require greater diameters.

**(3)** Profile positioning:
T - Transversal
G - Inner tracking guide
L - Lateral retaining wall,
V - V-shaped

Unwelded profile angle:


Once welded, the variation in the angle is minimal.



| Section | Type | Dimensions b mm | Dimensions h mm | Dimensions a mm | Material (1) | Weight g/m | Transverse minimum pitch mm | Transverse minimum ø (2) mm | Longitudinal minimum ø mm (2) bottom side | Longitudinal minimum ø mm (2) top side | Possible positioning (3) |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | NE.008-62 | 8 | 8 | | PVC | 75 | 28 | 100 | 60 | 110 | T - G - L - V |
| | NE.012-62 | 12 | 12 | | | 175 | 32 | | 80 | 120 | |
| | PE.008 | 8 | 8 | | PO | 56 | 28 | 100 | | | T - V |
| | PE.012 | 12 | 12 | | | 133 | 32 | | | | |
|  | NE.015-62 | 20 | 15 | | PVC | 330 | | | 200 | 250 | G - L |
|  | NA.X04-62 | 6 | 4 | 4,0 | PVC | 23 | | | 25 | 30 | G - L |
| | UA.X04 | 6 | 4 | 4,0 | PU | 24 | | | 25 | 30 | G - L |
| | UA.X04-MD-BL09 | 6 | 4 | 4,0 | | | | | | | |
| | NE.Y05-62 | 8 | 5 | 4,4 | PVC | 40 | 28 | 50 | 50 | 60 | T - G - L - V |
| | NE.Z06-62 | 10 | 6 | 5,6 | | 60 | 30 | 70 | 70 | 80 | |
| | NE.A08-62 | 13 | 8 | 7,2 | | 100 | 33 | 90 | 90 | 100 | |
| | NE.B11-62 | 17 | 11 | 9,0 | | 180 | 37 | 100 | 100 | 120 | |
| | NE.C14-62 | 22 | 14 | 11,8 | | 300 | 42 | 150 | 150 | 180 | |
| | NE.K16-70 | 30 | 16 | 18,4 | | 470 | 50 | 250 | 250 | 250 | |
|  | UE.Y05 | 8 | 5 | 4,4 | PU | 40 | 28 | 50 | 50 | 60 | T - G - L - V |
| | UE.Z06 | 10 | 6 | 5,6 | | 59 | 30 | 70 | 70 | 80 | |
| | UE.A08 | 13 | 8 | 7,2 | | 98 | 33 | 90 | 90 | 100 | |
| | UE.B11 | 17 | 11 | 9,0 | | 170 | 37 | 100 | 100 | 120 | |
| | UE.Y05-MD-BL09 | 8 | 5 | 4,4 | | 40 | 28 | 50 | 50 | 60 | |
| | UE.Z06-MD-BL09 | 10 | 6 | 5,6 | | 59 | 30 | 70 | 70 | 80 | |
| | UE.A08-MD-BL09 | 13 | 8 | 7,2 | | 98 | 33 | 90 | 90 | 100 | |
| | PE.Z06 | 10 | 6 | 5,6 | PO | 46 | 30 | 100 | | | T - V |
| | PE.A08 | 13 | 8 | 7,2 | | 75 | 33 | 110 | | | |
| | PE.B11 | 17 | 11 | 9,0 | | 130 | 37 | 120 | | | |
| | EE.Z06 | 10 | 6 | 5,6 | TPE | 56 | 30 | 80 | | 80 | T - G - L - V |
| | EE.A08 | 13 | 8 | 7,2 | | 95 | 33 | 90 | | 100 | |
| | EE.B11 | 17 | 11 | 9,0 | | 167 | 37 | 100 | | 120 | |
|  | DA.X04-62 | 6 | 3,5 | 4,25 | PVC | 18 | | | 15 | | G - L |
| | DE.Y05-62 | 8 | 4,5 | 4,7 | PVC | 30 | | | 35 | | G - L |
| | DE.Z06-70 | 10 | 5,5 | 6,0 | | 45 | | | 50 | | |
| | DE.A08-62 | 13 | 7,5 | 7,5 | | 75 | | | 70 | | |
| | DE.B11-62 | 17 | 10,5 | 10,3 | | 140 | | | 80 | | |
| | DE.C14-62 | 22 | 13,5 | 12,2 | | 245 | | | 125 | | |
| | DE.K16-70 | 30 | 15,5 | 18,4 | | 370 | | | 170 | | |
| | DUA.X04 | 6 | 3,5 | 4,25 | PU | 19 | | | 15 | | G - L |
| | DUE.Y05 | 8 | 4,5 | 4,7 | PU | 35 | | | 35 | | G - L |
| | DUE.Z06 | 10 | 5,5 | 6,0 | | 45 | | | 50 | | |
| | DUE.A08 | 13 | 7,5 | 7,5 | | 74 | | | 70 | | |
| | DUE.B11 | 17 | 10,5 | 9,0 | | 130 | | | 80 | | |
|  | NV.020-70 | 25 | 20 | | PVC | 285 | | 120 | | | T |
| | NV.030-70 | 25 | 30 | | | 370 | | 120 | | | |
| | NV.040-70 | 25 | 40 | | | 450 | 45 | 120 | | | |
| | NV.050-70 | 25 | 50 | | | 600 | | 120 | | | |
| | NV.060-70 | 25 | 60 | | | 700 | | 150 | | | |
|  | NL.030-70 | 25 | 30 | | PVC | 430 | 50 | 120 | | | T |
| | NL.040-70 | 25 | 40 | | | 550 | 50 | 120 | | | |
| | NL.050-70 | 25 | 50 | | | 700 | 50 | 120 | | | |
| | NL.060-70 | 25 | 60 | | | 780 | 50 | 150 | | | |
| | NL.070-70 | 40 | 70 | | | 1240 | 130 | 170 | | | |
| | NL.080-70 | 40 | 80 | | | 1400 | 130 | 180 | | | |
|  | UV.020 | 10 | 20 | | PU | 140 | | 40 | | | T |
| | UV.030 | 10 | 30 | | | 180 | | 45 | | | |
| | UV.040 | 10 | 40 | | | 230 | 30 | 50 | | | |
| | UV.050 | 10 | 50 | | | 300 | | 50 | | | |
| | UV.050-MD-BL09 | 10 | 50 | | | 300 | | 50 | | | |
| | PV.020 | 10 | 20 | | PO | 95 | 30 | 100 | | | T |
| | PV.030 | 10 | 30 | | | 135 | | | | | |
| | PV.050 | 10 | 50 | | TPE | 235 | 30 | 80 | | | T |
| | EV.020 | 10 | 20 | | | 130 | | | | | |
| | EV.030 | 10 | 30 | | | 170 | | | | | |
| | EV.050 | 10 | 50 | | | 300 | | | | | |
|  | UL.030 | 10 | 30 | | PU | 215 | 40 | 45 | | | T |
| | UL.040 | 10 | 40 | | | 255 | | 50 | | | |
| | UL.050 | 10 | 50 | | | 320 | | 50 | | | |
| | PL.030 | 10 | 30 | | PO | 155 | 40 | 100 | | | T |
| | PL.050 | 10 | 50 | | | 225 | | | | | |
| | EL.030 | 10 | 30 | | TPE | 210 | 40 | 80 | | | T |
| | EL.050 | 10 | 50 | | | 310 | | | | | |
|  | NEM.040-62 | 45 | 40 | | soft PVC | 640 | | 120 | | | T |
| | NEM.060-62 | 55 | 60 | | | 1050 | | 150 | | | |
|  | NEQ.040-62 | 42 | 40 | | soft PVC | 635 | | 120 | | | T |
| | NEQ.060-62 | 60 | 60 | | | 1150 | | 150 | | | |
| | NEQ.070-62 | 60 | 70 | | | 1400 | | 170 | | | |

# Profiles

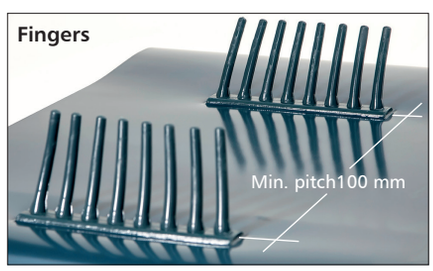
| (1) Material | | Color | Special characteristics | Hardness | Temperature ºC |
|---|---|---|---|---|---|
| **PVC** | PVC | Green 00 - White - Blue 06 | FDA, EU, antistatic, oil resistant. | 70º ShA | -10 +80 |
| **PVC** | PVC | Black | Antistatic, oil resistant. | 70º ShA | -10 +80 |
| **soft PVC** | PVC | Green 00 - White - Blue 06 | FDA, EU, antistatic, oil resistant. | 62º ShA | -15 +80 |
| **PU** | Polyurethane | Green 09 - White - Blue 06 | FDA, EU, oil resistant. | 85º ShA | -10 +100 |
| **PU-MD** | Polyurethane MD | Blue 09 | FDA, EU, oil resistant, Metal & X-Ray detectable, Anti-hydrolysis. | 85º ShA | -20 +100 |
| **PO** | Polyolefin | Transparent | FDA, EU, oil resistant. | 90º ShA | -10 +50 |
| **TPE** | Polyester | Natural | FDA, EU, oil resistant. | 40º ShD | -20 +105 |

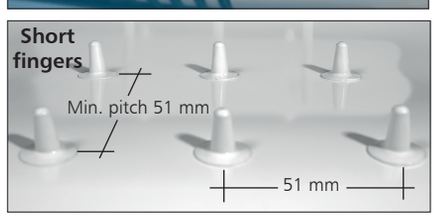
# Other profiles

## Fingers and Short Fingers

As an alternative of cleats, **esbelt** provides **"Finger"** profiles. Specially indicated for conveying fruit on inclined sections (preventing sharp knocks that might damage the appereance) and frozen food products (the cylindrical structure prevents the frozen product from sticking to the belt).

**Esbelt** offers **"Short Fingers"** used mainly in harvesters of thin-skinned (apples, nectarines, peaches, pears, etc.) and the conveyance and selection of asparagus.



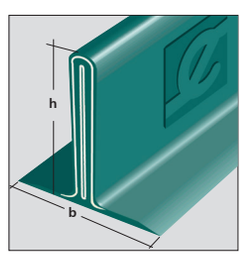



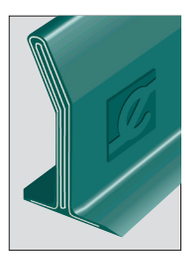

| Profile | Height mm | Hardness ºShA | Color | ø minimum mm |
|---|---|---|---|---|
| **Fingers** | 92 | 80 | White - Green - Blue 06 | 100 |
| **Short fingers** | 25 | 67 | | 60 |

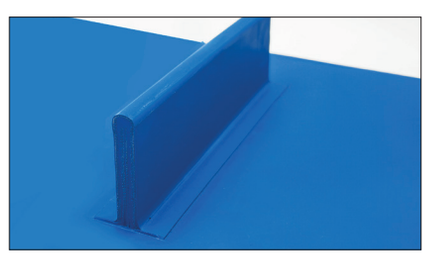
## Reinforced profile

**Esbelt** offers reinforced profiles in different heights, specially designed for applications involving difficult conditions; in general all applications in which the profiles undergo impact on receiving or conveying material. Excellent resistance to ripping and cutting. Strong and long-lasting that increase transverse rigidity of the belt, producing greater stability on the conveyor.

| Profile | Dimensions | | Transverse | | Length mm | Color | Material |
|---|---|---|---|---|---|---|---|
| | b mm | h mm | Minimum pitch mm | minimum ø (2) mm | | | |
| **NRR030** | 50 | 30 | 70 | 120 | 2000 | Blue 06, White & Green 00 | straight PVC |
| **NRR050** | | 50 | | | | | |
| **NRR070** | | 70 | | | | | |
| **NRR100** | | 100 | | | | | |
| **NIR070** | | 68 | | | | | inclined PVC |
| **NIR100** | | 97 | | | | | |
| **URR020** | 25 | 20 | 55 | 80 | 2000 | Blue 06 & Black | straight PU |
| **URR030** | | 30 | | | | | |
| **URR040** | | 40 | | | | | |
| **URR050** | | 50 | | | | | |
| **URR060** | | 60 | | | | | |
| **URR090** | | 90 | | | | | |





# Runer

## PVC "Runer" -without base-

Profile welded directly onto belt.

### FRRS Type

- With internal polyester reinforcement: Resistant to the drum pressure at the inflections and on the return side.
- Recommended for particulary long and wide conveyors or for conveyors with inflections.

| PVC | hF mm height | aF mm width* | cF mm pitch | Minimum diameter mm | Thickness mm |
|---|---|---|---|---|---|
| FRRS35 | 35 | 51 | 55 | 80 | 5 |
| FRRS40 | 40 | 51 | 55 | 100 | 5 |
| FRRS45 | 45 | 51 | 55 | 100 | 5 |
| FRRS50 | 50 | 51 | 55 | 120 | 5 |
| FRRS55 | 55 | 51 | 55 | 120 | 5 |
| FRRS60 | 60 | 51 | 55 | 140 | 5 |
| FRRS65 | 65 | 51 | 55 | 140 | 5 |
| FRRS70 | 70 | 51 | 55 | 160 | 5 |
| FRRS75 | 75 | 51 | 55 | 160 | 5 |
| FRRS80 | 80 | 51 | 55 | 180 | 5 |
| FRRS85 | 85 | 51 | 55 | 180 | 5 |
| FRRS90 | 90 | 51 | 55 | 200 | 5 |
| FRRS95 | 95 | 51 | 55 | 220 | 5 |
| FRRS100 | 100 | 51 | 55 | 220 | 5 |

*For belts wider than1700mm, aF=48

### FSSS Type

- With internal polyester reinforcement.
- Recommended for straight or lighter conveyors.

| PVC | hF mm height | aF mm width* | cF mm pitch | Minimum diameter mm | Thickness mm |
|---|---|---|---|---|---|
| FSSS35 | 35 | 33 | 30 | 80 | 3,5 |
| FSSS40 | 40 | 33 | 30 | 90 | 3,5 |
| FSSS45 | 45 | 33 | 30 | 90 | 3,5 |
| FSSS50 | 50 | 33 | 30 | 100 | 3,5 |
| FSSS55 | 55 | 33 | 30 | 100 | 3,5 |
| FSSS60 | 60 | 33 | 30 | 110 | 3,5 |
| FSSS65 | 65 | 33 | 30 | 120 | 3,5 |

*For belts wider than1700mm, aF=30

**FRRS** and **FSSS** types: White color - Hardness 70ºShA / Green color - Hardness 78ºShA

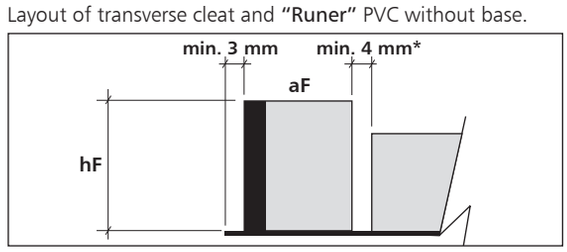
### FNSS Type

- No internal reinforcement: Developed for use in conveyors with extremely small pulley diameters.
- Recommended for small straight conveyors (no inflections).

| PVC | hF mm height | aF mm width* | cF mm pitch | Minimum diameter mm | Hardness ºShA | Thickness mm |
|---|---|---|---|---|---|---|
| FNSS35 | 35 | 33 | 30 | 40 | 70 | 4 |
| FNSS45 | 45 | 33 | 30 | 50 | 70 | 4 |

*For belts wider than1700mm, aF=30

Layout of transverse cleat and **"Runer"** PVC without base.

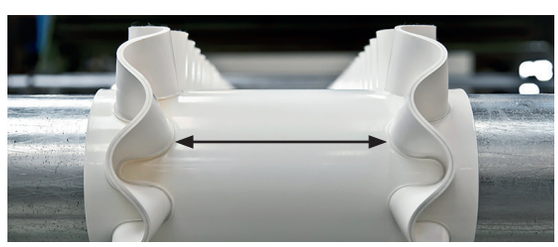



*When a cleat is type NL.070 or NL 080, the minimum distance of 4 mm will be increased to 5 mm.

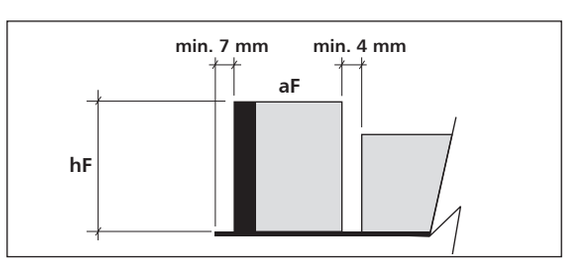

The distance between the transverse cleats should be a multiple of the - cF - pitch, if it is to coincide with the undulation of the **"Runer"**.

The maximum width for belts with **Runer** is:
- 2,400 mm with PVC Runer.
- 900 mm with PU Runer.

The minimum length for endless belts with the **Runer** profile is:
- 2,500 mm with PVC Runer.
- 3,510 mm with PU Runer.



The minimum distance between 2 Runer should be:
-100 mm with PVC Runers
- 30 mm with PU Runers




Layout of transverse cleat and **"Runer"** PU without base.
The length of the transverse cleats should be a multiple of 25 mm.

## Standard PU -without base-

Profile welded directly onto the belt, without internal reinforcement.

| PU | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Hardness ºShA | Thickness mm |
|---|---|---|---|---|---|---|
| UNSS20 | 20 | 28 | 30 | 35 | 85 | 2,1 |
| UNSS25 | 25 | 28 | 30 | 40 | 85 | 2,1 |
| UNSS30 | 30 | 28 | 30 | 45 | 85 | 2,1 |
| UNSS35 | 35 | 28 | 30 | 50 | 85 | 2,1 |
| UNSS40 | 40 | 28 | 30 | 60 | 85 | 2,1 |
| UNSS45 | 45 | 28 | 30 | 65 | 85 | 2,1 |
| UNSS50 | 50 | 28 | 30 | 75 | 85 | 2,1 |
| UNSS55 | 55 | 28 | 30 | 80 | 85 | 2,1 |
| UNSS60 | 60 | 28 | 30 | 90 | 85 | 2,1 |

## Premium PU -without base-

| PU | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Hardness ºShA | Thickness mm |
|---|---|---|---|---|---|---|
| UPNSS20 | 20 | 28 | 30 | 35 | 85 | 2,1 |
| UPNSS25 | 25 | 28 | 30 | 40 | 85 | 2,1 |
| UPNSS30 | 30 | 28 | 30 | 45 | 85 | 2,1 |
| UPNSS35 | 35 | 28 | 30 | 50 | 85 | 2,1 |
| UPNSS40 | 40 | 28 | 30 | 60 | 85 | 2,1 |
| UPNSS45 | 45 | 28 | 30 | 65 | 85 | 2,1 |
| UPNSS50 | 50 | 28 | 30 | 75 | 85 | 2,1 |
| UPNSS55 | 55 | 28 | 30 | 80 | 85 | 2,1 |
| UPNSS60 | 60 | 28 | 30 | 90 | 85 | 2,1 |

# Runer

## PVC "Runer" -without base-

Profile welded directly onto belt.

### FRRS Type

- With internal polyester reinforcement: Resistant to the drum pressure at the inflections and on the return side.
- Recommended for particulary long and wide conveyors or for conveyors with inflections.

| PVC | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Thickness mm |
|---|---|---|---|---|---|
| FRRS35 | 35 | 48 | 55 | 80 | 5 |
| FRRS40 | 40 | 48 | 55 | 100 | 5 |
| FRRS45 | 45 | 48 | 55 | 100 | 5 |
| FRRS50 | 50 | 48 | 55 | 120 | 5 |
| FRRS55 | 55 | 48 | 55 | 120 | 5 |
| FRRS60 | 60 | 48 | 55 | 140 | 5 |
| FRRS65 | 65 | 48 | 55 | 140 | 5 |
| FRRS70 | 70 | 48 | 55 | 160 | 5 |
| FRRS75 | 75 | 48 | 55 | 160 | 5 |
| FRRS80 | 80 | 48 | 55 | 180 | 5 |
| FRRS85 | 85 | 48 | 55 | 180 | 5 |
| FRRS90 | 90 | 48 | 55 | 200 | 5 |
| FRRS95 | 95 | 48 | 55 | 220 | 5 |
| FRRS100 | 100 | 48 | 55 | 220 | 5 |

### FSSS Type

- With internal polyester reinforcement.
- Recommended for straight or lighter conveyors.

| PVC | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Thickness mm |
|---|---|---|---|---|---|
| FSSS35 | 35 | 30 | 30 | 80 | 3,5 |
| FSSS40 | 40 | 30 | 30 | 90 | 3,5 |
| FSSS45 | 45 | 30 | 30 | 90 | 3,5 |
| FSSS50 | 50 | 30 | 30 | 100 | 3,5 |
| FSSS55 | 55 | 30 | 30 | 100 | 3,5 |
| FSSS60 | 60 | 30 | 30 | 110 | 3,5 |
| FSSS65 | 65 | 30 | 30 | 120 | 3,5 |

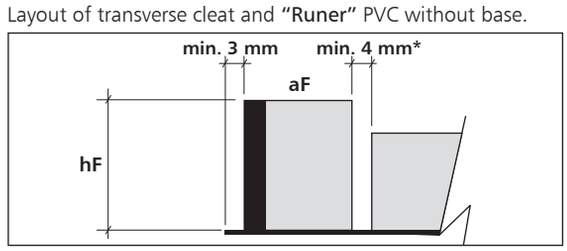
**FRRS** and **FSSS** types: White color - Hardness 70ºShA
Green color - Hardness 78ºShA

### FNSS Type

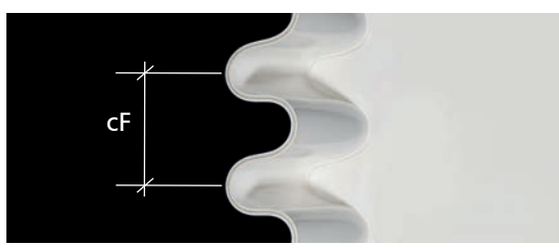
- No internal reinforcement: Developed for use in conveyors with extremely small pulley diameters.
- Recommended for small straight conveyors (no inflections).

| PVC | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Hardness ºShA | Thickness mm |
|---|---|---|---|---|---|---|
| FNSS35 | 35 | 35 | 30 | 40 | 70 | 4 |
| FNSS45 | 45 | 35 | 30 | 50 | 70 | 4 |

Layout of transverse cleat and **"Runer"** PVC without base.



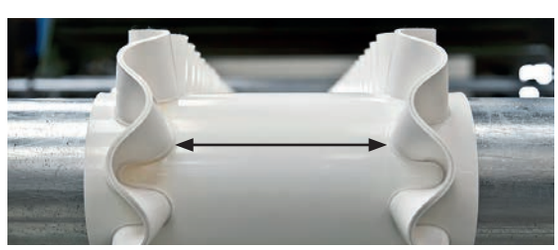

*When a cleat is type NL.070 or NL 080, the minimum distance of 4 mm will be increased to 5 mm.



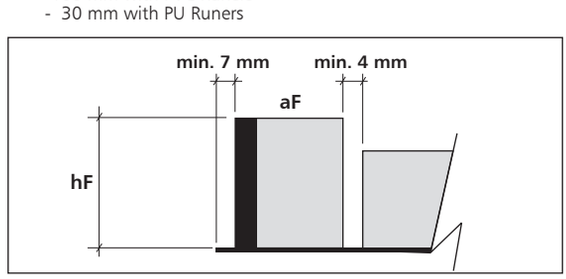

The distance between the transverse cleats should be a multiple of the - cF - pitch, if it is to coincide with the undulation of the **"Runer"**.

The maximum width for belts with **Runer** is:
- 2,400 mm with PVC Runer.
- 900 mm with PU Runer.

The minimum length for endless belts with the **Runer** profile is:
- 2,500 mm with PVC Runer.
- 3,510 mm with PU Runer.



The minimum distance between 2 Runer should be:
-100 mm with PVC Runers
- 30 mm with PU Runers




Layout of transverse cleat and **"Runer"** PU without base.
The length of the transverse cleats should be a multiple of 25 mm.

## Standard PU -without base-

Profile welded directly onto the belt, without internal reinforcement.

| PU | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Hardness ºShA | Thickness mm |
|---|---|---|---|---|---|---|
| UNSS20 | 20 | 28 | 30 | 35 | 85 | 2,1 |
| UNSS25 | 25 | 28 | 30 | 40 | 85 | 2,1 |
| UNSS30 | 30 | 28 | 30 | 45 | 85 | 2,1 |
| UNSS35 | 35 | 28 | 30 | 50 | 85 | 2,1 |
| UNSS40 | 40 | 28 | 30 | 60 | 85 | 2,1 |
| UNSS45 | 45 | 28 | 30 | 65 | 85 | 2,1 |
| UNSS50 | 50 | 28 | 30 | 75 | 85 | 2,1 |
| UNSS55 | 55 | 28 | 30 | 80 | 85 | 2,1 |
| UNSS60 | 60 | 28 | 30 | 90 | 85 | 2,1 |

## Premium PU -without base-

| PU | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Hardness ºShA | Thickness mm |
|---|---|---|---|---|---|---|
| UPNSS20 | 20 | 28 | 30 | 35 | 85 | 2,1 |
| UPNSS25 | 25 | 28 | 30 | 40 | 85 | 2,1 |
| UPNSS30 | 30 | 28 | 30 | 45 | 85 | 2,1 |
| UPNSS35 | 35 | 28 | 30 | 50 | 85 | 2,1 |
| UPNSS40 | 40 | 28 | 30 | 60 | 85 | 2,1 |
| UPNSS45 | 45 | 28 | 30 | 65 | 85 | 2,1 |
| UPNSS50 | 50 | 28 | 30 | 75 | 85 | 2,1 |
| UPNSS55 | 55 | 28 | 30 | 80 | 85 | 2,1 |
| UPNSS60 | 60 | 28 | 30 | 90 | 85 | 2,1 |

# "Runer" -with base-

## PVC "Runer" - with base

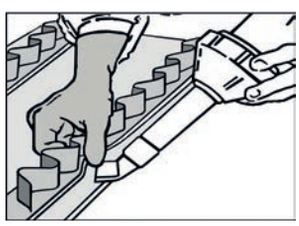
| FSRC Type | PVC | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Thickness mm |
|---|---|---|---|---|---|---|
| | FSRC35 | 35 | 55 | 55 | 80 | 3,5 |
| | FSRC55 | 55 | 55 | 55 | 120 | 3,5 |
| | FSRC85 | 85 | 55 | 55 | 180 | 3,5 |

Comments: Wave width = 45 mm / Thickness base = 3,5 mm

## PU "Runer" - with base

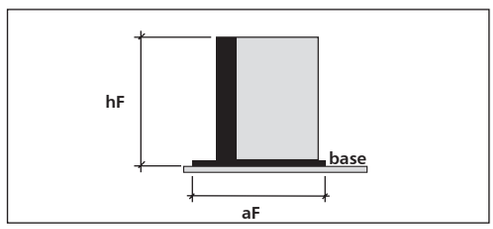
| UNSM Type | PU | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Thickness mm |
|---|---|---|---|---|---|---|
| | UNSM35 | 35 | 44 | 30 | 70 | 2,1 |
| | UNSM55 | 55 | 48 | 30 | 100 | 2,1 |

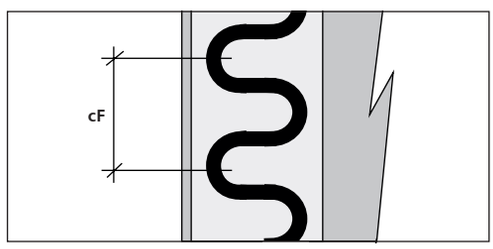
Comments: Wave width = 28 mm / Thickness base = 3,3 mm



Profile with base for welding by hand with the Leister.

Outline of **"Runer"** with base.




## Available colors

| | |
|---|---|
| **PVC Runer** | **- White/Blue:** Non-toxic, FDA-EU, suitable for using with foodstuffs.<br>**- Green:** Suitable for all uses that do not requiere food quality belts. |
| **PU Standard Runer** | **- White/Blue 06/Green 09:** Non-toxic, FDA-EU, suitable for using with foodstuffs. |
| **PU Premium Runer** | **- White:** Non-toxic, FDA-EU, suitable for using with foodstuffs. Anti-hydrolysis.<br>**- Blue 09 MD:** Non-toxic, FDA-EU, suitable for using with foodstuffs. Metal and X-Ray detectable. Anti-hydrolysis. |

## Recommendations for Runer attachment

In order to produce a good weld for the Runer, **esbelt** recommends certain minimum belt cover thicknesses, depending on the type and height of the Runer being attached.

The table gives the minimum cover thicknesses for the type of Runer

| Material and type of Runer | Maximum Runer height | Minimum cover thickness |
|---|---|---|
| **PVC (FRR, FSS and FNS)** | 55 mm | ≥0,50 mm |
| **PVC (FRR, FSS)** | from 60 mm to 75 mm | ≥0,80 mm |
| **PVC (FRR)** | from 80 mm | ≥1,50 mm |
| **PU** | all types | ≥0,30 mm |
| **With base PVC and PU (FSRC and UNSM)** | all types | ≥0,80 mm |

**General outline of nomenclature. Explanation of codes:**

| | | | |
|---|---|---|---|
| **F**SRC55WH | 1º | Type of material | **F** PVC / **U** PU |
| F**S**RC55WH | 2º | Reinforcement | **R** Fabric with high transv. rigidity / **S** with stnd. transv. rigidity / **N** Not reinforced **PN** Premium not reinforced |
| FS**R**C55WH | 3º | Pitch | **S** 30 mm / **R** 55 mm |
| FSR**C**55WH | 4º | Base | **S** Without base / **C** With thin base (PVC=3,5 mm and PU=2,3 mm) **M** With thick base (PVC=5 mm and PU=3,3 mm) |
| FSRC**55**WH | 5º/6º | Runer height (mm) | From 35 mm to 100 mm. |
| FSRC55**WH** | 7º | Color | **BL06** Blue 06 / **BL09** Blue 09 / **GR** Green / **WH** White |

# Buckets

## Neucan Buckets

**Polyethylene**
(Hardness 62° Shore D)

**Polyethylene material. White.** FDA, Regulation EU 10/2011 and EC 1935/2004. Maximum service temperature 60°C. For use with moderately abrasive powders and granular products, flours, tobacco, fruit, animal feeds, powdered phosphates and urea; foodstuffs in general, chemicals, moist and sticky materials, etc.

| | Type | A mm | B mm | C mm | D mm | E mm | ø mm holes | nº holes | capacity l | weight g |
|---|---|---|---|---|---|---|---|---|---|---|
| white | **100** | 106 | 49 | 91 | 89 | 45 | 7 | 2 | 0,22 | 55 |
| | **120** | 126 | 63 | 111 | 105 | 47 | 7 | 2 | 0,32 | 75 |
| | **140** | 145 | 80 | 111 | 120 | 60 | 7 | 2 | 0,58 | 110 |
| | **160** | 169 | 98 | 123 | 132 | 68 | 7 | 2 | 0,79 | 152 |
| | **180** | 184 | 104 | 137 | 138 | 75 | 7 | 2 | 1,10 | 201 |
| | **200** | 202 | 117 | 147 | 140 | 70 | 9 | 2 | 1,16 | 250 |
| | **230** | 237 | 75 | 157 | 152 | 82 | 10 | 3 | 1,58 | 290 |
| | **250** | 258 | 78 | 159 | 164 | 82 | 11 | 3 | 2,04 | 360 |
| | **300** | 305 | 100 | 178 | 180 | 98 | 11 | 3 | 2,98 | 485 |
| | **315** | 320 | 110 | 190 | 195 | 103 | 11 | 3 | 3,30 | 625 |

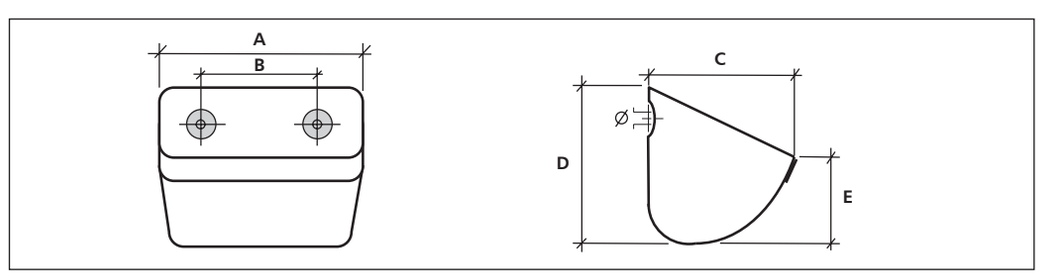
## Vercan Buckets

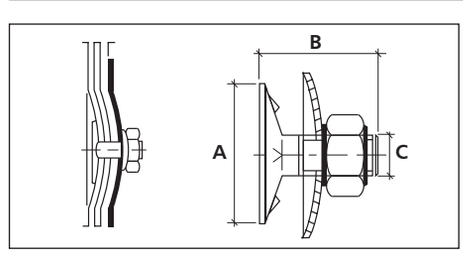
**Polyamide**
(Hardness 72° Shore D)

**Polyamide material. Antistatic.** Regulation EU 10/2011 and EC 1935/2004.
Maximum service temperature 110°C. For use with small or medium size granular abrasive materials, rice, sugar, cereals, granulated feeds, cement, clay, active chemicals, detergents, fertilizers, salt, etc.

| | Type | A mm | B mm | C mm | D mm | E mm | ø mm holes | nº holes | capacity l | weight g |
|---|---|---|---|---|---|---|---|---|---|---|
| green | **100** | 113 | 50 | 94 | 97 | 47 | 7 | 2 | 0,24 | 70 |
| | **120** | 129 | 64 | 110 | 106 | 51 | 7 | 2 | 0,41 | 95 |
| | **140** | 145 | 81 | 117 | 120 | 60 | 7 | 2 | 0,55 | 145 |
| | **160** | 170 | 98 | 128 | 132 | 69 | 7 | 2 | 0,75 | 190 |
| | **180** | 190 | 105 | 137 | 140 | 75 | 7 | 2 | 1,10 | 235 |
| | **200** | 205 | 119 | 147 | 142 | 74 | 9 | 2 | 1,24 | 317 |
| | **230** | 237 | 75 | 157 | 152 | 85 | 10 | 3 | 1,64 | 375 |
| | **250** | 262 | 79 | 161 | 165 | 87 | 11 | 3 | 2,17 | 475 |
| | **300** | 305 | 100 | 178 | 180 | 98 | 11 | 3 | 3,30 | 610 |
| | **315** | 328 | 111 | 190 | 195 | 108 | 11 | 3 | 3,45 | 785 |

| | Type | A mm | B mm | C mm | D mm | E mm | ø mm holes | nº holes | capacity l | weight g |
|---|---|---|---|---|---|---|---|---|---|---|
| white | **100** | 107 | 50 | 90 | 90 | 47 | 7 | 2 | 0,24 | 74 |
| | **120** | 129 | 64 | 106 | 106 | 58 | 7 | 2 | 0,41 | 135 |
| | **140** | 145 | 81 | 113 | 120 | 64 | 7 | 2 | 0,55 | 150 |
| | **160** | 170 | 98 | 125 | 132 | 69 | 7 | 2 | 0,83 | 190 |
| | **180** | 190 | 105 | 137 | 140 | 78 | 7 | 2 | 1,17 | 255 |
| | **200** | 205 | 119 | 147 | 142 | 74 | 9 | 2 | 1,24 | 317 |
| | **230** | 237 | 75 | 157 | 152 | 85 | 10 | 3 | 1,64 | 375 |
| | **250** | 262 | 79 | 161 | 165 | 87 | 11 | 3 | 2,17 | 475 |
| | **300** | 305 | 100 | 178 | 180 | 98 | 11 | 3 | 3,30 | 610 |




| Type | A mm | B mm | C mm |
|---|---|---|---|
| **M6 x 25** | 21 | 25 | 6 |
| **M8 x 30** | 27 | 30 | 8 |
| **M10 x 40** | 30 | 40 | 10 |

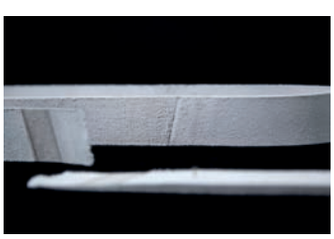
Galvanized steel bolt supplied with nut and concave washer.
The bolt is fanged for better securing to the belt.

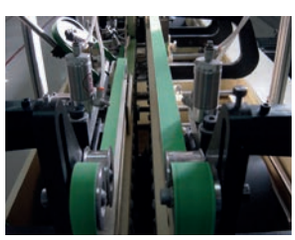
# Toptrans. Transmission and process belts.

| | Sector | Type | Drive surface | | | | Top surface | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Color | Finish | Material | Thickness mm | Color | Finish | Material | Thickness mm |
| Leather | Transmission | LF 10 | Grey 80 | Leather | Leather | 2,00 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LF 14 | Grey 80 | Leather | Leather | 2,00 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LF 20 | Grey 80 | Leather | Leather | 2,00 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LF 25 | Grey 80 | Leather | Leather | 2,00 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LF 30 | Grey 80 | Leather | Leather | 2,00 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LF 40 | Grey 80 | Leather | Leather | 2,00 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LF 54 | Grey 80 | Leather | Leather | 2,20 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LF 80 | Grey 80 | Leather | Leather | 2,20 | Black 80 | Fabric | PA fabric | 0,30 |
| | | LL 10 | Grey 80 | Leather | Leather | 2,00 | Grey 80 | Leather | Leather | 2,00 |
| | | LL 14 | Grey 80 | Leather | Leather | 2,00 | Grey 80 | Leather | Leather | 2,00 |
| | | LL 20 | Grey 80 | Leather | Leather | 2,00 | Grey 80 | Leather | Leather | 2,00 |
| | | LL 25 | Grey 80 | Leather | Leather | 2,00 | Grey 80 | Leather | Leather | 2,00 |
| | | LL 30 | Grey 80 | Leather | Leather | 2,00 | Grey 80 | Leather | Leather | 2,00 |
| | | LL 40 | Grey 80 | Leather | Leather | 2,00 | Grey 80 | Leather | Leather | 2,00 |

| | Sector | Type | Drive surface | | | | Top surface | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Color | Finish | Material | Thickness mm | Color | Finish | Material | Thickness mm |
| Elastomer and Fabric | Graphic & Process | EE 02/EL15 | Black 81 | Y2 Pattern | NBR | 0,50 | Green 84 | Mat | NBR | 0,50 |
| | | EE 04 | Green 83 | Y2 Pattern | NBR | 0,60 | Green 83 | Y2 Pattern | NBR | 0,60 |
| | | EE 06 | Green 83 | Y2 Pattern | NBR | 0,60 | Green 83 | Y2 Pattern | NBR | 0,60 |
| | | FE 06 | Black 80 | Fabric | PA fabric | 0,30 | Green 83 | Mat | NBR | 0,50 |
| | | FE 10 | Black 80 | Fabric | PA fabric | 0,30 | Green 83 | Y2 Pattern | NBR | 0,60 |
| | | FF 06 | Green 81 | Fabric | PA fabric | 0,30 | Green 81 | Fabric | PA fabric | 0,30 |
| | | FE 10/2 | Black 80 | Fabric | PA fabric | 0,30 | Green 83 | Y2 Pattern | NBR | 1,20 |
| | | FE 14/3 | Black 80 | Fabric | PA fabric | 0,30 | Green 83 | Y2 Pattern | NBR | 2,10 |
| | | FE 14/4 | Black 80 | Fabric | PA fabric | 0,30 | Green 83 | Y2 Pattern | NBR | 2,70 |
| | Flexo folders | EG 10/7 | Black 81 | Y2 Pattern | XNBR | 0,60 | Blue 81 | G Pattern | XNBR | 5,90 |
| | | EE 10/3 | Green 83 | Y2 Pattern | NBR | 1,20 | Green 83 | Y2 Pattern | NBR | 1,20 |
| | | EE 10/4 | Green 83 | Y2 Pattern | NBR | 1,70 | Green 83 | Y2 Pattern | NBR | 1,70 |
| | | EE 14/5 | Green 83 | Y2 Pattern | NBR | 2,10 | Green 83 | Y2 Pattern | NBR | 2,10 |
| | | EE 14/6 | Green 83 | Y2 Pattern | NBR | 2,70 | Green 83 | Y2 Pattern | NBR | 2,70 |
| | Transmission | EE 10 | Green 83 | Y2 Pattern | XNBR | 0,70 | Green 83 | Y2 Pattern | XNBR | 0,70 |
| | | EE 14 | Green 83 | Y2 Pattern | XNBR | 0,70 | Green 83 | Y2 Pattern | XNBR | 0,70 |
| | | EE 20 | Green 83 | Y2 Pattern | XNBR | 0,70 | Green 83 | Y2 Pattern | XNBR | 0,70 |
| | | EE 25 | Green 83 | Y2 Pattern | XNBR | 0,70 | Green 83 | Y2 Pattern | XNBR | 0,70 |
| | | EE 30 | Green 83 | Y2 Pattern | XNBR | 0,70 | Green 83 | Y2 Pattern | XNBR | 0,70 |
| | | EE 33 | Green 83 | Y2 Pattern | XNBR | 0,70 | Green 83 | Y2 Pattern | XNBR | 0,70 |
| | | EF 06 | Green 83 | Mat | NBR | 0,50 | Black 80 | Fabric | PA fabric | 0,30 |
| | | EF 10 | Green 83 | Y2 Pattern | NBR | 0,70 | Black 80 | Fabric | PA fabric | 0,30 |
| | | EF 14 | Green 83 | Y2 Pattern | NBR | 0,70 | Black 80 | Fabric | PA fabric | 0,30 |
| | | EF 20 | Green 83 | Y2 Pattern | XNBR | 0,70 | Black 80 | Fabric | PA fabric | 0,30 |
| | | EF 25 | Black 81 | Y2 Pattern | XNBR | 0,70 | Black 80 | Fabric | PA fabric | 0,30 |
| | | EF 30 | Black 81 | Y2 Pattern | XNBR | 0,70 | Black 80 | Fabric | PA fabric | 0,30 |
| | | EF 40 | Black 81 | Y2 Pattern | XNBR | 0,70 | Black 80 | Fabric | PA fabric | 0,30 |

NR: Natural rubber. NBR: Nitrile rubber. XNBR: Carboxilated nitrile rubber. PA: Polyamide

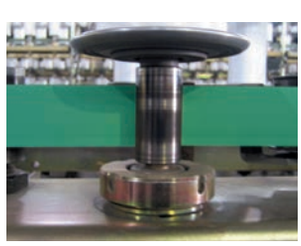



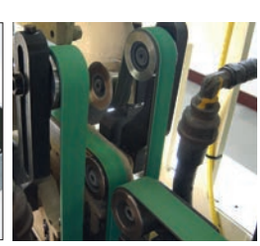
| Total weight Kg/m2 | Thickness mm | Shaft load at 1% elongation N/mm | Tensile strength N/mm | Elongation at break % | Minimum pulley ø mm | Type | Sector | |
|---|---|---|---|---|---|---|---|---|
| 2,60 | 2,80 | 10 | 225 | 22 | 40 | LF 10 | Transmission | Leather |
| 2,80 | 3,00 | 14 | 315 | 22 | 60 | LF 14 | | |
| 3,10 | 3,30 | 20 | 450 | 22 | 90 | LF 20 | | |
| 3,05 | 3,55 | 25 | 560 | 22 | 120 | LF 25 | | |
| 3,75 | 3,80 | 30 | 625 | 22 | 200 | LF 30 | | |
| 4,20 | 4,30 | 40 | 900 | 22 | 280 | LF 40 | | |
| 5,50 | 5,25 | 54 | 1215 | 22 | 380 | LF 54 | | |
| 6,90 | 7,00 | 80 | 1800 | 22 | 560 | LF 80 | | |
| 4,10 | 4,50 | 10 | 225 | 22 | 40 | LL 10 | | |
| 4,40 | 4,80 | 14 | 315 | 22 | 60 | LL 14 | | |
| 4,60 | 5,00 | 20 | 450 | 22 | 90 | LL 20 | | |
| 4,25 | 5,25 | 25 | 560 | 22 | 120 | LL 25 | | |
| 5,00 | 5,50 | 30 | 675 | 22 | 200 | LL 30 | | |
| 5,50 | 6,00 | 40 | 900 | 22 | 280 | LL 40 | | |

| Total weight Kg/m2 | Thickness mm | Shaft load at 1% elongation N/mm | Tensile strength N/mm | Elongation at break % | Minimum pulley ø mm | Type | Sector | |
|---|---|---|---|---|---|---|---|---|
| 1,50 | 1,50 | 1,90 at 8% N/mm | - | 22 | 10 | EE 02/EL15 | Graphic & Process | Elastomer and Fabric |
| 1,69 | 1,40 | 4 | 90 | 22 | 20 | EE 04 | | |
| 1,90 | 1,55 | 6 | 135 | 22 | 25 | EE 06 | | |
| 1,30 | 1,25 | 6 | 135 | 22 | 20 | FE 06 | | |
| 1,30 | 1,25 | 6 | 135 | 22 | 20 | FE 10 | | |
| 0,80 | 0,95 | 6 | 135 | 22 | 20 | FF 06 | | |
| 2,20 | 2,00 | 10 | 225 | 22 | 35 | FE 10/2 | | |
| 3,55 | 3,15 | 14 | 315 | 22 | 40 | FE 14/3 | | |
| 4,30 | 3,70 | 14 | 315 | 22 | 40 | FE 14/4 | | |
| 7,50 | 7,00 | 10 | 225 | 22 | 70 | EG 10/7 | Flexo folders | |
| 3,20 | 2,90 | 10 | 225 | 22 | 30 | EE 10/3 | | |
| 4,70 | 3,90 | 10 | 225 | 22 | 30 | EE 10/4 | | |
| 5,90 | 4,95 | 14 | 315 | 22 | 50 | EE 14/5 | | |
| 7,40 | 6,10 | 14 | 315 | 22 | 50 | EE 14/6 | | |
| 2,25 | 1,90 | 10 | 225 | 22 | 35 | EE 10 | Transmission | |
| 2,50 | 2,10 | 14 | 315 | 22 | 60 | EE 14 | | |
| 2,85 | 2,40 | 20 | 450 | 22 | 70 | EE 20 | | |
| 3,10 | 2,65 | 25 | 560 | 22 | 100 | EE 25 | | |
| 3,40 | 2,90 | 30 | 675 | 22 | 120 | EE 30 | | |
| 3,70 | 3,15 | 33 | 740 | 22 | 140 | EE 33 | | |
| 1,30 | 1,25 | 6 | 135 | 22 | 25 | EF 06 | | |
| 1,60 | 1,50 | 10 | 225 | 22 | 30 | EF 10 | | |
| 1,85 | 1,70 | 14 | 315 | 22 | 50 | EF 14 | | |
| 2,20 | 2,00 | 20 | 450 | 22 | 70 | EF 20 | | |
| 2,50 | 2,25 | 25 | 560 | 22 | 90 | EF 25 | | |
| 2,65 | 2,50 | 30 | 675 | 22 | 130 | EF 30 | | |
| 3,30 | 3,00 | 40 | 900 | 22 | 280 | EF 40 | | |

Manufacturing width: 500 mm



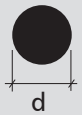




# PU Round & Vee belts

**Main characteristics:** Easy and fast splicing. Resistance to abrasion. Resistance to oils and fats. Resistance to a wide range of chemical products. High tensile strength. Vibration absorption. Low noise functioning. Easy to clean. Easy to store due to special packaging.
**Friction coefficient:** Smooth finish: 0,4 to 0,8 (depending on hardness). Rough finish: 0,3.
**Maximum recommended speed:** 15 m/s. **Recommended operating temperatures:** -20°C to +50°C (permanent) / -40°C to +80°C (momentaneous). **Assembly:** Belt connection by thermoplastic fusion. To calculate the final length of the belt, pretension will have to be considered. Pretension: Non-reinforced belts: maximum 8% (depending on hardness). Aramid and Polyester reinforced belts: <1%

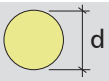
## Round belts

| Section | Hardness 88° ShA Smooth Green 14 | Diameter (d) mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|
|  d | RS88L03 | 3 | 100 | 9 | 25 |
| | RS88L04 | 4 | 100 | 15 | 40 |
| | RS88L05 | 5 | 100 | 24 | 50 |
| | RS88L06 | 6 | 100 | 34 | 60 |
| | RS88L07 | 7 | 100 | 46 | 60 |
| | RS88L08 | 8 | 100 | 60 | 80 |
| | RS88L10 | 10 | 50 | 94 | 100 |
| | RS88L12 | 12 | 50 | 135 | 120 |
| | RS88L15 | 15 | 50 | 212 | 150 |
| | *Rough* | | | | |
| | RS88R03 | 3 | 100 | 9 | 25 |
| | RS88R04 | 4 | 100 | 15 | 40 |
| | RS88R05 | 5 | 100 | 24 | 50 |
| | RS88R06 | 6 | 100 | 34 | 60 |
| | RS88R07 | 7 | 100 | 46 | 60 |
| | RS88R08 | 8 | 100 | 60 | 80 |
| | RS88R10 | 10 | 50 | 94 | 100 |
| | RS88R12 | 12 | 50 | 135 | 120 |
| | RS88R15 | 15 | 50 | 212 | 150 |
| | RS88R18 | 18 | 50 | 305 | 180 |
| | **Hardness 80°ShA Rough Blue FDA** | **Diameter (d) mm** | **Roll length m** | **Weight g/m** | **Min. pulley diameter mm** |
| | RS80R04 | 4 | 100 | 15 | 30 |
| | RS80R05 | 5 | 100 | 24 | 35 |
| | RS80R06 | 6 | 100 | 34 | 40 |
| | RS80R08 | 8 | 100 | 60 | 55 |
| | RS80R10 | 10 | 50 | 85 | 75 |
| | RS80R12 | 12 | 50 | 123 | 85 |
| | RS80R15 | 15 | 50 | 200 | 120 |

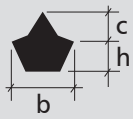
## Round belts with POLYESTER reinforcement

| Section | Hardness 92°ShA Smooth Yellow 00 | Diameter (d) mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|
|  d | RF92L08 | 8 | 100 | 60 | 85 |
| | RF92LW6 | 9.5 | 50 | 85 | 100 |
| | RF92LW8 | 12.5 | 50 | 145 | 130 |
| | RF92L15 | 15 | 50 | 212 | 155 |
| | RF92L18 | 18 | 50 | 305 | 185 |
| | **Hardness 88° ShA Rough Green 14** | **Diameter (d) mm** | **Roll length m** | **Weight g/m** | **Min. pulley diameter mm** |
| | RF88R08 | 8 | 100 | 60 | 80 |
| | RF88R10 | 10 | 50 | 94 | 100 |
| | RF88R12 | 12 | 50 | 135 | 120 |
| | RF88R15 | 15 | 50 | 212 | 150 |
| | **Hardness 80°ShA Rough Blue FDA** | **Diameter (d) mm** | **Roll length m** | **Weight g/m** | **Min. pulley diameter mm** |
| | RF80R08 | 8 | 100 | 60 | 55 |
| | RF80R10 | 10 | 50 | 85 | 75 |
| | RF80R12 | 12 | 50 | 123 | 85 |
| | RF80R15 | 15 | 50 | 200 | 120 |

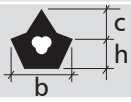
## POLYESTER Round belts

| Section | Hardness 55°ShD Smooth Natural 00 | Diameter (d) mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|
|  d | RSE55LW6 | 9,5 | 100 | 85 | 190 |
| | RSE55LW8 | 12,5 | 100 | 150 | 250 |

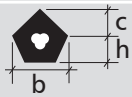
## Ridge top belts

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | c mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|---|
|   | PS88L0A | 13 | 8 | 7 | 50 | 150 | 130 |
| | PS88L0B | 17 | 11 | 9 | 50 | 255 | 180 |
| | PS88L0C | 22 | 15 | 10 | 50 | 410 | 230 |
| | **Hardness 92°ShA Yellow 00** | | | | | | |
| | PS92L0B | 17 | 11 | 9 | 50 | 255 | 265 |
| | PS92L0C | 22 | 15 | 10 | 50 | 410 | 340 |

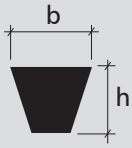
## Ridge top belts with POLYESTER reinforcement

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | c mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|---|
|   | PF88L0A | 13 | 8 | 7 | 50 | 145 | 130 |
| | PF88L0B | 17 | 11 | 9 | 50 | 245 | 180 |
| | PF88L0C | 22 | 15 | 10 | 50 | 390 | 230 |

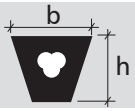
## Pentagonal belts with POLYESTER reinforcement

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | c mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|---|
|   | DF88L0B | 17 | 10 | 10 | 50 | 300 | 210 |
| | DF88L0C | 22 | 15 | 10 | 50 | 440 | 265 |

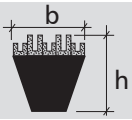
## Trapezoidal Vee belts

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|
|   | TS88L0Z | 10 | 6 | 50 | 60 | 70 |
| | TS88L0A | 13 | 8 | 50 | 98 | 90 |
| | TS88L0B | 17 | 11 | 50 | 173 | 115 |
| | TS88L0C | 22 | 14 | 50 | 286 | 160 |
| | **Hardness 92°ShA Yellow 00** | | | | | |
| | TS92L0Z | 10 | 6 | 50 | 60 | 80 |
| | TS92L0A | 13 | 8 | 50 | 98 | 100 |
| | TS92L0B | 17 | 11 | 50 | 173 | 130 |
| | TS92L0C | 22 | 14 | 50 | 286 | 180 |
| | **Hardness 80°ShA Blue FDA** | | | | | |
| | TS80L0Z | 10 | 6 | 50 | 53 | 50 |

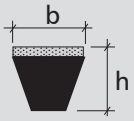
## Trapezoidal Vee belts with POLYESTER reinforcement

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|
|   | TF88L0A | 13 | 8 | 50 | 98 | 90 |
| | TF88L0B | 17 | 11 | 50 | 170 | 115 |
| | TF88L0C | 22 | 14 | 50 | 276 | 160 |

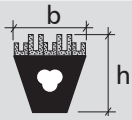
## Trapezoidal Vee belts with PVC rough top cover

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|
|   | TS88G0Z | 10 | 10 | 50 | 95 | 80 |
| | TS88G0A | 13 | 12 | 50 | 132 | 100 |
| | TS88G0B | 17 | 15 | 50 | 218 | 120 |
| | TS88G0C | 22 | 18 | 50 | 346 | 180 |

## Trapezoidal Vee belts with PVC smooth top cover

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|
|   | TS88C0Z | 10 | 9 | 50 | 113 | 80 |
| | TS88C0A | 13 | 11 | 50 | 154 | 100 |
| | TS88C0B | 17 | 14 | 50 | 248 | 120 |
| | TS88C0C | 22 | 17 | 50 | 385 | 180 |

## Trapezoidal V-belts with PVC rough top cover & POLYESTER reinforcement

| Section | Hardness 88°ShA Green 14 | Dimensions b mm | h mm | Roll length m | Weight g/m | Min. pulley diameter mm |
|---|---|---|---|---|---|---|
|   | TF88G0A | 13 | 12 | 50 | 132 | 100 |
| | TF88G0B | 17 | 15 | 50 | 215 | 120 |
| | TF88G0C | 22 | 18 | 50 | 336 | 180 |

# Machinery for Handling Conveyor Belts.

**Esbelt** offers its clients all the necessary elements for handling and installing belts, as well as the accessories required to guarantee the best possible quality of finish and to increase productivity of distributors' workshops.

Slitters designed for cutting belts lengthwise. Both the **portable and automatic slitters** are easy to handle and have a maximum working width of 2,250mm.

**Ply separator** for precise separation of the ends of 2 and 3-ply PVC, TPU and PO belts.

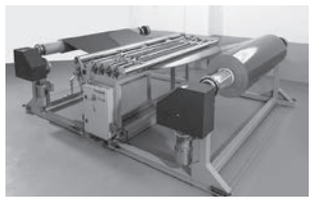
**Manual cutting machine**, with mechanical advance system without the need to connect to any electrical source. Designed to cut conveyor belt ends in the form of fingers, in preparation for vulcanizing joint. Working width of 1,190 mm with open lateral sides to work on unlimited belt widths.

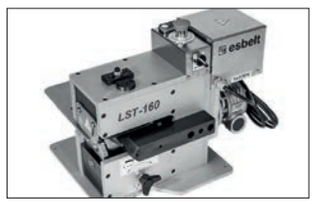
**Welder for longitudinal profiles**
A pneumatically operated machine for hot-air welding on belts with a maximum width of 1,200 mm.

**Air-cooled presses** with integrated controls for vulcanising belts, offering a magnificent finish to the splices.

Tool-kit for splicing round and vee belts and different handling tools for improving workshop tasks.

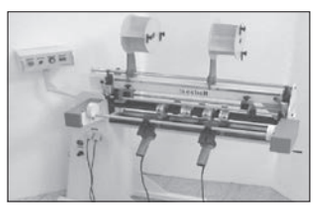

LCU 225


LCM 225EEN



LST 160

LTMR 121


LSM 1200


LPBE 600ACI


LPBE 1200ACI

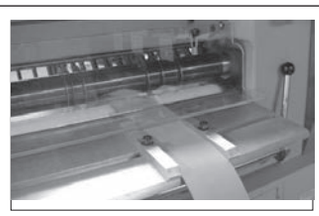
LP 9000

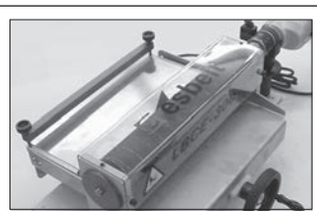
# Machinery for Handling Flat Belts.

500-mm circular **slitter**, which cut up to a thickness of 7 mm.

**Skiving machine** developed for bevelling the ends of belts to be spliced.

Portable **presse** for splicing belts - maximum width - 300 mm.


LCCB 500



LBCE 300

LPCE 300

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