

# Conveyor and Process Belts



Profiles  
Round & Vee belts  
Flat belts  
Buckets

esbelt.com



# Industrial & General Purpose Belts

| Belt type |                          | Top cover |               |          |              |            | Bottom cover |               |          |              |           | Special characteristics |
|-----------|--------------------------|-----------|---------------|----------|--------------|------------|--------------|---------------|----------|--------------|-----------|-------------------------|
|           |                          | Material  | Hardness °ShA | Colour   | Thickness mm | Finish     | Material     | Hardness °ShA | Colour   | Thickness mm | Finish    |                         |
| Aster     | A12 G2F                  | PVC       | 55            | Green 00 | 4,00         | Pattern G2 |              |               | Natural  |              | Fabric    | ☉                       |
|           | A12 G2K                  | PVC       | 65            | Green 00 | 3,70         | Pattern G2 | PVC          | 90            | Green 00 | 0,70         | Pattern K | ☉                       |
|           | 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 W1F                  | PVC       | 65            | Black 02 | 6,00         | Pattern W1 | 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                     |
|           | A22 AF-SKI               | PVC       | 75            | Green 00 | 1,40         | Pattern A  | hard PVC     |               | Green 00 | 0,10         | Impregn.  | ☉ ▼ □                   |
|           | 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     | B12 UF <sup>V</sup>      | PU        | 93            | Green 09 | 0,30         | Smooth     |              |               | Natural  |              | WP        | ☉ FDA EU ● ▼ ▽ □        |
|           | B20 UF <sup>V</sup>      | PU        | 93            | Green 09 | 0,50         | Smooth     |              |               | Natural  |              | Fabric    | FDA EU ● ▼ ▽ □          |
|           | B21 UF MTBK <sup>V</sup> | PU        | 93            | Black 01 | 1,50         | Mat        | PU           |               | Natural  | 0,10         | Impregn.  | ☉ ● ▼ ▽ □ ■             |
|           | B22 UF TR <sup>V</sup>   | PU        | 93            | Transp.  | 2,00         | Smooth     | Hard PVC     |               | White    | 0,10         | Impregn.  | ☉ FDA EU* ● ▼ ▽ □ ■     |
|           | 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 AF                   | PVC       | 82            | Black 01 | 0,80         | Pattern A  | LFR          |               | Grey 00  | 0,10         | Impregn.  | ☉                       |
|           | F21 NF                   | PVC       | 82            | Black 01 | 0,60         | Mat        | LFR          |               | Grey 00  | 0,10         | Impregn.  | ☉                       |
|           | F22 FF                   | LFR       |               | Black 00 | 0,10         | Impregn.   | LFR          |               | Grey 00  | 0,10         | Impregn.  | ☉ S ●                   |
|           | 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                |
|           | 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 | CR           |               | Black 00 | 0,10         | Impregn.  | ☉ S ▼ □                 |
|           | H13 GR                   | HPVC      | 75            | Green 23 | 5,50         | Pattern G  | CR           |               | Black 00 | 0,10         | Impregn.  | ☉ ▼ □                   |
|           | H18 Y1R                  | HPVC      | 75            | Green 23 | 0,80         | Pattern Y1 | CR           |               | 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"    <sup>V</sup> = PVC between plies

| Constant<br>(intermittent)<br>temperature<br>°C | Fabrics        |          | Belt<br>thickness<br>mm | Belt<br>weight<br>kg/m² | at 20°C   |           | Breaking<br>load<br>N/mm | Working<br>load at<br>1%<br>elongation<br>N/mm | Working<br>load at<br>1.5%<br>elongation<br>N/mm | Max.<br>roll<br>width<br>mm | Belt type                |       |
|---|----------------|----------|-------------------------|-------------------------|-----------|-----------|--------------------------|--|--|-----------------------------|--------------------------|-------|
|   | N° of<br>plies | Weft     |                         |                         | A<br>Ø mm | B<br>Ø 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                    | 5,25                    | 70        | 90        | 120                      | 10   | 15   | 2000                        | A12 G2K                  |       |
| -5 (-15) +80 (100)                              | 2              | Rigid    | 3,20                    | 3,50                    | 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                    | 3,50                    | 50        | 60        | 160                      | 15   | 22   | 2-3000                      | A15 QF                   |       |
| -10 (-15) +80 (100)                             | 2              | Rigid    | 8,75                    | 4,80                    | 80        | 100       | 150                      | 10   | 16   | 1250                        | A15 W1F                  |       |
| -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                    | 4,60                    | 55        | 90        | 160                      | 16   | 22   | 2000                        | A20 G2F                  |       |
| -15 (-25) +80 (100)                             | 3              | Rigid    | 4,40                    | 5,00                    | 100       | 120       | 275                      | 22   | 30   | 3000                        | A22 AF-SKI               |       |
| -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) +80 (105)                             | 2              | Rigid    | 1,60                    | 1,90                    | 40        | 60        | 120                      | 10   | 16   | 2-3000                      | B12 UF <sup>V</sup>      | Breda |
| -10 (-15) +80 (105)                             | 2              | Rigid    | 2,20                    | 2,60                    | 60        | 80        | 200                      | 18   | 25   | 2-3000                      | B20 UF <sup>V</sup>      |       |
| -5 (-15) +80 (105)                              | 2              | Rigid    | 4,00                    | 4,30                    | 100       | 200       | 180                      | 12   | 18   | 3000                        | B21 UF MTBK <sup>V</sup> |       |
| -5 (-15) +80 (105)                              | 2              | Rigid    | 4,50                    | 5,10                    | 100       | 200       | 140                      | 8  | 13   | 3000                        | B22 UF TR <sup>V</sup>   |       |
| -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              | 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                    | 2,60                    | 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 | 2,55                    | 2,90                    | 40        | 60        | 200                      | 20   | 30   | 3000                        | F21 AF                   |       |
| -10 (-15) +80 (100)                             | 2              | Flexible | 2,50                    | 3,00                    | 40        | 60        | 200                      | 6  | 9  | 3000                        | F21 NF                   |       |
| -10 (-15) +80 (100)                             | 2              | Rigid    | 2,40                    | 2,85                    | 60        | 60        | 180                      | 14   | 19   | 3000                        | F22 FF                   |       |
| -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)                              | 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                    | 6,20                    | 60        | 90        | 200                      | 14   | 20   | 2000                        | H13 GR                   |       |
| -5 (-15) +80 (100)                              | 3              | Rigid    | 3,20                    | 3,50                    | 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                    | 80        | 100       | 400                      | 22   | 32   | 3000                        | K40 RF                   |       |
| -10 (-15) +80 (105)                             | 2              | Rigid    | 4,00                    | 4,20                    | 140       | 330       | 400                      | 22   | 32   | 2000                        | K40 UF                   |       |



A15W1F: pitch 108 mm

- ⦿ 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
- ⦿ Pyrolysis test
- ⦿ Flame retardant
- SW Solid Woven
- AM Anti-microbial
- RM Microbe-resistant
- ⦿ Anti-Hydrolysis

# Food conveyor belts


| Belt type   |                       | Top cover |               |          |              |              | Bottom cover |               |          |              |              | Special characteristics |     |            |
|-------------|-----------------------|-----------|---------------|----------|--------------|--------------|--------------|---------------|----------|--------------|--------------|-------------------------|-----|------------|
|             |                       | Material  | Hardness °ShA | Colour   | Thickness mm | Finish       | Material     | Hardness °ShA | Colour   | 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    | 2,00         | Pattern Z    | PVC          | 90            | White    | 0,70         | Pattern K    | FDA                     | EU  | ▽          |
|             | A26 XC                | PVC       | 73            | White    | 15,50        | X Profile    | PVC          | 73            | White    | 1,00         | Smooth       | FDA                     | EU  | ▽          |
|             | A26 X1C               | PVC       | 73            | White    | 15,50        | X1 Profile   | PVC          | 73            | White    | 1,00         | Smooth       | FDA                     | EU  | ▽          |
|             | A36 X1C               | PVC       | 73            | White    | 15,80        | X1 Profile   | PVC          | 73            | White    | 0,70         | Smooth       | ☞ FDA                   | EU  | ▽          |
| Clina (PU)  | C06 UF                | PU        | 86            | Ocher 01 | 0,30         | Smooth       |              |               | Natural  |              | WP           | FDA                     | EU  | ▽ □        |
|             | C07 UF                | PU        | 86            | White    | 0,30         | Smooth       |              |               | Natural  |              | WP           | FDA                     | EU  | ▽ □        |
|             | C07 UFMT              | PU        | 86            | White    | 0,30         | Mat          |              |               | Natural  |              | WP           | FDA                     | EU  | ● ▽ □      |
|             | C07 UU                | PU        |               | Green 16 | 0,10         | Impregn.WP   | PU           |               | Green 16 | 0,10         | Impregn. WP  | FDA                     | EU* | ● ▽        |
|             | C08 DF                | PU        | 86            | White    | 0,50         | Pattern D    | PU           |               | Natural  | 0,10         | Impregn.     | ☉ FDA                   | EU  | ▽ □        |
|             | C08 UF                | PU        | 86            | White    | 0,30         | Smooth       |              |               | Natural  |              | WP           | ☉ FDA                   | EU  | ▽ □        |
|             | C08 UFMT              | PU        | 86            | White    | 0,30         | Mat          | PU           |               | Natural  | 0,10         | Impregn.     | ☉ FDA                   | EU  | ● ▽ □      |
|             | C09 UF                | PU        | 86            | White    | 0,25         | Smooth       | PU           |               | Natural  | 0,10         | Impregn.     | ☉ FDA                   | EU  | ▽ □        |
|             | C09 UFMT              | PU        | 86            | White    | 0,25         | Mat          | PU           |               | Natural  | 0,10         | Impregn.     | ☉ FDA                   | EU  | ● ▽ □      |
|             | C10 FF                |           |               | Natural  |              | Cotton-Poly. |              |               | Natural  |              | Cotton-Poly. | FDA                     | EU  | ● ▽        |
|             | C10 UF                | PU        | 86            | White    | 0,30         | Smooth       |              |               | Natural  |              | WP           | FDA                     | EU  | ▽ □        |
|             | C12 UF <sup>V</sup>   | PU        | 86            | White    | 0,30         | Smooth       |              |               | Natural  |              | WP           | FDA                     | EU  | ▽ □        |
|             | C12 UFMT <sup>V</sup> | PU        | 93            | White    | 0,30         | Mat          |              |               | Natural  |              | WP           | FDA                     | EU  | ● ▽ □      |
| Clina (PVC) | C20 UF                | PU        | 93            | White    | 1,00         | Smooth       | PU           |               | Natural  | 0,10         | Impregn.     | FDA                     | EU  | ● ▽ □ ■    |
|             | C07 CF                | PVC       | 70            | White    | 0,50         | Smooth       |              |               | Natural  |              | WP           | FDA                     | EU  | ▽          |
|             | C07 JF                | Felt      |               | White    |              | Felt         |              |               | Natural  |              | Fabric       |                         |     |            |
|             | C11 FF                |           |               | Natural  |              | WP           |              |               | Natural  |              | WP           | ☉ FDA                   | EU  | ● ▽        |
|             | 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       | 78            | 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 CF                | PVC       | 70            | White    | 0,80         | Smooth       | PU           |               | Natural  | 0,10         | Impregn.     | 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  | ▽          |
| Febor       | C30 CK                | PVC       | 70            | White    | 1,50         | Smooth       | PVC          | 90            | White    | 0,70         | Pattern K    | FDA                     | EU  | ▽          |
|             | 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  |            |
|             | 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  |            |
|             | F19 CK                | PVC       | 84            | Blue 05  | 1,00         | Smooth       | PVC          | 90            | Blue 05  | 0,70         | Pattern K    | FDA                     | EU  |            |
|             | F21 CC EU*            | PVC       | 75            | White    | 2,00         | Smooth       | PVC          | 75            | White    | 1,00         | Smooth       | ☉ FDA                   | EU  | □ ☼ ☞      |
|             | F31 CC EU*            | PVC       | 75            | White    | 2,00         | Smooth       | PVC          | 75            | White    | 1,00         | Smooth       | ☉ FDA                   | EU  | □ ☼ ☞      |
|             | F32 CC EU*            | PVC       | 75            | White    | 2,75         | Smooth       | PVC          | 75            | White    | 1,50         | Smooth       | ☉ FDA                   | EU  | □ ☼ ☞      |
|             | F41 CC EU*            | PVC       | 75            | White    | 2,00         | Smooth       | PVC          | 75            | White    | 1,00         | Smooth       | ☉ FDA                   | EU  | □ ☼ ☞      |
| Novak       | F91 CC EU*            | PVC       | 75            | White    | 3,00         | Smooth       | PVC          | 75            | White    | 1,00         | Smooth       | ☉ FDA                   | EU  | □ ☼ ☞      |
|             | N07 AY AM             | PU        | 86            | Blue 06  | 0,60         | Pattern A    | PU           | 86            | Blue 06  | 0,45         | Pattern Y    | FDA                     | EU  | ▽ □ AM ☹   |
|             | N07 UFMT              | PU        | 86            | Blue 06  | 0,30         | Mat          | PU           |               | Natural  | 0,10         | Impregn.     | FDA                     | EU  | ● ▽ □      |
|             | N09 DF AM             | PU        | 85            | Blue 06  | 0,45         | Pattern D    | PU           |               | Natural  | 0,10         | Impregn.     | ☉ FDA                   | EU  | ▽ □ AM ☹   |
|             | N09 UF                | PU        | 85            | Blue 06  | 0,25         | Smooth       | PU           |               | Blue 06  | 0,10         | Impregn.     | ☉ FDA                   | EU  | ▽ □ RM ☹   |
|             | N09 UFMS              | PU        | 85            | Blue 06  | 0,25         | Mat          | PU           |               | Blue 06  | 0,10         | Impregn.     | ☉ FDA                   | EU  | ● ▽ □ RM ☹ |
|             | 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* |            |
|             | 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* | ▽          |

• =Belts also available in **FDA quality only**.

<sup>V</sup> = PVC between plies

WP = Low-capillary fabric “Water Proof”



| Constant<br>(intermittent)<br>temperature<br>°C | Fabrics        |          | Belt<br>thickness<br>mm | Belt<br>weight<br>kg/m <sup>2</sup> | at 20°C<br> |           | Breaking<br>load<br>N/mm | Working<br>load at<br>1%<br>elongation<br>N/mm | Working<br>load at<br>1.5%<br>elongation<br>N/mm | Max.<br>roll<br>width<br>mm | Belt type             |             |
|---|----------------|----------|-------------------------|-------------------------------------|--|-----------|--------------------------|--|--|-----------------------------|-----------------------|-------------|
|   | N° of<br>plies | Weft     |                         |                                     | A<br>Ø mm  | B<br>Ø 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 | 4,50                    | 4,70                                | 80   | 100       | 200                      | 20   | 28   | 2000                        | A21 ZK                |             |
| -15 (-25) +80 (100)                             | 2              | Flexible | 18,60                   | 7,60                                | 150  | 200       | 200                      | 18   | 28   | 600                         | A26 XC                |             |
| -15 (-25) +80 (100)                             | 2              | Flexible | 18,60                   | 8,00                                | 190  | 210       | 200                      | 18   | 28   | 800                         | A26 X1C               |             |
| -15 (-25) +80 (100)                             | 3              | Flexible | 19,70                   | 9,30                                | 230  | 280       | 300                      | 28   | 40   | 800                         | A36 X1C               |             |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 0,80                    | 0,90                                | 8  | 30        | 60                       | 6  | 8  | 2-3000                      | C06 UF                | Clina (PU)  |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 0,80                    | 0,90                                | 8  | 30        | 60                       | 6  | 8  | 2-3000                      | C07 UF                |             |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 0,80                    | 0,90                                | 8  | 30        | 60                       | 6  | 8  | 2000                        | C07 UFMT              |             |
| -15 (-25) +90 (110)                             | 1              | Rigid    | 0,45                    | 0,30                                | 8  | 8         | 60                       | 5  | 7  | 3000                        | C07 UU                |             |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 1,20                    | 1,10                                | 10   | 30        | 50                       | 5  | 7  | 2000                        | C08 DF                |             |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 1,00                    | 1,10                                | 10   | 30        | 50                       | 5  | 7  | 2000                        | C08 UF                |             |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 1,00                    | 1,10                                | 10   | 30        | 50                       | 5  | 7  | 2000                        | C08 UFMT              |             |
| -10 (-15) +90 (110)                             | 2              | Rigid    | 1,20                    | 1,35                                | 10   | 30        | 100                      | 8  | 12   | 2000                        | C09 UF                |             |
| -10 (-15) +90 (110)                             | 2              | Rigid    | 1,20                    | 1,35                                | 10   | 30        | 100                      | 8  | 12   | 2000                        | C09 UFMT              |             |
| -15 (-25) +90 (110)                             | 2              | Flexible | 1,40                    | 1,25                                | 10   | 10        | 110                      | 7  | 10   | 2200-3000                   | C10 FF                |             |
| -10 (-15) +90 (110)                             | 2              | Rigid    | 1,45                    | 1,60                                | 20   | 50        | 120                      | 10   | 18   | 2000                        | C10 UF                |             |
| -10 (-15) +80 (105)                             | 2              | Rigid    | 1,60                    | 1,90                                | 20   | 50        | 120                      | 10   | 16   | 2-3000                      | C12 UF <sup>V</sup>   |             |
| -10 (-15) +80 (105)                             | 2              | Rigid    | 1,50                    | 1,70                                | 20   | 50        | 120                      | 10   | 16   | 2-3000                      | C12 UFMT <sup>V</sup> | Clina (PVC) |
| -10 (-15) +90 (110)                             | 2              | Rigid    | 2,80                    | 3,20                                | 80   | 100       | 200                      | 18   | 25   | 2000                        | C20 UF                |             |
| -15 (-25) +80 (100)                             | 1              | Rigid    | 1,00                    | 1,10                                | 10   | 25        | 60                       | 5  | 7  | 3000                        | C07 CF                |             |
| -5 (-15) +80 (100)                              | 1              | Rigid    | 2,90                    | 2,05                                | 60   | 80        | 85                       | 8  | 10   | 2000                        | C07 JF                |             |
| -15 (-25) +80 (100)                             | 2              | Rigid    | 1,30                    | 1,40                                | 30   | 30        | 120                      | 9  | 12   | 3000                        | C11 FF                |             |
| -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              | Rigid    | 2,75                    | 3,10                                | 100  | 150       | 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              | Rigid    | 4,10                    | 4,85                                | 75   | 90        | 140                      | 9  | 15   | 2000                        | C20 CK                |             |
| -15 (-25) +80 (100)                             | 2              | Flexible | 2,40                    | 2,90                                | 55   | 75        | 200                      | 20   | 30   | 2000                        | C21 CF                |             |
| -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                        | C30CF                 |             |
| -15 (-25) +80 (100)                             | 3              | Rigid    | 5,20                    | 6,20                                | 130  | 150       | 210                      | 16   | 25   | 2000                        | C30 CK                |             |
| -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    | 2,50                    | 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             |             |
| -15 (-25) +80 (100)                             | 2              | Flexible | 3,10                    | 3,60                                | 75   | 75        | 200                      | 20   | 28   | 2000                        | F19 CK                |             |
| -15 (-25) +80 (100)                             | 2              | Flexible | 5,00                    | 6,10                                | 140  | 190       | 200                      | 20   | 28   | 2000                        | F21 CC EU*            |             |
| -15 (-25) +80 (100)                             | 3              | Flexible | 6,10                    | 7,60                                | 200  | 250       | 300                      | 30   | 40   | 2000                        | F31 CC EU*            |             |
| -15 (-25) +80 (100)                             | 3              | Flexible | 7,40                    | 9,40                                | 300  | 350       | 300                      | 30   | 40   | 2000                        | F32 CC EU*            |             |
| -15 (-25) +80 (100)                             | 4              | Flexible | 7,40                    | 9,20                                | 300  | 350       | 400                      | 35   | 50   | 2000                        | F41 CC EU*            |             |
| -15 (-25) +80 (100)                             | 3              | Flexible | 9,60                    | 11,90                               | 400  | 500       | 900                      | 75   | 130  | 2000                        | F91 CC EU*            | Novak       |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 1,55                    | 1,65                                | 10   | 10        | 60                       | 5  | 7  | 2000                        | N07 AY AM             |             |
| -10 (-15) +90 (110)                             | 1              | Rigid    | 0,80                    | 0,90                                | 8  | 30        | 50                       | 6  | 8  | 2000                        | N07 UFMT              |             |
| -20 (-25) +90 (110)                             | 2              | Rigid    | 1,45                    | 1,35                                | 15   | 40        | 100                      | 9  | 15   | 2000                        | N09 DF AM             |             |
| -20 (-25) +90 (110)                             | 2              | Rigid    | 1,20                    | 1,35                                | 10   | 30        | 100                      | 8  | 12   | 2000                        | N09 UF                |             |
| -20 (-25) +90 (110)                             | 2              | Rigid    | 1,20                    | 1,35                                | 10   | 30        | 100                      | 8  | 12   | 2000                        | N09 UFMS              |             |
| -15 (-25) +80 (100)                             | 2              | Rigid    | 2,10                    | 2,50                                | 35   | 55        | 120                      | 10   | 15   | 3000                        | N09 CF                |             |
| -5 (-15) +80 (100)                              | 2              | Rigid    | 5,50                    | 4,20                                | 45   | 70        | 120                      | 9  | 13   | 2000                        | N12 G2F               |             |
| -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              | Rigid    | 4,10                    | 4,85                                | 75   | 90        | 140                      | 9  | 15   | 2000                        | N20 CK                |             |
| -15 (-25) +80 (100)                             | 3              | Rigid    | 4,30                    | 5,00                                | 140  | 140       | 210                      | 16   | 25   | 2000                        | N30 CY                |             |



**A26 X1C and A36 X1C:**  
also available in 400, 500,  
600 and 1.000 mm.

- ☯ 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
- ⚙ Pyrolysis test
- ⚙ Flame retardant
- SW Solid Woven
- AM Anti-Microbial
- RM Microbe-resistant
- 💧 Anti-Hydrolysis

# Food conveyor belts

| Belt type |                      | Top cover |               |         |              |            | Bottom cover |               |         |              |          | Special characteristics |   |   |   |
|-----------|----------------------|-----------|---------------|---------|--------------|------------|--------------|---------------|---------|--------------|----------|-------------------------|---|---|---|
|           |                      | Material  | Hardness °ShA | Colour  | Thickness mm | Finish     | Material     | Hardness °ShA | Colour  | Thickness mm | Finish   |                         |   |   |   |
| 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     | P08 AFWP             | Polyester | 93            | Natural | 0,60         | Pattern A  |              |               | Natural |              | WP       | ☉ FDA EU                | ▼ | ☑ | ☒ |
|           | P08 EFWP             | Polyester | 93            | Natural | 0,30         | Mat        |              |               | Natural |              | WP       | ☉ FDA EU                | ● | ▼ | ☑ |
|           | 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                   | ▼ |   |   |
|           | V12 SCF <sup>v</sup> | Silicone  | 40            | Transp. | 0,30         | Smooth     |              |               | Natural |              | Fabric   | FDA                     | ▼ |   |   |
|           | V12 SUF              | Silicone  | 40            | Transp. | 0,30         | Smooth     |              |               | Natural |              | Fabric   | FDA                     | ▼ |   |   |
|           |                      |           |               |         |              |            |              |               |         |              |          |                         |   |   |   |

## Food Regulations

Their purpose is to guarantee food safety and protect human health and the environment. They affect manufacturers of chemical substances, of food contact materials such as conveyor belts, and food producers, importers and distributors. In belt manufacturing, they restrict the type of substances that can be used and the amount; on some occasions this prevents the use of cheaper substances. These regulations are constantly being changed, requiring us to constantly implement updates. We recommend you visit [www.esbelt.com](http://www.esbelt.com) for the latest information.

### FDA

An FDA product is a product approved by the USA Food and Drug Administration, whose purpose is to guarantee food safety. Those applicable to conveyor belts are the FCS restrictions for Food Contact Substances. The USA has established some of the strictest requirements for food products, but this is not the case when it comes to plastic materials in contact with food. All **esbelt** belts that comply with European regulations also comply with American ones, although the opposite is not usually the case. The list of substances permitted by the FDA for belt manufacturing is spread over several documents, the main one being Title 21 of the Code of Federal Regulations. The suppliers of raw materials for the manufacture of conveyor belts are required to certify which FDA requirements are met and which are not.

### HACCP

The hazard analysis critical control point system (HACCP) is a methodology for good manufacturing, handling and transport practices for food products. Its purpose is to assess health hazards and establish control and correction actions at explicitly identified critical points. It is a work methodology, not a characteristic of belts.

### ATEX

European regulations applied for preventative 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 94/9/EC on non-electrical components).

## EU Regulation 10/2011 and Declaration of Conformity

This is the most important European regulation regarding plastic materials in contact with food. It is much more specific than EC Regulation 1935/2004. It regulates the substances permitted in belt manufacturing, their degree of purity, the migration limits for each of them and the test methods. It also establishes the content of the Declarations of Conformity which all manufacturers, distributors and importers are required to offer their customers, except in retail sales. A certificate that simply states that the belt is 'food grade' or suitable for contact with food, in other words, more general but without including the specific migration test results, does not meet European regulations.

## Antimicrobial belts

As cleaning and disinfection cannot be performed continuously in many processes, food conveyance leaves organic material on the belts, making them a focus for contamination. The use of bacteriostatic **AM belts** reinforces preventative measures, which are at the heart of HACCP good practices. Their use is especially recommended in the processing of RTE or short shelf-life food. Antimicrobial additives such as those based in silver ions are soluble in water and lose their effectiveness under intensive cleaning systems. This is not the case with esbelt AM belts, which are very long-lasting. For reference, the appropriate standards are **ISO 22196** (international), **ASTM E 2149** (USA) or **JIS Z 2801** (Japan), which measure the reduction of microbial growth on a sanitised **AM belt** compared to a reference belt, usually a non-AM belt. Using a reference or control belt which is also sanitised and applying the aforementioned standards provide comparative results and guarantee that it is not the efficacy of the cleaning procedure or the on-site sampling techniques that are being analysed (both with limitations in removing 100% of the microbial load a belt cover). In the tests performed on esbelt AM belts compared to non-AM belts as per ISO 22196, microbial growth was reduced by over 98%.

| Constant<br>(intermittent)<br>temperature<br>°C | Fabrics        |          | Belt<br>thickness<br>mm | Belt<br>weight<br>kg/m² | at 20°C   |           | Breaking<br>load<br>N/mm | Working<br>load at<br>1%<br>elongation<br>N/mm | Working<br>load at<br>1.5%<br>elongation<br>N/mm | Max.<br>roll<br>width<br>mm | Belt type            |       |
|---|----------------|----------|-------------------------|-------------------------|-----------|-----------|--------------------------|--|--|-----------------------------|----------------------|-------|
|   | N° of<br>plies | Weft     |                         |                         | A<br>Ø mm | B<br>Ø mm |                          |  |  |                             |                      |       |
| -15 (-25) +80 (100)                             | 2              | Flexible | 4,10                    | 5,00                    | 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)                            | 1              | Rigid    | 1,30                    | 1,10                    | 10        | 30        | 60                       | 5  | 7  | 2000                        | P08 AFWP             | Poler |
| -20 (-30) +100 (120)                            | 1              | Rigid    | 1,00                    | 1,10                    | 10        | 30        | 60                       | 5  | 7  | 2000                        | P08 EFWP             |       |
| -20 (-30) +100 (120)                            | 2              | Flexible | 2,40                    | 2,50                    | 40        | 100       | 200                      | 12   | 20   | 2000                        | P18 EF               |       |
| -20 (-30) +100 (120)                            | 2              | Flexible | 4,50                    | 3,30                    | 120       | 140       | 200                      | 12   | 20   | 2000                        | P18 T1F              |       |
| -15 (-25) +45 (65)                              | 2              | Rigid    | 1,80                    | 1,75                    | 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              | Rigid    | 1,00                    | 1,00                    | 8         | 20        | 50                       | 5  | 7  | 2000                        | V08 SF               |       |
| -15 (-25) +80 (110)                             | 2              | Rigid    | 1,75                    | 2,00                    | 35        | 55        | 120                      | 10   | 15   | 2-3000                      | V12 SCF <sup>V</sup> |       |
| -15 (-25) +90 (110)                             | 2              | Rigid    | 1,40                    | 1,50                    | 30        | 50        | 120                      | 10   | 15   | 2-3000                      | V12 SUF              |       |
|   |                |          |                         |                         |           |           |                          |  |  |                             |                      |       |



- Antistatic
- Antistatic top cover
- Antistatic bottom cover
- 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

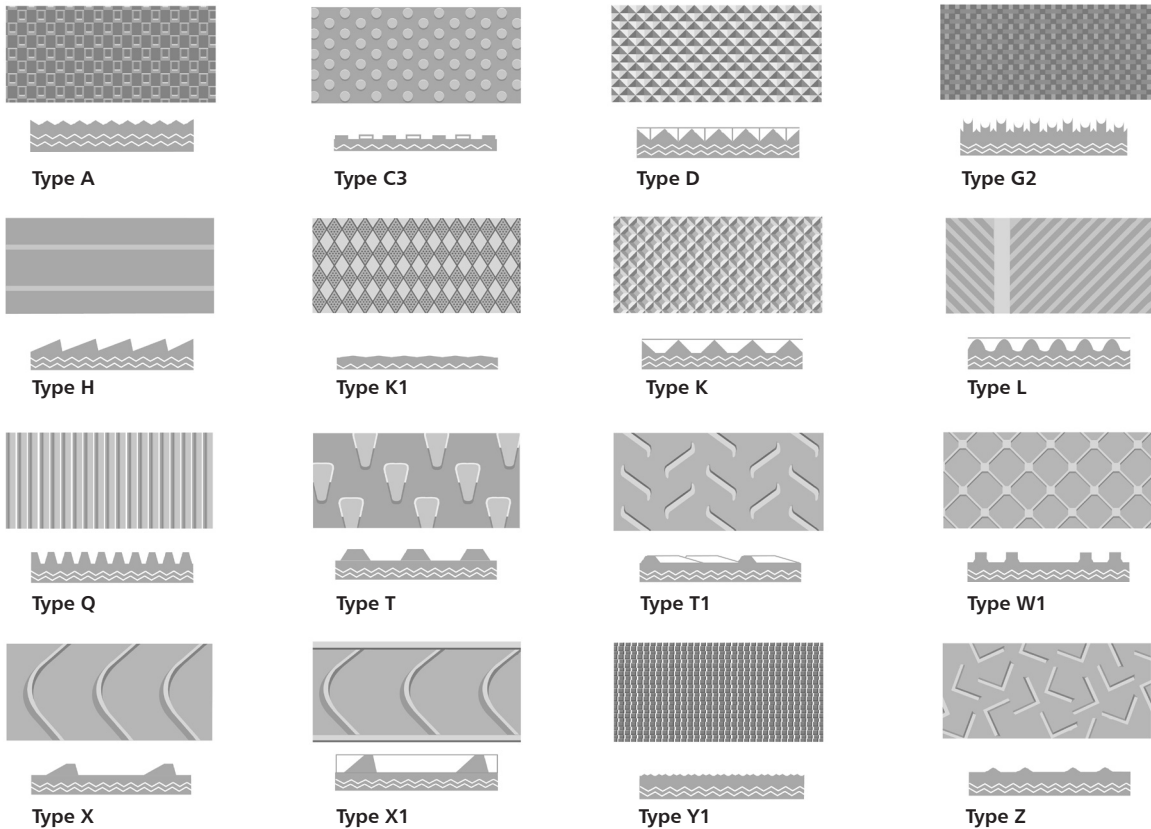
- Cut resistant
- ATEX certified
- Pyrolysis test
- Flame retardant
- Solid Woven
- Anti-microbial
- Microbe-resistant
- Anti-Hydrolysis

### Skirts

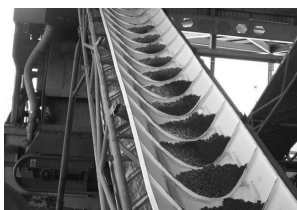
| Type      | Material   | Manufacturing width mm | Thickness mm | Hardness °ShA | Weight Kg/m2 | Available colours        |
|-----------|------------|------------------------|--------------|---------------|--------------|--------------------------|
| V15 PL    | Polyolefin | 1850                   | 2,10         | 91            | 1,10         | Transparent              |
| NF 104    | PVC        | 100                    | 4,00         | 70            | 0,50*        | White, Green 00, Blue 06 |
| UNSS60    | PU         | 62                     | 2,30         | 85            | 0,177*       | White, Green 09, Blue 06 |
| UNRS85    | PU         | 87                     | 3,30         | 85            | 0,365*       | White, Green 09, Blue 06 |
| B07CC     | PVC        | 2000                   | 1,30         | 82            | 1,60         | Green 00                 |
| EF603-A06 | Polyester  | 60                     | 3,00         | 40**          | 2,00         | Blue 06                  |

\*\* °ShD \* Weight in Kg/m

### More usual Patterns

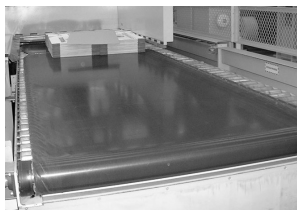


# esbelt series



### 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.** Excellent 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.



### Esport 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, post office and logistics centres.  
**Food.**  
White and blue - FDA food-quality, flame-retardant, resistant 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.



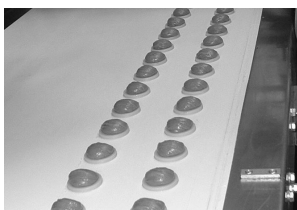
### Keram series

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



### Novak series

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



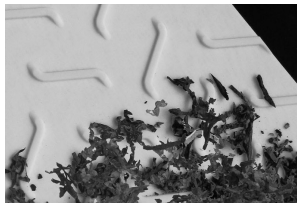
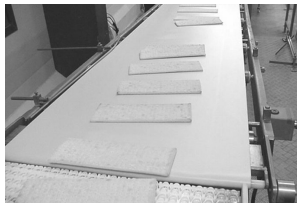
### X series - AM

**Food** and knife-edge applications. White PU belts, with smooth, homogenous covers. Excellent longitudinal flexibility. Resistant to oils and fats. Anti-microbial.



### Poler series

**Tobacco and Food belts.**  
Polyester belts are compliant with Pyrolysis test. They work extremely well at high temperatures.

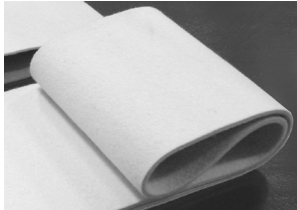


### Verna series

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

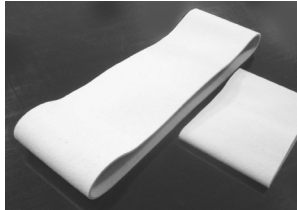


## ...and also



### Tubul Series - truly endless sleeves -

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



| TUBUL Type | Material  | Weight g/m2 | Thickness* mm | Minim.Ø mm | Application   |
|------------|-----------|-------------|---------------|------------|---|
| T2         | 100% wool | 1.400       | 3             | 20         | Food industry: croissant forming machines, automatic oven feeders, bread forming machines headstocks.<br>Textile industry: larding of cotton. |
| T6         |           | 2.700       | 6             | 50         | Food industry: french bread forming machines.<br>Textile industry: polisher of filaments in FIPEL machine.                                    |

(\*)Tolerance of +/- 10%



# Cleats (flights)

## for conveyor belting

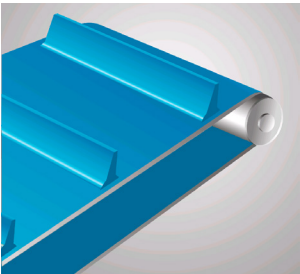
Inclined conveyors occasionally require belts with profiles or cleats (flights) on the carrying surface. These prevent slippage of the conveyed material and increases the belt capacity.

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 upto angles of 70° by this means.

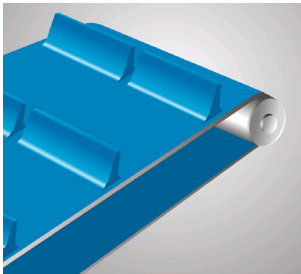
Notched PVC and PU trapezoidal tracking guides can be supplied; this increases belt flexibility and when fitted to the underside of the belt can reduce the minimum pulley diameter by 10%.

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

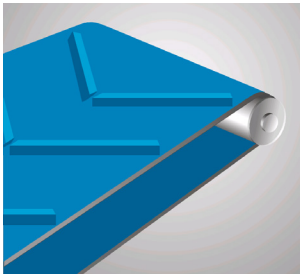
Examples of possible cleat (flight) arrangements are as follows:



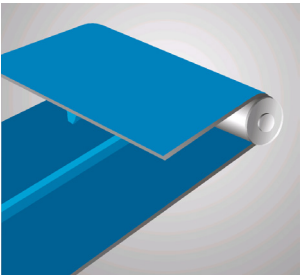
Single transverse cleat



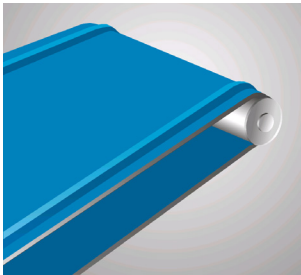
Double transverse cleat



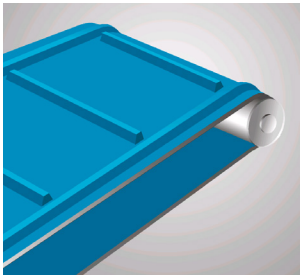
Herringbone "V" pattern



Inner tracking guide

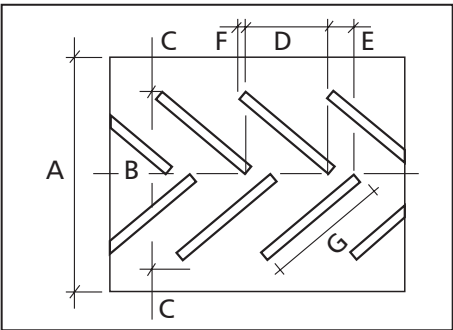


Retaining sidewalls



Single transverse cleat with retaining sidewalls.

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



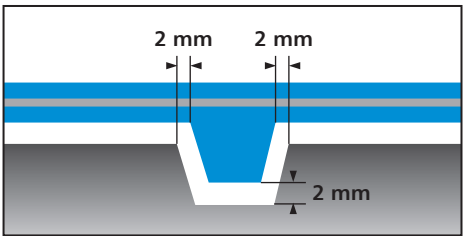
| Dimensions mm |     |     |     |     |     |      |      |
|---------------|-----|-----|-----|-----|-----|------|------|
| A             | 400 | 500 | 600 | 650 | 800 | 1000 | 1200 |
| B             | 300 | 400 | 450 | 480 | 600 | 800  | 900  |
| C             | 50  | 50  | 75  | 85  | 100 | 100  | 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.

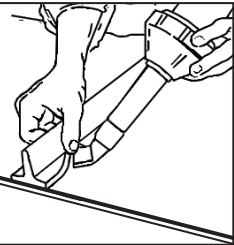
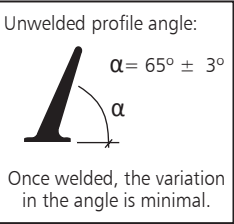


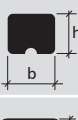


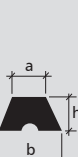
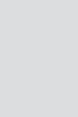






| Material and type of profile |   | Minimum cover thickness |
|------------------------------|---|-------------------------|
| PVC                          | short fingers   | 0,3 mm                  |
|                              | height 20 and 30 mm                                   | 0,5 mm                  |
|                              | 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                           | all types   | 0,3 mm                  |
| TPE                          |   |                         |
| PO                           | all types   | 0,5 mm                  |

# Cleats (flights)

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

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



| Section   | Type      | Dimensions |      |      | Material (1) | Weight g/m | Transverse       |                  | Longitudinal     |          | Possible positioning (3) |
|---|-----------|------------|------|------|--------------|------------|------------------|------------------|------------------|----------|--------------------------|
|   |           | b mm       | h mm | a mm |              |            | minimum pitch mm | minimum Ø (2) mm | minimum Ø mm (2) |          |                          |
|   |           |            |      |      |              |            |                  |                  | bottom side      | top side |                          |
|    | NE.008    | 8          | 8    |      | PVC          | 75         | 28               | 100              | 60               | 110      | T - G - L - V            |
|   | NE.012    | 12         | 12   |      |              | 175        | 32               |                  | 80               | 120      |                          |
|   | PE.008    | 8          | 8    |      | PO           | 56         | 28               | 100              |                  |          | T - V                    |
|   | PE.012    | 12         | 12   |      |              | 133        | 32               |                  |                  |          |                          |
|    | NE.015    | 20         | 15   |      | PVC          | 330        |                  |                  | 200              | 250      | G - L                    |
|    | NA.X04-62 | 6          | 4    | 4,0  | PVC          | 23         |                  |                  | 25               | 30       | G - L                    |
|    | 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      |                          |
|   | 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              |          |                          |
|   | DUE.Z06   | 10         | 5,5  | 6,0  | PU           | 45         |                  |                  | 50               |          | G - L                    |
|   | 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              | 170              |                  |          |                          |
|   | UV.020    | 10         | 20   |      | PU           | 140        |                  | 40               |                  |          | T                        |
| UV.030  | 10        | 30         |      | 180  |              | 30         | 45               |                  |                  |          |                          |
| UV.050  | 10        | 50         |      | 300  |              |            | 50               |                  |                  |          |                          |
|  | PV.020    | 10         | 20   |      | PO           | 95         |                  |                  |                  |          | T                        |
|   | PV.030    | 10         | 30   |      |              | 135        | 30               | 100              |                  |          |                          |
|   | PV.050    | 10         | 50   |      |              | 235        |                  |                  |                  |          |                          |
|   | EV.020    | 10         | 20   |      | TPE          | 130        |                  |                  |                  |          | T                        |
|   | EV.030    | 10         | 30   |      |              | 170        | 30               | 80               |                  |          |                          |
| EV.050  | 10        | 50         |      | 300  |              |            |                  |                  |                  |          |                          |
|  | UL.030    | 10         | 30   |      | PU           | 215        | 40               | 45               |                  |          | T                        |
|   | 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  |              |            |                  |                  |                  |          |                          |
|  | NM.040-62 | 45         | 40   |      | soft PVC     | 640        |                  | 120              |                  |          | T                        |
|   | NM.060-62 | 55         | 60   |      |              | 1120       |                  | 150              |                  |          |                          |
|  | NQ.040-62 | 42         | 40   |      | soft PVC     | 665        |                  | 120              |                  |          | T                        |
|   | NQ.060-62 | 60         | 60   |      |              | 1150       |                  | 150              |                  |          |                          |
|   | NQ.070-62 | 60         | 70   |      |              | 1300       |                  | 170              |                  |          |                          |

| (1) Material |              | Colour                     | Special characteristics            | Hardness | Temperature °C |
|--------------|--------------|----------------------------|------------------------------------|----------|----------------|
| PVC          | PVC          | Green 00 - White - Blue 06 | FDA, EU, antistatic, oil resistant | 70° ShA  | -10 +80        |
| soft PVC     | PVC          | Green 00 - White - Blue 06 | FDA, EU, antistatic, oil resistant | 62° ShA  | -15 +80        |
| PU           | Polyurethane | Green 09 - White - Blue 06 | FDA, EU, oil resistant             | 85° ShA  | -10 +100       |
| PO           | Polyolefin   | Transparent                | FDA, EU, oil resistant             | 90° ShA  | -10 +50        |
| TPE          | Polyester    | Natural                    | FDA, EU, oil resistant             | 40° ShD  | -20 +105       |

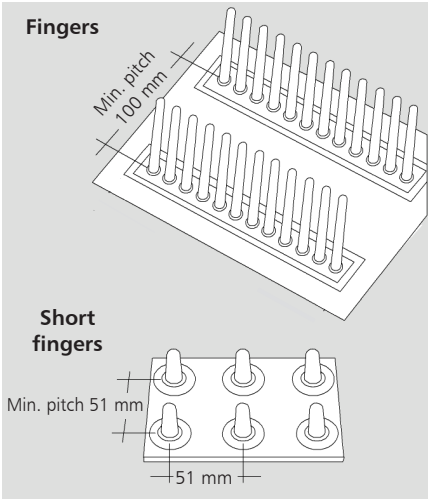
## Special profiles

### 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 appearance) 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.

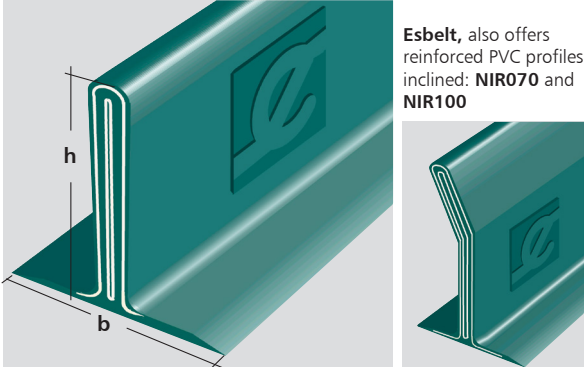
| Profile       | Height mm | Hardness °ShA | Colour        | Ø minimum mm |
|---------------|-----------|---------------|---------------|--------------|
| Fingers       | 92        | 80            | White - Green | 100          |
| Short fingers | 25        | 67            |               | 60           |



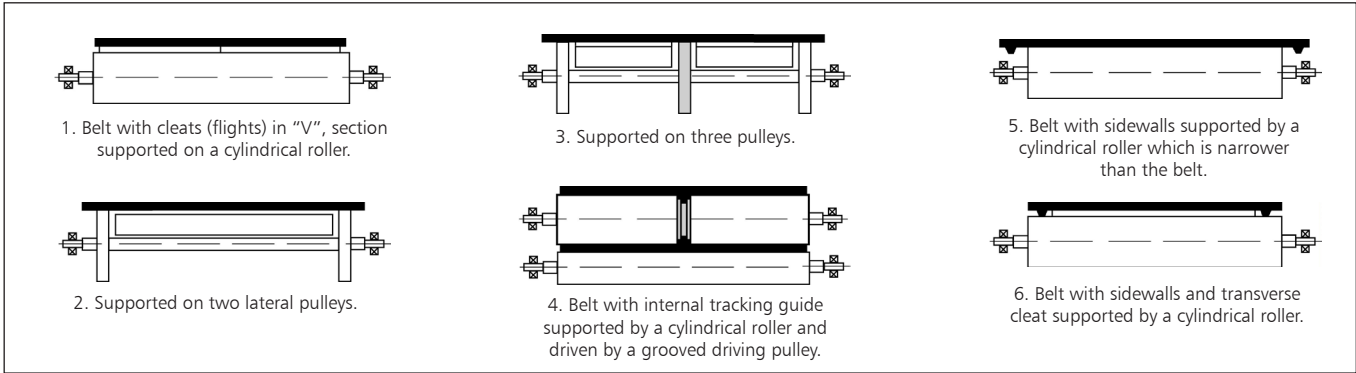
### Reinforced profile

**Esbelt** offers reinforced PVC profiles in 4 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      | Colour                      |
|---------|------------|------|------------------|------------------|----------------|-----------------------------|
|         | b mm       | h mm | Minimum pitch mm | minimum Ø (2) mm |                |                             |
| NRR030  | 50         | 30   | 70               | 120              | 2000 mm strips | Blue 06, White and Green 00 |
| NRR050  |            | 50   |                  |                  |                |                             |
| NRR070  |            | 70   |                  |                  |                |                             |
| NRR100  |            | 100  |                  |                  |                |                             |
| NIR070  |            | 68   |                  |                  |                |                             |
| NIR100  |            | 97   |                  |                  |                |                             |



### Belt support on the return side



# 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 particularly 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 colour - Hardness 70°ShA  
Green colour - Hardness 78°ShA

### FNSS Type

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

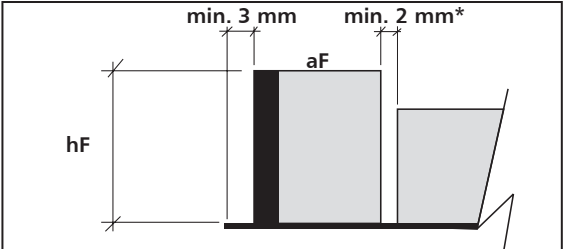
| PVC    | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Hardness °ShA | Thickness mm |
|--------|--------------|-------------|-------------|---------------------|---------------|--------------|
| FNSS35 | 35           | 35          | 30          | 40                  | 70        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

## PU "Runer" - without base -

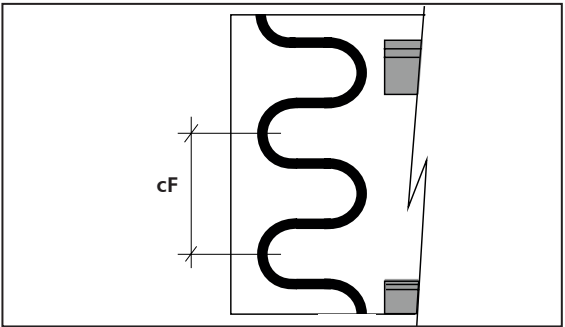
Profile welded directly onto the belt,  
without internal reinforcement.

| PU     | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Hardness °ShA | Thickness mm |
|--------|--------------|-------------|-------------|---------------------|---------------|--------------|
| UNSS35 | 35           | 28          | 30          | 50                  | 85            | 2,3          |
| UNSS40 | 40           | 28          | 30          | 60                  | 85            | 2,3          |
| UNSS45 | 45           | 28          | 30          | 65                  | 85            | 2,3          |
| UNSS50 | 50           | 28          | 30          | 75                  | 85            | 2,3          |
| UNSS55 | 55           | 28          | 30          | 80                  | 85            | 2,3          |
| UNSS60 | 60           | 28          | 30          | 90                  | 85            | 2,3          |

Layout of transverse cleat and "Runer" without base.



\*When a cleat is type NL.070 or NL.080, the minimum distance of 2 mm will be increased to 5 mm.



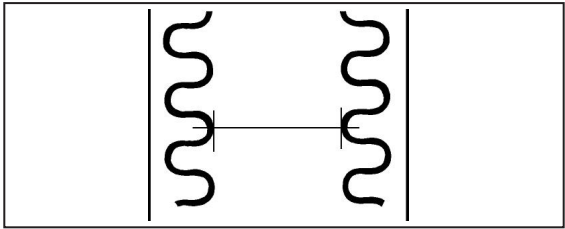
The distance between the transverse cleats should be a multiple of the - cF - pitch, if it is to coincide with the undulation of the "Runer".

The maximum width for belts with Runer is:

- 1,500 mm with PVC Runer.
- 900 mm with PU Runer.

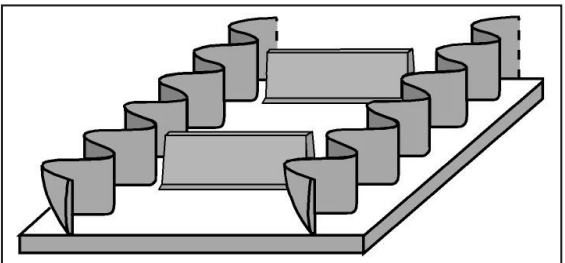
The minimum length for endless belts with the Runer profile is:

- 2,000 mm with PVC Runer.
- 2,310 mm with PU Runer.

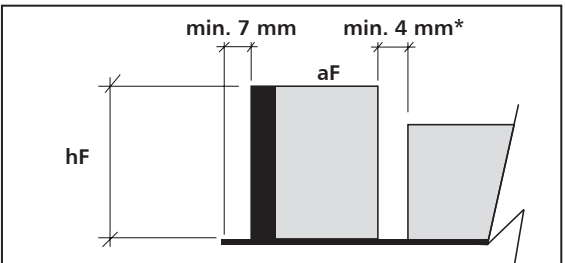


The minimum distance between 2 Runer should be:

- 100 mm with PVC Runers
- 150 mm with PU Runers



The length of the transverse cleats should be a multiple of 25 mm.



\*When the cleat and Runer are PU the minimum distance between them will be 4 mm.

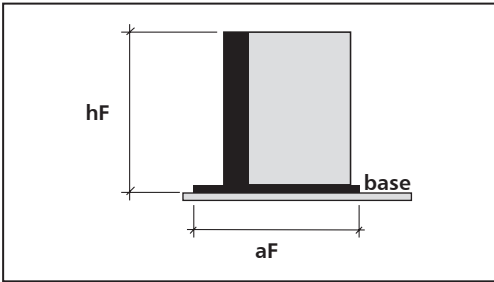


“Runer”  
-with base-



Profile with base for welding by hand with the Leister or using our LSM 1200R machine.

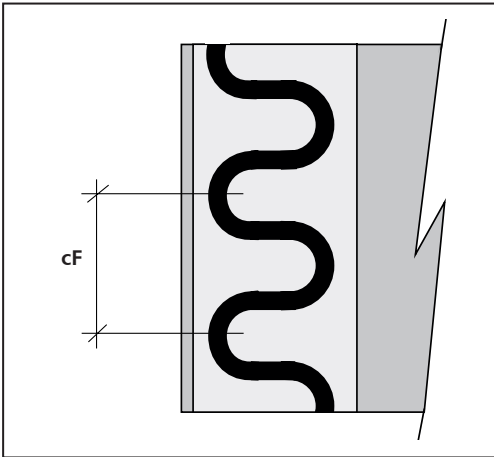
Outline of “Runer” with base.



PVC 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          |

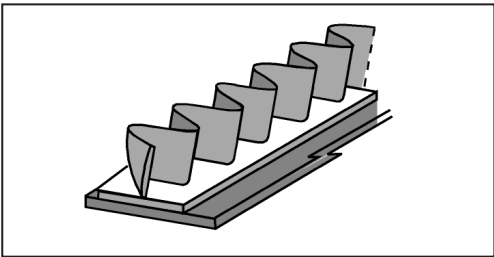
Comments: Wave width = 45 mm  
Thickness base = 3.5 mm



PU UNSM Type

| PU     | hF mm height | aF mm width | cF mm pitch | Minimum diameter mm | Thickness mm |
|--------|--------------|-------------|-------------|---------------------|--------------|
| UNSM35 | 35           | 44          | 30          | 70                  | 2,3          |
| UNSM55 | 55           | 48          | 30          | 100                 | 2,3          |

Comments: Wave width = 28 mm  
Thickness base = 3.3 mm



Available colours

- PVC Runer - White/Blue:** Non-toxic, FDA-EU, suitable for using with foodstuffs.
- **Green:** Suitable for all uses that do not require food quality belts.
- PU Runer - White/Blue/Green:** Non-toxic, FDA-EU, suitable for using with foodstuffs.

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:

|         |                         |   |
|---------|-------------------------|---|
| FSRC55B | 1° Type of material     | F PVC<br>U PU   |
| FSRC55B | 2° Reinforcement        | R Fabric with high transversal rigidity<br>S Fabric with standard transversal rigidity<br>N Not reinforced  |
| FSRC55B | 3° Pitch                | S 30 mm<br>R 55 mm  |
| FSRC55B | 4° Base                 | S Without base<br>C With thin base (PVC=3.5 mm and PU=2.3 mm)<br>M With thick base (PVC=5 mm and PU=3.3 mm) |
| FSRC55B | 5°/6° Runer height (mm) | From 35 mm to 100 mm.   |
| FSRC55B | 7° Colour               | B White<br>V Green<br>A Blue  |

# Some esbelt specialities

## High resistance plastic mesh belts Washflow®

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. Alternative to modular belts, **Washflow** is a highly flexible, light-weight non-toxic PU mesh with internal reinforcement that meets FDA and EU standards and is highly resistant to abrasion and hydrolysis.

It is manufactured with different grid sizes to adapt to various granulometries and flows.



## Grape harvesting machine belts

Our many year experience and number of metres manufactured make **esbelt** a leading company in this market.

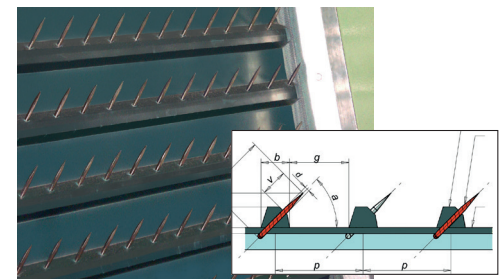
Well tested and widely recognised belts, they offer robustness and high transversal rigidity, working fully flat and centred. They last twice the average and can be repaired allowing a belt life up to two seasons. High frequency thermowelded profiles with excellent resistance to impact and tear.



## Monoblock apron belts with pins

High performance, very reliable monoblock aprons for combing and carding machines, suitable for high loads.

Base belts with heat-sealed profiles, forming a single body and U-shaped pins attached from the bottom to ensure that they do not fall off, thus avoiding risks to the machine operation.



## Conveyor belt for ski resorts: boarding and disembarking the chair lift

Designed to help align skiers during the chair lift loading process. Increases transport capacity usage and decreases emergency stops and energy consumption.

Green colour belt with highly visible and unerasable yellow lines defining each lane. Abrasion resistant and high load capacity.



## wasb® : Specific detergent for Conveyor Belts

**WASB** is an enzymatic detergent with an innovative formulation that guarantees proper conveyor belt cleaning without causing deterioration, favouring hygiene in facilities and food safety. It irreversibly degrades fats, oils and other organic waste, such as biofilms.

It is a pH-neutral, 100% biodegradable foaming liquid that helps ensure the effectiveness of subsequent disinfectants, while avoiding corrosion of the conveyor equipment



## ...other specialities

**Esbelt** offers many other belt specialities such as: **sealed edges** to protect/seal the edges of the belt against bacteria or fraying; splices with **hidden fasteners**; **continuous waves** on the belt surface to protect and convey delicate fruit, **cut longitudinal profiles**, very popular in the fruit and vegetable sector; **elevator** belts with **holes** for attaching buckets, and many more.

# 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.

| white | Type | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | ø mm<br>holes | nº<br>holes | capacity<br>l | weight<br>g |
|-------|------|---------|---------|---------|---------|---------|---------------|-------------|---------------|-------------|
|       | 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)

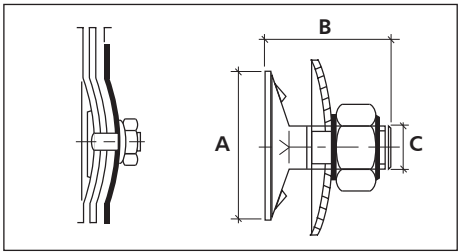
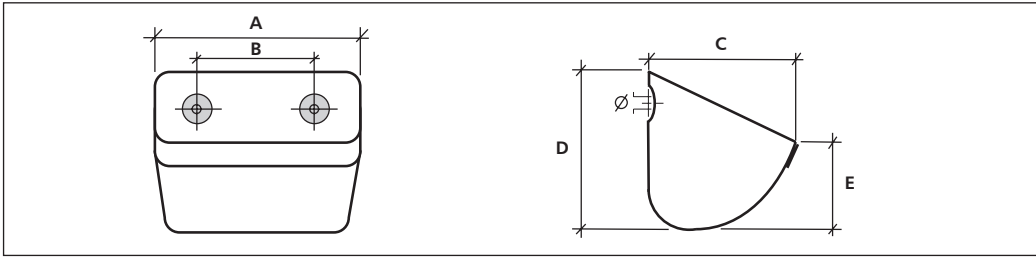


**Polyamide material. Antistatic.** Regulation EU 10/2011 and EC 1935/2004. Maximum service temperature 110°C. For use with small or medium size granular abrasive materials, rice, sugar, cereals, granulated feeds, cement, clay, active chemicals, detergents, fertilizers, salt, etc.

| green | Type | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | ø mm<br>holes | nº<br>holes | capacity<br>l | weight<br>g |
|-------|------|---------|---------|---------|---------|---------|---------------|-------------|---------------|-------------|
|       | 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         |



|       |     |     |     |     |     |    |    |   |      |     |
|-------|-----|-----|-----|-----|-----|----|----|---|------|-----|
| 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 |
|       |     |     |     |     |     |    |    |   |      |     |



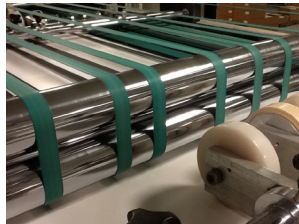
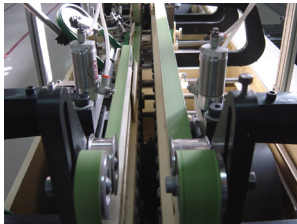
| Type     | A<br>mm | B<br>mm | C<br>mm |
|----------|---------|---------|---------|
| M6 x 25  | 20      | 25      | 6       |
| M8 x 30  | 28      | 30      | 8       |
| M10 x 40 | 28      | 40      | 10      |

Bucket galvanized steel bolt with belt securing bosses, together with nut and concave washer.

# Toptrans. Transmission and process belts.

|                      | Sector  | Type    | Colour      |               | Material     |                   | Thickness mm |               |
|----------------------|---|---------|-------------|---------------|--------------|-------------------|--------------|---------------|
|                      |   |         | Top surface | Drive surface | Top surface  | Drive surface     | Top surface  | Drive surface |
| Leather              | Transmission<br><small>DIRTY AND DUSTY APPLICATIONS</small> | LF 10   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,00          |
|                      |   | LF 14   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,00          |
|                      |   | LF 20   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,00          |
|                      |   | LF 25   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,00          |
|                      |   | LF 30   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,00          |
|                      |   | LF 40   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,00          |
|                      |   | LF 54   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,20          |
|                      |   | LF 80   | Black 80    | Grey 80       | Nylon fabric | Leather           | 0,30         | 2,20          |
|                      |   | LL 10   | Grey 80     | Grey 80       | Leather      | Leather           | 2,00         | 2,00          |
|                      |   | LL 14   | Grey 80     | Grey 80       | Leather      | Leather           | 2,00         | 2,00          |
|                      |   | LL 20   | Grey 80     | Grey 80       | Leather      | Leather           | 2,00         | 2,00          |
|                      |   | LL 25   | Grey 80     | Grey 80       | Leather      | Leather           | 2,00         | 2,00          |
|                      |   | LL 30   | Grey 80     | Grey 80       | Leather      | Leather           | 2,00         | 2,00          |
|                      |   | LL 40   | Grey 80     | Grey 80       | Leather      | Leather           | 2,00         | 2,00          |
|                      | Sector  | Type    | Colour      |               | Material     |                   | Thickness mm |               |
|                      |   |         | Top surface | Drive surface | Top surface  | Drive surface     | Top surface  | Drive surface |
| Elastomer and Fabric | Graphic Sector  | EE 04   | Green 83    | Green 83      | NBR          | NBR               | 0,60         | 0,60          |
|                      |   | EE 06   | Green 83    | Green 83      | NBR          | NBR               | 0,60         | 0,60          |
|                      |   | FE 06   | Green 83    | Black 80      | NBR          | Nylon fabric      | 0,50         | 0,35          |
|                      |   | FE 10   | Green 83    | Black 80      | NBR          | Nylon fabric      | 0,60         | 0,30          |
|                      |   | FF 06   | Green 81    | Green 81      | Nylon fabric | Nylon fabric      | 0,30         | 0,30          |
|                      |   | FF 10N  | Black 80    | Black 80      | Nylon fabric | Nylon fabric      | 0,30         | 0,30          |
|                      |   | FF 20N  | Black 80    | Black 80      | Nylon fabric | Nylon fabric      | 0,30         | 0,30          |
|                      |   | FE 10/2 | Green 83    | Black 80      | NBR          | Nylon fabric      | 1,20         | 0,30          |
|                      |   | FE 14/3 | Green 83    | Black 80      | NBR          | Nylon fabric      | 2,10         | 0,30          |
|                      |   | FE 14/4 | Green 83    | Black 80      | NBR          | Nylon fabric      | 2,70         | 0,30          |
|                      |   | EE 10/3 | Green 83    | Green 83      | NBR          | NBR               | 1,20         | 1,20          |
|                      |   | EE 10/4 | Green 83    | Green 83      | NBR          | NBR               | 1,70         | 1,70          |
|                      |   | EE 14/5 | Green 83    | Green 83      | NBR          | NBR               | 2,10         | 2,10          |
|                      |   | EE 14/6 | Green 83    | Green 83      | NBR          | NBR               | 2,70         | 2,70          |
|                      | Tangential  | FC 04   | Natural 80  | Green 81      | Mixed fabric | Nylon fabric      | 0,30         | 0,30          |
|                      |   | FC 06   | Natural 80  | Green 81      | Mixed fabric | Nylon fabric      | 0,30         | 0,30          |
|                      |   | FC 04H  | Ocher 80    | Green 81      | Mixed fabric | Rubberized fabric | 0,30         | 0,35          |
|                      |   | EE 10   | Green 83    | Green 83      | XNBR         | XNBR              | 0,70         | 0,70          |
|                      |   | EE 14   | Green 83    | Green 83      | XNBR         | XNBR              | 0,70         | 0,70          |
|                      |   | EE 20   | Green 83    | Green 83      | XNBR         | XNBR              | 0,70         | 0,70          |
|                      |   | EE 25   | Green 83    | Green 83      | XNBR         | XNBR              | 0,70         | 0,70          |
|                      |   | EE 30   | Green 83    | Green 83      | XNBR         | XNBR              | 0,70         | 0,70          |
|                      | Transmission  | EE 33   | Green 83    | Green 83      | XNBR         | XNBR              | 0,70         | 0,70          |
|                      |   | EF 06   | Black 80    | Green 83      | Nylon fabric | NBR               | 0,35         | 0,50          |
|                      |   | EF 10   | Black 80    | Green 83      | Nylon fabric | NBR               | 0,30         | 0,70          |
|                      |   | EF 14   | Black 80    | Green 83      | Nylon fabric | NBR               | 0,30         | 0,70          |
|                      |   | EF 20   | Black 80    | Black 81      | Nylon fabric | XNBR              | 0,30         | 0,70          |
|                      |   | EF 25   | Black 80    | Black 81      | Nylon fabric | XNBR              | 0,30         | 0,70          |
|                      |   | EF 30   | Black 80    | Black 81      | Nylon fabric | XNBR              | 0,30         | 0,70          |
|                      |   | EF 40   | Black 80    | Black 81      | Nylon fabric | XNBR              | 0,30         | 0,70          |

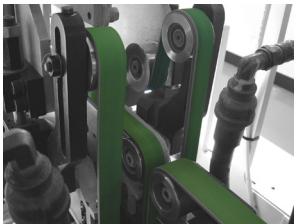
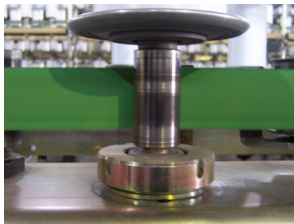
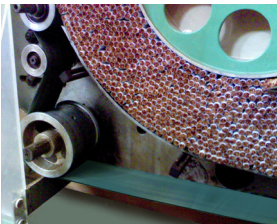
NR: Natural rubber.    NBR: Nitrile rubber.    XNBR: Carboxilated nitrile rubber.





| Total weight<br>Kg/m2 | Thickness<br>mm | Shaft load at 1% elongation<br>N/mm | Tensile strength<br>N/mm | Elongation at break<br>% | Minimum pulley ø<br>mm | Type    | Applications   |
|-----------------------|-----------------|-------------------------------------|--------------------------|--------------------------|------------------------|---------|--|
| 2,60                  | 2,80            | 10                                  | 225                      | 22                       | 40                     | LF 10   | Transmissions in two pulley drive systems in dirty and dusty environments              |
| 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   | Multi pulley drive transmission in dirty and dusty environments.                       |
| 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<br>Kg/m2 | Thickness<br>mm | Shaft load at 1% elongation<br>N/mm | Tensile strength<br>N/mm | Elongation at break<br>% | Minimum pulley ø<br>mm | Type    | Applications   |
| 1,69                  | 1,40            | 4                                   | 90                       | 22                       | 20                     | EE 04   | Light transmissions, controller belts in cross cutters and feeders.                    |
| 1,90                  | 1,55            | 6                                   | 135                      | 22                       | 25                     | EE 06   |  |
| 1,30                  | 1,25            | 6                                   | 135                      | 22                       | 20                     | FE 06   | General use in paper folding, transferring, offset and rotary printing.                |
| 1,30                  | 1,25            | 6                                   | 135                      | 22                       | 20                     | FE 10   |  |
| 0,80                  | 0,95            | 6                                   | 135                      | 22                       | 20                     | FF 06   | Feeder belts in offset printing and PE bag machines.                                   |
| 0,95                  | 1,10            | 10                                  | 225                      | 22                       | 25                     | FF 10N  | Process belts in applications where very high abrasion occurs in the carrying surface. |
| 1,50                  | 1,60            | 20                                  | 450                      | 22                       | 70                     | FF 20N  |  |
| 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 |  |
| 3,20                  | 2,90            | 10                                  | 225                      | 22                       | 30                     | EE 10/3 | Box folding belts in folder-gluer machines.  |
| 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 |  |
| 0,65                  | 0,80            | 4                                   | 90                       | 22                       | 15                     | FC 04   | Spindle tapes in textile industry.   |
| 0,80                  | 0,95            | 6                                   | 135                      | 22                       | 20                     | FC 06   |  |
| 0,55                  | 0,65            | 3                                   | 70                       | 22                       | 15                     | FC 04H  |  |
| 2,25                  | 1,90            | 10                                  | 225                      | 22                       | 35                     | EE 10   | Tangential belts in textile industry. Transmission in multi pulley drives.             |
| 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   | Two pulley drive transmission.   |
| 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: 540 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 reinforced belts: <1%.

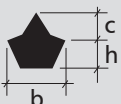
## Round belts

| Section   | Hardness 88° ShA<br>Smooth green 14 | Diameter (d)<br>mm | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|-------------------------------------|--------------------|------------------|---------------|----------------------------|
|  | RS88L03                             | 3                  | 100              | 9             | 25                         |
|   | RS88L04                             | 4                  | 100              | 15            | 40                         |
|   | RS88L05                             | 5                  | 100              | 24            | 50                         |
|   | RS88L06                             | 6                  | 100              | 34            | 60                         |
|   | RS88L07                             | 7                  | 100              | 50            | 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              | 50            | 60                         |
|   | RS88R08                             | 8                  | 100              | 60            | 80                         |
|   | RS88R10                             | 10                 | 50               | 94            | 100                        |
|   | RS88R12                             | 12                 | 50               | 135           | 120                        |
|   | RS88R15                             | 15                 | 50               | 212           | 150                        |


## Round belts with Aramid reinforcement

| Section   | Hardness 92° ShA<br>Smooth yellow 00 | Diameter (d)<br>mm | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|--------------------------------------|--------------------|------------------|---------------|----------------------------|
|  | RK92L08                              | 8                  | 100              | 60            | 85                         |
|   | RK92LW6                              | 9,5                | 50               | 85            | 100                        |
|   | RK92LW8                              | 12,5               | 50               | 145           | 130                        |
|   | RK92L15                              | 15                 | 50               | 212           | 155                        |
|   | RK92L18                              | 18                 | 50               | 305           | 185                        |
|   | Hardness 88° ShA<br>Rough green 14   |                    |                  |               |                            |
|   | RK88R08                              | 8                  | 100              | 60            | 80                         |
|   | RK88R10                              | 10                 | 50               | 94            | 100                        |
|   | RK88R12                              | 12                 | 50               | 135           | 120                        |
|   | RK88R15                              | 15                 | 50               | 212           | 150                        |


## Ridge top belts

| Section   | Hardness 88° ShA<br>Green 14  | Dimensions |         |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|-------------------------------|------------|---------|---------|------------------|---------------|----------------------------|
|   |                               | b<br>mm    | h<br>mm | c<br>mm |                  |               |                            |
|  | PS88L0A                       | 13         | 8       | 7       | 50               | 130           | 130                        |
|   | PS88L0B                       | 17         | 11      | 9       | 50               | 240           | 180                        |
|   | PS88L0C                       | 22         | 15      | 10      | 50               | 410           | 230                        |
|   | Hardness 92° ShA<br>Yellow 00 |            |         |         |                  |               |                            |
|   | PS92L0B                       | 17         | 11      | 9       | 50               | 240           | 265                        |
|   | PS92L0C                       | 22         | 15      | 10      | 50               | 410           | 340                        |

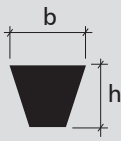
## Ridge top belts with Aramid reinforcement

| Section   | Hardness 88° ShA<br>Green 14 | Dimensions |         |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|------------------------------|------------|---------|---------|------------------|---------------|----------------------------|
|   |                              | b<br>mm    | h<br>mm | c<br>mm |                  |               |                            |
|  | PK88L0A                      | 13         | 8       | 7       | 50               | 130           | 130                        |
|   | PK88L0B                      | 17         | 11      | 9       | 50               | 240           | 180                        |
|   | PK88L0C                      | 22         | 15      | 10      | 50               | 410           | 230                        |

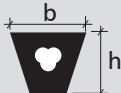
## Pentagonal belts with Polyester reinforcement

| Section   | Hardness 88° ShA<br>Green 14 | Dimensions |         |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|------------------------------|------------|---------|---------|------------------|---------------|----------------------------|
|   |                              | b<br>mm    | h<br>mm | c<br>mm |                  |               |                            |
|  | DF88L0B                      | 17         | 10      | 10      | 50               | 300           | 210                        |
|   | DF88L0C                      | 21,5       | 14,6    | 10,4    | 50               | 440           | 265                        |

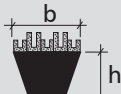
## Trapezoidal Vee belts

| Section   | Hardness 88° ShA<br>Green 14  | Dimensions |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|-------------------------------|------------|---------|------------------|---------------|----------------------------|
|   |                               | b<br>mm    | h<br>mm |                  |               |                            |
|  | TS88L0Z                       | 10         | 6       | 50               | 64            | 70                         |
|   | TS88L0A                       | 13         | 8       | 50               | 102           | 90                         |
|   | TS88L0B                       | 17         | 11      | 50               | 172           | 115                        |
|   | TS88L0C                       | 22         | 14      | 50               | 286           | 160                        |
|   | Hardness 92° ShA<br>Yellow 00 |            |         |                  |               |                            |
|   | TS92L0Z                       | 10         | 6       | 50               | 64            | 80                         |
|   | TS92L0A                       | 13         | 8       | 50               | 102           | 100                        |
|   | TS92L0B                       | 17         | 11      | 50               | 172           | 130                        |
|   | TS92L0C                       | 22         | 14      | 50               | 286           | 180                        |

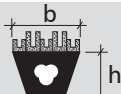
## Trapezoidal Vee belts with Aramid reinforcement

| Section   | Hardness 88° ShA<br>Green 14 | Dimensions |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|------------------------------|------------|---------|------------------|---------------|----------------------------|
|   |                              | b<br>mm    | h<br>mm |                  |               |                            |
|  | TK88L0A                      | 13         | 8       | 50               | 102           | 90                         |
|   | TK88L0B                      | 17         | 11      | 50               | 172           | 115                        |
|   | TK88L0C                      | 22         | 14      | 50               | 286           | 160                        |

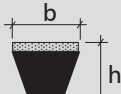
## Trapezoidal Vee belts with PVC rough top cover

| Section   | Hardness 88° ShA<br>Green 14 | Dimensions |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|------------------------------|------------|---------|------------------|---------------|----------------------------|
|   |                              | b<br>mm    | h<br>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 V-belts with PVC rough top cover & Aramid reinforcement

| Section   | Hardness 88° ShA<br>Green 14 | Dimensions |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|------------------------------|------------|---------|------------------|---------------|----------------------------|
|   |                              | b<br>mm    | h<br>mm |                  |               |                            |
|  | TK88G0A                      | 13         | 12      | 50               | 132           | 100                        |
|   | TK88G0B                      | 17         | 15      | 50               | 215           | 120                        |
|   | TK88G0C                      | 22         | 18      | 50               | 336           | 180                        |

## Trapezoidal Vee belts with smooth top cover

| Section   | Hardness 88° ShA<br>Green 14 | Dimensions |         | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|------------------------------|------------|---------|------------------|---------------|----------------------------|
|   |                              | b<br>mm    | h<br>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                        |

## Polyester belts

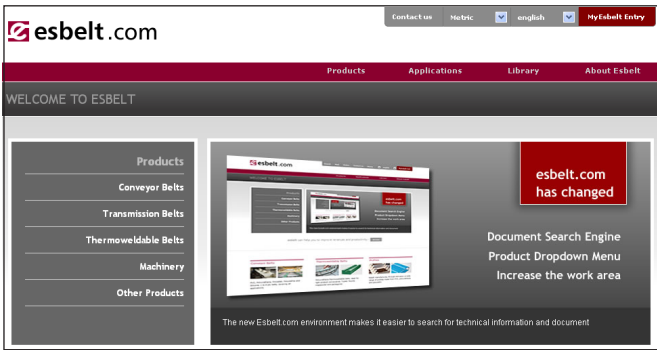
| Section   | Hardness 55° ShD<br>Natural 00 | Diameter (d)<br>mm | Roll length<br>m | Weight<br>g/m | Min. pulley<br>diameter mm |
|---|--------------------------------|--------------------|------------------|---------------|----------------------------|
|  | RSE55LW6                       | 9,5   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

Round and trapezoidal extruded belts with and without polyester reinforcement, also available in PU blue FDA and EU food quality (Regulation 1935/2004), 80 °ShA.

## Web Site

**Esbelt** provides a website that includes constantly updated information on our products (technical specifications, splicing instructions, applications in different sectors, and more), as well as a virtual office open 24 hours a day, to produce immediate and personalised automatic quotes, with help and interactive drawings.

- Product Search
- Product Technical Specifications
- Technical Information
- Auto Quotes
- Product Application
- Auto Digital Catalogue



## 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 lengthways. Easy-to-handle **portable slitter** for cutting belts -maximum width 2,150 mm -, and **automatic slitter** for workshop available in 2,150 and 3,400 mm width.

**Ply separator** for highly accurate separation of the ends of 2 and 3-ply belts.

Semi-automatic hydraulically operated **finger-cutting machine**, designed for cutting fingers in the ends of belts for splicing. Working width 1,370 mm.

### Longitudinal and runer with base welder.

A pneumatically operated machine for hot-air welding on belts with a maximum width of 1,200 mm. We also have a welder just for longitudinal profiles.

**Presses** for vulcanising belts of different widths (600, 1,100 and 1,600 mm), providing a magnificent finish on splices.

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



LCU 215



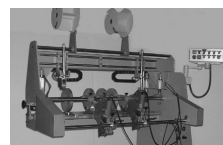
LCM 210EEN



LST 150



LTU 100V7



LSM 1200R



LSM 1000



LPBE 600AC



LPBE 1100



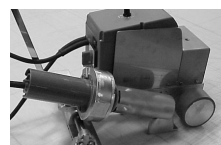
LPBE 1100A



LPBE 1600A



LP 9000



LVM 000



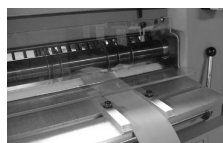
LX 0001

## Machinery for Handling Flat Belts.

300 and 500-mm circular **slitters**, which cut up to a thickness of 7 mm.

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

Portable **presses** for splicing belts of different widths (30, 50, 100 and 300 mm).



LCCB 500



LCCB 300



LBCE 300



LPCE 300



LPCZ 50



LPCZ 30



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