APR
2012

Fenner Drives®

TECHNICAL DATA & INFORMATION

# EAGLE®

POLYURETHANE BELTING & O-RINGS

# Product Range

EAGLE®
POLYURETHANE BELTING & O-RINGS

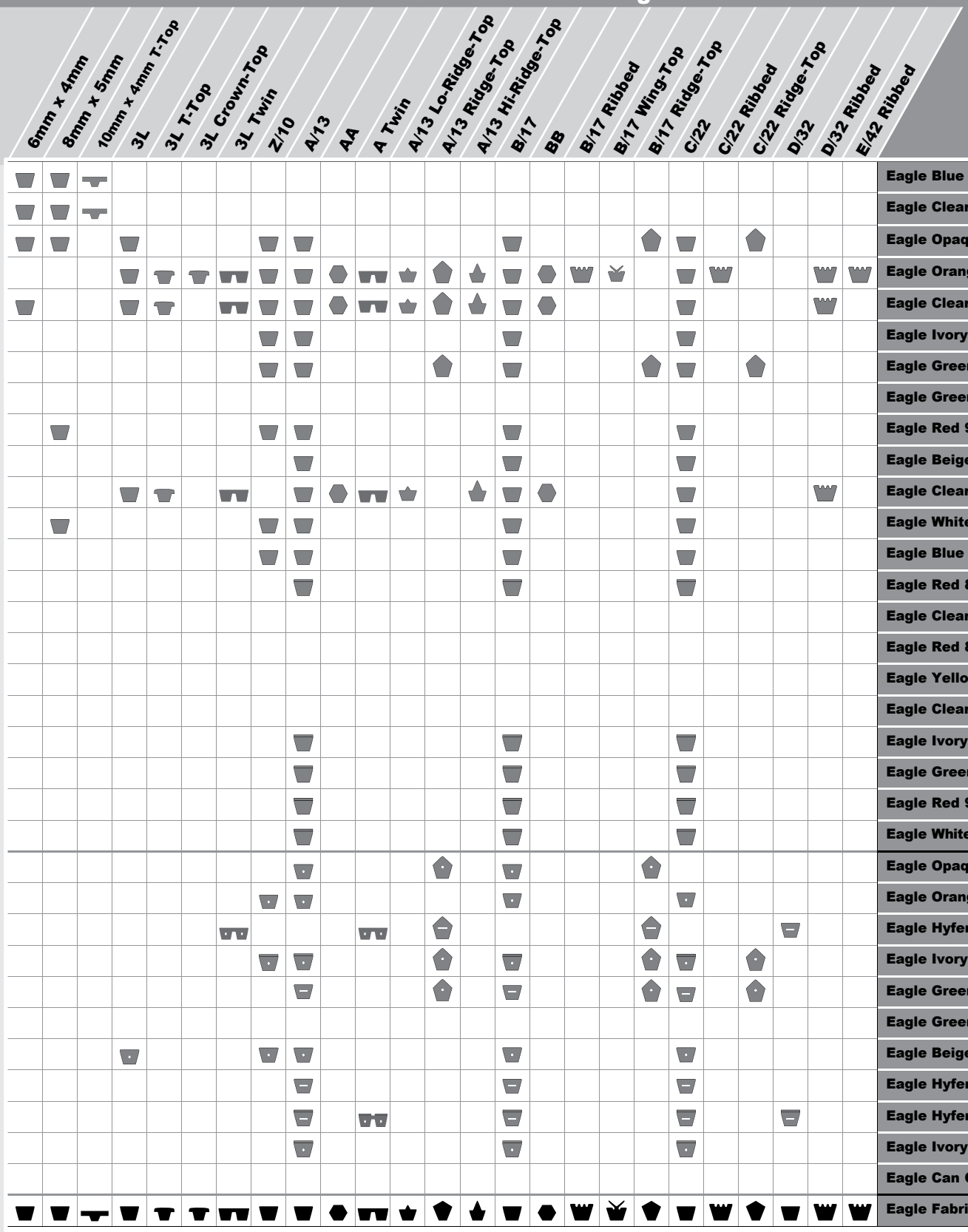
## Round Belting

| | | 2mm | 2.4mm | 3/32" 3mm | 1/8" 4mm | 5mm | 3/16" 6mm | 6.3mm | 1/4" 7mm | 8mm | 5/16" 9.5mm | 3/8" 10mm | 12mm | 1/2" 12.5mm | 13mm | 9/16" 14mm | 15mm | 5/8" 16mm | 18mm | 19mm | 3/4" 20mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Non-Reinforced Belting | Eagle Blue 80 EC‡ | | | ● | ● | ● | ● | ● | | ● | ● | ● | | | | | | | | | |
| | Eagle Clear 80 EC‡ | | | ● | ● | ● | ● | ● | | ● | ● | ● | | | | | | | | | |
| | Eagle Opaque 80 | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | | ● | | ● | | |
| | Eagle Orange 85‡ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | ● | | ● | |
| | Eagle Clear 85‡ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | ● | | ● | |
| | Eagle Ivory 85 | | | | | | | | | | | | | | | | | | | | |
| | Eagle Green 89 | | | | | | | | | | ● | ● | | | | ● | | ● | | | ● |
| | Eagle Green 89 T | ● | | ● | ● | ● | ● | | ● | ● | | ● | ● | | | | ● | | ● | | ● |
| | Eagle Red 90 | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● | ● | | | | |
| | Eagle Beige 95‡ | | | | | ● | | | | ● | | ● | | | | | ● | | | | |
| | Eagle Clear 95‡ | | ● | ● | | ● | | ● | | ● | ● | | | ● | | ● | | ● | | ● | |
| | Eagle White 40D‡ | | | ● | ● | ● | ● | | | ● | | ● | ● | | | | ● | | ● | | ● |
| | Eagle Blue 55D | | | | | | | | | | | ● | | | | | ● | | ● | | |
| | Eagle Red 85 CXF | | | | | | | | | | | | | | | | | | | | |
| | Eagle Clear 85 QC‡ | | | | | ○ | ○ | ○ | | ○ | ○ | | | ○ | ○ | | | ○ | | | |
| | Eagle Red 85 QC | | | | | ○ | ○ | | | ○ | | ○ | ○ | | ○ | | | ○ | | | |
| | Eagle Yellow 85 QC‡ | | | | | ○ | | ○ | | ○ | ○ | | | ○ | | | | ○ | | | |
| | Eagle Clear 85 TOR | | | | | ◎ | | | | | | | | | | | | | | | |
| | Eagle Ivory 85 SGT* | | | | | | | | | | | | | | | | | | | | |
| | Eagle Green 89 SGT PVC | | | | | | | | | | | | | | | | | | | | |
| | Eagle Red 90 SGT PVC | | | | | | | | | | | | | | | | | | | | |
| | Eagle White 40D SGT PVC | | | | | | | | | | | | | | | | | | | | |
| Reinforced Belting | Eagle Opaque 80 R | | | | | | | | | ⊙ | | ⊙ | | | | | ⊙ | | | | |
| | Eagle Orange 85 R‡ | | | | | | ⊙ | ⊙ | | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | | ⊙ | ⊙ | ⊙ | | ⊙ | ⊙ |
| | Eagle Hyfen 85 R‡ | | | | | ⊙ | | ⊙ | | ⊙ | ⊙ | | | ⊙ | | ⊙ | | ⊙ | | ⊙ | |
| | Eagle Ivory 85 R | | | | | | | | | | | | | | | | | | | | |
| | Eagle Green 89 R | | | | | | | | | | | | | | | | | | | | |
| | Eagle Green 89 RT | | | | | ⊙ | ⊙ | | ⊙ | ⊙ | | ⊙ | ⊙ | | | | ⊙ | | ⊙ | | |
| | Eagle Beige 95 R‡ | | | | | | | | | ⊙ | | ⊙ | | | | | ⊙ | | | | |
| | Eagle Hyfen 95 R‡ | | | | | | | | | | | | | | | | | | | | |
| | Eagle Hyfen 85 CXF/CXR | | | | | | | | | | | | | | | | | | | | |
| | Eagle Ivory 85 RSGT* | | | | | | | | | | | | | | | | | | | | |
| | Eagle Can Cable†,‡ | | | | | | | | | | ◉ | | | | | | | | | | |
| | Eagle Fabricated Belts | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

| | | | |
|---|---|---|---|
| *R* | *Reinforced* | *LCF* | *Low Coefficient of Friction* |
| *T* | *Textured* | *CXF* | *Co-extruded Flat* |
| *RT* | *Reinforced Textured* | *CXR* | *Co-extruded Ribbed* |
| *QC* | *Quick-Connect* | *SGT* | *SuperGrip Top* |
| *TOR* | *Twisted O-Rings* | *RSGT* | *Reinforced SuperGrip Top* |

* *Eagle Ivory 85 SGT and RSGT available with PVC, PU or TPE top surface.*
† *Can Cable available in Red 50D LCF, Blue 55D, Blue 55D Aramid, Natural 55D, Green 63D, and Natural 63D.*
‡ *These belts are manufactured from FDA compliant materials except Eagle Can Cable Red 50D LCF.*

## V Belting




***Note:*** *Some diameters and cross sections may be subject to minimum orders. Dimensions are for reference only. Flat belting available in Eagle Orange 85. Additional cross sections, colours, and durometers are available. Contact Applications Engineering at ae@fennerdrives.com for design assistance.*

# EAGLE®

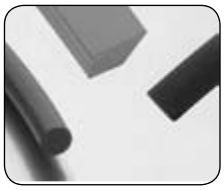
POLYURETHANE BELTING & O–RINGS

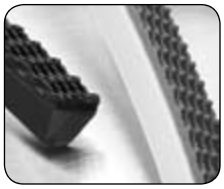
*The possibilities are endless with Eagle Polyurethane & Polyester Belting and O-Rings from Fenner Drives. As a world leader in belting, we have a comprehensive range of high quality non-reinforced and reinforced products.*

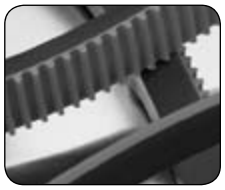
*From light, medium or heavy duty conveying to custom profiles, Fenner Drives has the right product for your application.*

## Contents









Fenner Drives®

# Part Number Listing

## Round Profiles – Non-Reinforced

| | Eagle Blue 80 EC | Eagle Clear 80 EC | Eagle Opaque 80 | Eagle Orange 85 | Eagle Clear 85 | Eagle Green 89 | Eagle Green 89 T | Eagle Red 90 | Eagle Beige 95 | Eagle Clear 95 | Eagle White 40D | Eagle Blue 55D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/32" | | | | 1032003 | 4908003 | | | | | 4907003 | | |
| 1/8" | | | | 1032004 | 4908006 | | | | | 4907006 | | |
| 3/16" | | | | 1032006 | 4908009 | | | 4940022 | | 4907009 | | |
| 1/4" | | | 4940003 | 1032008 | 4908012 | | | 4940023 | | 4907012 | | |
| 5/16" | | | | 1032010 | 4908015 | | | | | 4907015 | | |
| 3/8" | | | 4940005 | 1032012 | 4908018 | | | 4940025 | | 4907018 | | |
| 1/2" | | | 4940011 | 1032016 | 4908024 | | | 4940026 | | 4907024 | | |
| 9/16" | | | | 1032018 | 4908027 | | | 4940036 | | 4907027 | | |
| 5/8" | | | | 1032020 | 4908030 | | | | | 4907030 | | |
| 3/4" | | | | 1032024 | 4908033 | | | | | 4907033 | | |
| 2mm | | | L04OP802M | L04OG852M | L04C852M | | 4905302 | 4940017 | | | | |
| 3mm | 4928001 | 4927001 | L04OP803M | L04OG853M | L04C853M | | 4905303 | 4940020 | | | L04BY403M | |
| 4mm | 4928002 | 4927002 | L04OP804 | L04OG854 | L04C854 | | 4905304 | 4940021 | | | L04BY404 | |
| 5mm | 4928003 | 4927003 | L04OP805M | 4940100 | L04C855M | | 4905305 | L04R9005M | L04BE955M | | L04BY405M | |
| 6mm | 4928004 | 4927004 | L04OP806M | L04OG856M | L04C856M | | 4905306 | | | | L04BY406M | |
| 6.3mm | 4928005 | 4927005 | | | | | | | | | | |
| 7mm | | | L04OP807M | L04OG857M | L04C857M | | 4905307 | L04R907 | | | | |
| 8mm | 4928006 | 4927006 | L04OP808M | L04OG858M | L04C858 | | 4905308 | 4940024 | L04BE958 | | L04BY408 | |
| 9.5mm | 4928007 | 4927007 | | | | | | | | | | |
| 10mm | 4928008 | 4927008 | L04OP8010M | L04OG8510M | L04C8510M | L04G8910MS | 4905310 | L04R9010M | L04BE9510M | | L04BY4010M | L04BY5510M |
| 12mm | | | | L04OG8512M | L04C8512M | L04G8912MS | 4905312 | L04R9012M | | | L04BY4012 | |
| 15mm | | | L04OP8015M | | | L04G8915MS | 4905315 | 4999315 | L04BE9515M | | L04BY4015 | L04BY5515 |
| 18mm | | | 4940013 | | | L04G8918MS | 4940091 | | | | L04BY4018 | L04BY5518 |
| 20mm | | | | | | L04G8920MS | 4940092 | | | | L04BY4020 | |

## Twisted O-Rings

| | Eagle Clear 85 |
|---|---|
| 3/16" x 6" | 5050003 |
| 3/16" x 10" | 5050011 |
| 3/16" x 10-1/2" | 5050015 |
| 3/16" x 11" | 5050012 |
| 3/16" x 11-1/2" | 5050911 |
| 3/16" x 12" | 5050016 |
| 3/16" x 12-1/2" | 5050005 |
| 3/16" x 12-3/4" | 5050002 |
| 3/16" x 12-7/8" | 5050006 |
| 3/16" x 13" | 5050007 |
| 3/16" x 13-1/4" | 5050017 |
| 3/16" x 13-1/2" | 5050009 |
| 3/16" x 13-3/4" | 5050014 |
| 3/16" x 14" | 5050008 |
| 3/16" x 14-1/2" | 5050010 |

50 pieces per box, packaged with hooks.

## Quick-Connect Profiles

| | Eagle Clear 85 QC | Eagle Red 85 QC | Eagle Yellow 85 QC |
|---|---|---|---|
| 3/16" | 4934009 | | 4934021 |
| 1/4" | 4934012 | | 4934022 |
| 5/16" | 4934015 | | 4934023 |
| 3/8" | 4934018 | | 4934025 |
| 1/2" | 4934024 | | 4934026 |
| 5/8" | 4934030 | | 4934020 |
| 5mm | L04QC855M | L04QR855M | |
| 6mm | L04QC856M | L04QR856M | |
| 8mm | L04QC858M | L04QR858M | |
| 10mm | | L04QR8510M | |
| 12mm | | L04QR8512M | |
| 13mm | L04QC8513 | L04QR8513M | |
| 16mm | L04QC8516M | L04QR8516M | |

Quick-Connect Belting packaged with a pack of connectors.

### QC Connectors

| | | |
|---|---|---|
| 3/16" and 5mm | 4935009 | 25/pack |
| 1/4" and 6–7mm | L04CON6S | 25/pack |
| 5/16" and 8mm | 4935015 | 25/pack |
| 3/8" and 10mm | L04CON10S | 20/pack |
| 1/2" and 12–13mm | L04CON13S | 20/pack |
| 5/8" and 16mm | 4935030 | 15/pack |

## Flat Profiles

| | Eagle Orange 85 |
|---|---|
| 0.055" x .375" | 1032121 |
| 0.062" x .5" | 1032126 |
| 0.062" x .75" w/ 0.156" radius guide | 1032210 |
| 0.062" x 1.5" | 1032148 |
| 0.062" x 1.75" | 1032155 |
| 0.062" x 2" | 1032160 |
| 0.062" x 3" | 1032170 |
| 0.125" x .625" | 1032133 |
| 0.125" x 1" | 1032143 |
| 0.250" x .625" | 1032134 |
| 0.078" x .75" | 1032136 |
| 0.090" x 1" | 1032142 |
| 0.090" x 1.25" | 1032146 |
| 0.090" x 1.5" | 1032151 |
| 0.090" x 2" | 1032163 |

All belting sold in 100'/30.5m lengths, except Can Cable (sold in 500' lengths).
May be subject to minimum order. Consult factory for availability.
Dimensions are for reference only.
For technical assistance and drive design help, contact Applications Engineering at 800-243-3374 or ae@fennerdrives.com.

# Part Number Listing

## V Profiles – Non-Reinforced

| | Eagle Blue 80 EC | Eagle Clear 80 EC | Eagle Opaque 80 | Eagle Orange 85 | Eagle Clear 85 | Eagle Ivory 85 | Eagle Green 89 | Eagle Red 90 | Eagle Beige 95 | Eagle Clear 95 | Eagle White 40D | Eagle Blue 55D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6mm x 4mm | 4928009 | 4927009 | L04OP806X4 | | L04C850604 | | | | | | | |
| 8mm x 5mm | 4928010 | 4927010 | 4940006 | | | | | 4940027 | | | L04BY400805 | |
| 10mm x 4mm T-Top | 4928011 | 4927011 | | | | | | | | | | |
| 3L | | | 4940007 | 1032030 | 4912063 | | | | | 4911063 | | |
| 3L T-Top | | | | 1032031 | 4912064 | | | | | 4911064 | | |
| 3L Crown Top | | | | 1032032 | | | | | | | | |
| 3L Twin | | | | 1032033 | 4912065 | | | | | 4911065 | | |
| Z/10 | | | 4940008 | 4940114 | 4940118 | L04I85Z | L04G89Z | 4940028 | | | L04BY40Z | L04BY55Z |
| A/13 | | | 4940009 | 1032038 | 4912066 | L04I85A | L04G89A | 4940029 | L04BE95A | 4911066 | L04BY40A | L04BY55A |
| A/13 Lo-Ridge-Top | | | | 1032039 | 4912067 | | | | | 4911067 | | |
| A/13 Ridge-Top | | | | L04OG85AXH | L04C85AXH | | L04G89AX | | | | | |
| A/13 Hi-Ridge-Top | | | | 1032040 | 4911102 | | | | | 4911101 | | |
| A Twin | | | | 1032041 | 4912068 | | | | | 4911068 | | |
| AA | | | | 1232550 | 4912062 | | | | | 4911062 | | |
| B/17 | | | 4940010 | 1032047 | 4912069 | L04I85B | L04G89B | 4940030 | L04BE95B | 4911069 | L04BY40B | L04BY55B |
| B/17 Ridge-Top | | | 4940097 | | | | L04G89BX | | | | | |
| B/17 Ribbed | | | | 1032046 | | | | | | | | |
| B/17 Wing-Top | | | | 1032048 | | | | | | | | |
| BB | | | | 1232600 | 4912070 | | | | | 4911070 | | |
| C/22 | | | 4940015 | 1032072 | 4912072 | L04I85C | L04G89C | 4999306 | L04BE95C | 4911072 | L04BY40C | L04BY55C |
| C/22 Ridge-Top 24.5mm | | | 4999557 | | | | 4999514 | | | | | |
| C/22 Ridge-Top 28.5mm | | | 4940099 | | | | L04G89CX | | | | | |
| C/22 Ribbed | | | | 1032054 | | | | | | | | |
| D/32 Ribbed | | | | 1032062 | 4908077 | | | | | 4911077 | | |
| E/42 Ribbed | | | | 1032070 | | | | | | | | |

## SGT V Profiles – Non-Reinforced

| | Eagle Ivory 85 SGT PU | Eagle Ivory 85 SGT PVC | Eagle Ivory 85 SGT TPE | Eagle Green 89 SGT PVC | Eagle Red 90 SGT PVC | Eagle White 40D SGT PVC |
|---|---|---|---|---|---|---|
| A/13 | 493030030M | L04I85ASG | 493120030M | L04G89ASG | L04R90ASG | L04BY40ASG |
| B/17 | 493040030M | L04I85BSG | 493130030M | L04G89BSG | L04R90BSG | L04BY40BSG |
| C/22 | 493050030M | L04I85CSG | 493140030M | L04G89CSG | L04R90CSG | L04BY40CSG |

## Co-Extruded V Profiles – Non-Reinforced

| | Eagle Red 85 CXF |
|---|---|
| A/13 | 4924320 |
| B/17 | 4924330 |
| C/22 | 4924345 |

All belting sold in 100'/30.5m lengths, except Can Cable (sold in 500' lengths).
May be subject to minimum order. Consult factory for availability.
Dimensions are for reference only.
For technical assistance and drive design help, contact Applications Engineering at 800-243-3374 or ae@fennerdrives.com.

# Part Number Listing

## Round Profiles – Reinforced

| | Eagle Opaque 80 R | Eagle Orange 85 R | Eagle Hyfen 85 R | Eagle Green 89 RT | Eagle Beige 95 R | Eagle Can Cable |
|---|---|---|---|---|---|---|
| 3/16" | | | 5218009 | | | |
| 1/4" | | 4940058 | 5218012 | | | |
| 5/16" | | 4940059 | 5218015 | | | |
| 3/8" | | 4940060 | 5218018 | | | |
| 1/2" | | 4940061 | 5218024 | | | |
| 9/16" | | 4940062 | 5218027 | | | |
| 5/8" | | 4940063 | 5218030 | | | |
| 3/4" | | 4940064 | 5218033 | | | |
| 5mm | | | | 4940056 | | |
| 6mm | | L04OG856MR | | 4940057 | | |
| 7mm | | | | 4940050 | | |
| 8mm | L04OP808MR | L04OG858R | | 4940051 | L04BE958R | |
| 10mm | L04OP8010MR | L04OG8510MR | | 4940052 | L04BE9510R | |
| 12mm | | L04OG8512R | | 4940053 | | |
| 15mm | L04OP8015MR | L04OG8515MR | | 4940054 | L04BE9515R | |
| 18mm | | | | 4940055 | | |
| 20mm | | L04OG8520R | | | | |
| 3/8" Natural 55D CC | | | | | | 4816018 |
| 3/8" Blue 55D CC | | | | | | 4816019 |
| 3/8" Green 63D CC | | | | | | 4817018 |
| 3/8" Natural 63D CC | | | | | | 4899006 |
| 3/8" Red 50D CC LCF | | | | | | 4816020 |
| 9.5mm Blue 55D Aramid CC | | | | | | 4899012 |

## V Profiles – Reinforced

| | Eagle Opaque 80 R | Eagle Orange 85 R | Eagle Hyfen 85 R | Eagle Ivory 85 R | Eagle Green 89 R | Eagle Beige 95 R | Eagle Hyfen 95 R |
|---|---|---|---|---|---|---|---|
| 3L | | | | | | 4940070 | |
| 3L Twin | | | 5299010 | | | | |
| Z/10 | | 4940065 | | L04I85ZR | | 4940074 | |
| A | | | | | | | 5260200 |
| A/13 | L04OP80AR | 4940066 | | L04I85AR | L04G89AR | 4940075 | |
| A Cogged | | | | | | | 5220000 |
| A/13 Cogged | | | | | | 4940071 | |
| A/13 Ridge-Top | L04OP80ARXH | | 5299007 | L04I85ARXH | L04G89ARXH | | |
| A Twin | | | 5299019 | | | | |
| B | | | | | | | 5260300 |
| B/17 | L04OP80BR | 4940067 | | L04I85BR | 4940127 | 4940076 | |
| B Cogged | | | | | | | 5230000 |
| B/17 Cogged | | | | | | 4940072 | |
| B/17 Ridge-Top | L04OP80BRXH | | 5299009 | L04I85BRXH | L04G89BRXH | | |
| C | | | | | | | 5260400 |
| C/22 | | 4940068 | | L04I85CR | L04G89CR | 4940077 | |
| C Cogged | | | | | | | 5240000 |
| C/22 Cogged | | | | | | 4940073 | |
| C/22 Ridge-Top 24.5mm | | | | 5299103 | 4999524 | | |
| C/22 Ridge-Top 28.5mm | | | | L04I85CRXH | L04G89CRXH | | |
| D | | | 5260500 | | | | |

## SGT V Profiles – Reinforced

| | Eagle Ivory 85 RSGT PU | Eagle Ivory 85 RSGT PVC | Eagle Ivory 85 RSGT TPE |
|---|---|---|---|
| A/13 | 493060030M | L04I85ARSG | 493150030M |
| B/17 | 493020030M | L04I85BRSG | 493160030M |
| C/22 | 493070030M | L04I85CRSG | 493170030M |

## Co-Extruded V Profiles – Reinforced

| | Eagle Hyfen 85 CXF | Eagle Hyfen 85 CXR |
|---|---|---|
| A | 5260520 | 5260525 |
| A Twin | 5260572 | 5260577 |
| B | 5260530 | 5260535 |
| C | 5260540 | 5260545 |
| D | 5260550 | 5260555 |

# Eagle Welding Kits

## Butt Welding Kit & Components – 115 V

| | |
|---|---|
| 5700200 | Butt Welding Kit 115 V (Large Clamp) |
| 5700231 | Mini Butt Welding Kit 115 V (Mini Clamp) |
| 5700201 | Butt Welding Clamp |
| 5700227 | Mini Clamp |
| 5700228 | Hot Knife 115 V with holder and 2" blade |
| 5700220 | Double Iron Hot Knife 115 V with holder and 3" blade |
| 5700202 | Hot Knife Holder |
| 5700233 | Hot Knife Blade – 2" |
| 5700218 | Hot Knife Blade – 3" (Use with 5700220) |
| 5700153 | Cutting Shears |
| 1448000 | Flash Cutter |
| 5700208 | Clamping Plate (2 pcs) |
| 5700209 | Flat/V-belt adapter Plate (2 pcs) |
| 5700212 | Black Knurled Knob (5 pcs) |
| 5700203 | Case |

## Butt Welding Kit & Components – 240 V

| | |
|---|---|
| L04FULLWELD240V | Butt Welding Kit 240 V (Large Clamp) |
| L04MINIWELD240V | Mini Butt Welding Kit 240 V (Mini Clamp) |
| 5700201 | Butt Welder Clamp |
| L04MCLAMP | Mini Clamp |
| L04HKNIFE240 | Hot Knife 240 V |
| L04SHEARS | Cutting Shears |
| L04FCUTTER | Flash Cutter |
| L04S | Hot Knife Blade – 2" |
| L04CASEBKST | Case (Large Clamp) |
| L04CASEBLM | Case (Mini Clamp) |

## Freestyle Welding Kit & Components

| | |
|---|---|
| 5700539 | Freestyle Welding Kit |
| 5700537 | Freestyle Welder |
| 5700366 | Freestyle Welder Blade Assembly |
| 5700367 | Freestyle Welder End Cap |
| 5700542 | Blade Replacement Tape 10/pk |
| 5700541 | Pack of 2 D cell NiMH batteries |
| 5700153 | Cutting Shears |
| 1448000 | Flash Cutter |

## Overlap Welding Kit & Components

| | |
|---|---|
| 5700160K | Overlap Welding Kit 115V |
| 5700161K | Overlap Welding Kit 240V |
| 5700152 | Flash Cutter |
| 5700164 | Case |
| 5700300 | Temperature Controller w/Control Box 115 V |
| 5700310 | Temperature Controller w/Control Box 240 V |
| 5700325 | Heating Tip (Z Block) |
| 5700330 | Thumb Nuts |
| 5700340 | Hold Down Pin |
| 5700350 | Thermocouple Wire |
| 5700355 | Thermocouple Connector |
| 5700360 | Heating Element, Power Cord and Plug 115 V |
| 5700361 | Heating Element, Power Cord and Plug 240 V |
| 5700351 | Plug Adapter – UK to EU |
| 5700380 | Spring |
| 5700390 | Heating Assembly Knob |
| 5700400 | 1/4" and 5/16" Die Set |
| 5700410 | 3/8" and 1/2" Die Set |
| 5700420 | 9/16", 5/8" and 16mm Die Set |
| 5700430 | 3/4" and 19mm Die |
| 5700600 | 5mm Die |
| 5700601 | 6mm Die |
| 5700602 | 7mm Die |
| 5700603 | 8mm Die |
| 5700604 | 9mm Die |
| 5700605 | 10mm Die |
| 5700606 | 12mm Die |
| 5700608 | 18mm Die |
| 5700620 | 20mm Die |
| 5700610 | Z/10 Die Set |
| 5700440 | A Hyfen Die Set |
| 5700611 | A/13 Die Set |
| 5700470 | A Ridge–Top Die Set |
| 5700453 | B Hyfen Die Set |
| 5700612 | B/17 Die Set |
| 5700490 | B Ridge-Top Die Set |
| 5700457 | C Hyfen Die Set |
| 5700613 | C/22 Die Set |
| 5700460 | D Hyfen Die Set |
| 5700480 | A Die Set for Hyfen CXF and CXR |
| 5700472 | B Die Set for Hyfen CXF and CXR |
| 5700476 | C Die Set for Hyfen CXF and CXR |
| 5700474 | D Die Set for Hyfen CXF and CXR |

Overlap Welder availability may be subject to minimum purchase of reinforced belting. Consult factory for details.

## Eagle Blue 80 EC
## Eagle Clear 80 EC

DESCRIPTION
Round, Non–Reinforced

HARDNESS
80A

FDA COMPLIANT MATERIALS
Yes

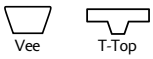
COEFFICIENT OF FRICTION
Stainless Steel .80
Steel .70
UHMW .55

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (in) | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3mm | | 3 | 0.83 | 21 | 0.4 | 1.7 | 0.6 | 2.5 | 0.8 | 3.5 | 1.0 | 4.3 | .005 | .008 |
| 4mm | | 4 | 1.10 | 28 | 0.6 | 2.8 | 0.9 | 4.2 | 1.3 | 5.6 | 1.5 | 6.7 | .009 | .014 |
| 5mm | | 5 | 1.38 | 35 | 0.9 | 4.2 | 1.4 | 6.3 | 1.9 | 8.4 | 2.4 | 10.6 | .015 | .022 |
| 6mm | | 6 | 1.65 | 42 | 1.3 | 5.9 | 2.1 | 9.1 | 2.8 | 12.3 | 3.4 | 15.2 | .021 | .032 |
| 6.3mm | 1/4 | 6.3 | 1.74 | 44 | 1.5 | 6.6 | 2.3 | 10.2 | 3.1 | 13.7 | 3.8 | 17.0 | .023 | .035 |
| 8mm | | 8 | 2.20 | 56 | 2.4 | 10.5 | 3.6 | 16.2 | 4.8 | 21.5 | 6.1 | 26.9 | .038 | .056 |
| 9.5mm | 3/8 | 9.5 | 2.62 | 67 | 3.4 | 15.0 | 5.2 | 23.2 | 7.0 | 31.0 | 8.7 | 38.7 | .053 | .079 |
| 10mm | | 10 | 2.76 | 70 | 3.7 | 16.4 | 5.8 | 25.6 | 7.7 | 34.1 | 9.6 | 42.6 | .059 | .088 |

## Eagle Blue 80 EC
## Eagle Clear 80 EC

DESCRIPTION
Trapezoidal,
Non–Reinforced




HARDNESS
80A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .80
Steel .70
UHMW .55

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6mm x 4mm | 6 x 4 | 1.10 | 28 | 0.8 | 3.7 | 1.5 | 6.7 | 2.1 | 9.4 | 2.7 | 12.1 | .015 | .023 |
| 8mm x 5mm | 8 x 5 | 1.38 | 35 | 1.3 | 5.7 | 2.4 | 10.5 | 3.3 | 14.6 | 4.2 | 18.9 | .024 | .035 |
| 10mm x 4mm T-Top | 10 x 4 | 1.10 | 28 | 1.0 | 4.6 | 1.9 | 8.5 | 2.7 | 11.8 | 3.4 | 15.3 | .019 | .028 |

*For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.*
** w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface.*
*Dimensions are for reference only.*

## Eagle Opaque 80

DESCRIPTION
Round, Non–Reinforced

HARDNESS
80A

FDA COMPLIANT MATERIALS
No

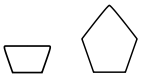
COEFFICIENT OF FRICTION
Stainless Steel .75
Steel .65
UHMW .50

TEMPERATURE RANGE
-22°F to +150°F
-30°C to +66°C

| Cross Section | Dimensions Ø (in) | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2mm | | 2 | .56 | 14 | 0.2 | 0.8 | 0.4 | 1.8 | 0.5 | 2.2 | 0.6 | 2.7 | .003 | .004 |
| 3mm | | 3 | .81 | 21 | 0.5 | 2.2 | 0.8 | 3.6 | 1.1 | 4.9 | 1.4 | 6.2 | .006 | .009 |
| 4mm | | 4 | 1.19 | 30 | 0.8 | 3.6 | 1.4 | 6.2 | 2.0 | 8.9 | 2.5 | 11.1 | .01 | .015 |
| 5mm | | 5 | 1.38 | 35 | 1.3 | 5.8 | 2.2 | 9.8 | 3.1 | 13.8 | 3.9 | 17.3 | .02 | .03 |
| 6mm | | 6 | 1.63 | 42 | 1.8 | 8.0 | 3.0 | 13.3 | 4.2 | 18.6 | 5.3 | 23.4 | .025 | .04 |
| 1/4" | 1/4 | 6.3 | 1.75 | 44 | 1.8 | 8.0 | 3.0 | 13.3 | 4.2 | 18.6 | 5.3 | 23.4 | .03 | .04 |
| 7mm | | 7 | 1.93 | 49 | 2.6 | 11.4 | 4.3 | 19.1 | 6.0 | 26.3 | 7.6 | 33.7 | .03 | .04 |
| 8mm | | 8 | 2.25 | 56 | 3.3 | 14.7 | 5.6 | 24.9 | 7.8 | 34.0 | 9.9 | 44.0 | .04 | .06 |
| 3/8" | 3/8 | 9.5 | 2.63 | 67 | 4.0 | 17.6 | 6.7 | 29.9 | 9.4 | 34.7 | 11.9 | 52.7 | .06 | .09 |
| 10mm | | 10 | 2.75 | 70 | 5.2 | 23.1 | 8.8 | 39.1 | 12.3 | 54.7 | 15.4 | 68.5 | .07 | .10 |
| 1/2" | 1/2 | 12.5 | 3.50 | 89 | 7.0 | 31.3 | 12.0 | 53.2 | 16.7 | 74.4 | 21.1 | 93.7 | .10 | .15 |
| 15mm | | 15 | 4.13 | 105 | 11.6 | 51.6 | 19.7 | 87.6 | 27.6 | 122.8 | 34.7 | 154.3 | .14 | .21 |
| 18mm | | 18 | 5.00 | 126 | 16.7 | 74.3 | 28.4 | 126.3 | 39.7 | 176.6 | 50.0 | 222.4 | .22 | .33 |

## Eagle Opaque 80

DESCRIPTION
Trapezoidal,
Non–Reinforced




HARDNESS
80A

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .75
Steel .65
UHMW .50

TEMPERATURE RANGE
-22°F to +150°F
-30°C to +66°C

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6mm x 4mm | | 6 x 4 | 1.10 | 28 | 0.8 | 3.6 | 1.6 | 7.1 | 2.6 | 12.7 | 3.6 | 17.1 | .02 | .03 |
| 8mm x 5mm | | 8 x 5 | 1.38 | 35 | 1.7 | 7.6 | 3.6 | 16.0 | 5.7 | 25.4 | 7.7 | 34.2 | .02 | .03 |
| 3L | 3/8 x 7/32 | | 1.50 | 39 | 2.3 | 10.2 | 4.7 | 20.9 | 7.5 | 33.4 | 10.2 | 45.4 | .03 | .05 |
| Z/10 | | 10 x 6.5 | 1.63 | 42 | 2.7 | 12.0 | 5.6 | 24.9 | 8.9 | 39.6 | 12.1 | 53.8 | .05 | .07 |
| A/13 | 1/2 x 5/16 | 13 x 8 | 2.25 | 56 | 4.2 | 18.7 | 8.8 | 39.1 | 14.0 | 62.3 | 19.0 | 84.5 | .07 | .10 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 3.00 | 76 | 7.3 | 32.5 | 15.2 | 67.6 | 24.2 | 107.6 | 32.8 | 145.9 | .11 | .16 |
| B/17 Ridge-Top | | 17 x 19.5 | 5.50 | 140 | 7.3 | 32.5 | 15.2 | 67.6 | 24.2 | 107.6 | 32.8 | 145.9 | .13 | .19 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 3.88 | 98 | 12.7 | 56.5 | 26.7 | 118.8 | 42.5 | 189.0 | 57.6 | 256.2 | .19 | .28 |
| C/22 Ridge-Top | | 22 x 24.5 | 7.75 | 196 | 12.7 | 56.5 | 26.7 | 118.8 | 42.5 | 189.0 | 57.6 | 256.2 | .28 | .41 |
| C/22 Ridge-Top | | 22 x 28.5 | 7.75 | 196 | 12.7 | 56.5 | 26.7 | 118.8 | 42.5 | 189.0 | 57.6 | 256.2 | .32 | .47 |

# Technical Data

## Eagle Orange 85
## Eagle Clear 85

DESCRIPTION
Round, Non–Reinforced

HARDNESS
85A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (in) | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2mm | | 2 | .63 | 16 | 0.2 | 0.9 | 0.3 | 1.3 | 0.4 | 1.8 | 0.5 | 2.2 | .003 | .004 |
| 3/32" | 3/32 | | .75 | 19 | 0.2 | 0.9 | 0.3 | 1.3 | 0.4 | 1.8 | 0.5 | 2.2 | .004 | .006 |
| 3mm | | 3 | .94 | 24 | 0.5 | 2.2 | 0.7 | 3.1 | 1.0 | 4.4 | 1.2 | 5.3 | .006 | .009 |
| 4mm | | 4 | 1.25 | 32 | 0.8 | 3.6 | 1.2 | 5.3 | 1.6 | 7.1 | 1.9 | 8.5 | .01 | .015 |
| 3/16" | 3/16 | | 1.50 | 38 | 1.1 | 4.9 | 1.7 | 7.6 | 2.2 | 9.8 | 2.7 | 12.0 | .01 | .015 |
| 5mm | | 5 | 1.56 | 40 | 1.2 | 5.3 | 1.8 | 8.0 | 2.4 | 10.7 | 3.0 | 13.3 | .02 | .03 |
| 6mm | | 6 | 1.88 | 48 | 1.7 | 7.6 | 2.6 | 11.6 | 3.5 | 15.6 | 4.3 | 19.1 | .025 | .04 |
| 1/4" | 1/4 | 6.3 | 2.00 | 51 | 1.9 | 8.5 | 2.9 | 12.9 | 3.9 | 17.3 | 4.8 | 21.4 | .03 | .04 |
| 7mm | | 7 | 2.20 | 56 | 2.4 | 10.4 | 3.6 | 16.1 | 4.8 | 21.4 | 6.0 | 26.5 | .03 | .04 |
| 5/16" | 5/16 | | 2.50 | 64 | 3.0 | 13.3 | 4.6 | 20.5 | 6.1 | 27.1 | 7.6 | 33.8 | .04 | .06 |
| 8mm | | 8 | 2.50 | 64 | 3.0 | 13.3 | 4.6 | 20.5 | 6.1 | 27.1 | 7.6 | 33.8 | .04 | .06 |
| 3/8" | 3/8 | 9.5 | 3.00 | 76 | 4.3 | 19.1 | 6.6 | 29.4 | 8.8 | 39.1 | 10.9 | 48.5 | .06 | .09 |
| 10mm | | 10 | 3.13 | 80 | 4.7 | 20.9 | 7.3 | 32.5 | 9.7 | 43.1 | 12.0 | 53.4 | .07 | .10 |
| 12mm | | 12 | 3.75 | 96 | 6.8 | 30.5 | 10.6 | 47.3 | 14.1 | 62.9 | 17.4 | 77.4 | .09 | .13 |
| 1/2" | 1/2 | 12.5 | 4.00 | 102 | 7.6 | 33.8 | 11.8 | 52.5 | 15.7 | 69.8 | 19.3 | 85.8 | .10 | .15 |
| 9/16" | 9/16 | | 4.50 | 114 | 9.7 | 43.1 | 14.9 | 66.3 | 19.9 | 88.5 | 24.5 | 109.0 | .13 | .19 |
| 5/8" | 5/8 | | 5.00 | 127 | 11.9 | 52.9 | 18.4 | 81.8 | 24.5 | 109.0 | 30.2 | 134.3 | .16 | .24 |
| 3/4" | 3/4 | | 6.00 | 152 | 17.7 | 78.7 | 26.5 | 117.9 | 35.3 | 157.0 | 43.5 | 193.5 | .23 | .34 |

## Eagle Orange 85
## Eagle Clear 85

DESCRIPTION
Trapezoidal,
Non-Reinforced


HARDNESS
85A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

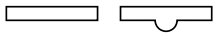
TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6mm x 4mm | | 6 x 4 | 1.25 | 32 | 0.9 | 4.0 | 1.6 | 7.1 | 2.2 | 9.8 | 2.8 | 12.5 | .02 | .03 |
| 3L | 3/8 x 7/32 | | 1.75 | 45 | 2.2 | 9.8 | 3.7 | 16.5 | 5.2 | 23.1 | 6.5 | 28.9 | .03 | .04 |
| 3L T-Top | 9/16 x 19/64 | | 2.38 | 60 | 3.2 | 14.2 | 5.5 | 24.5 | 7.7 | 34.2 | 9.7 | 43.1 | .05 | .07 |
| 3L Crown-Top | 9/16 x 1/4 | | 2.00 | 51 | 3.2 | 14.2 | 5.5 | 24.5 | 7.7 | 34.2 | 9.7 | 43.1 | .05 | .07 |
| 3L Twin | 15/16 x 17/64 | | 2.13 | 54 | 6.1 | 27.1 | 10.3 | 45.8 | 14.5 | 64.5 | 18.4 | 81.8 | .10 | .15 |
| Z/10 | | 10 x 6.5 | 1.88 | 48 | 2.4 | 10.7 | 4.1 | 18.2 | 5.8 | 25.8 | 7.3 | 32.5 | .05 | .07 |
| A/13 | 1/2 x 5/16 | 13 x 8 | 2.50 | 64 | 4.0 | 17.8 | 6.8 | 30.2 | 9.6 | 42.7 | 12.2 | 54.3 | .07 | .10 |
| A/13 Lo-Ridge-Top | 1/2 x 7/16 | | 2.50 | 64 | 4.0 | 17.8 | 6.8 | 30.2 | 9.6 | 42.7 | 12.2 | 54.3 | .07 | .10 |
| A/13 Ridge-Top | | 13 x 16 | 5.00 | 127 | 4.0 | 17.8 | 6.8 | 30.2 | 9.6 | 42.7 | 12.2 | 54.3 | .09 | .13 |
| A/13 Hi-Ridge-Top | 1/2 x 5/8 | | 5.00 | 127 | 6.7 | 29.8 | 11.3 | 50.3 | 15.9 | 70.7 | 20.1 | 89.4 | .09 | .13 |
| A Twin | 1 3/16 x 5/16 | | 2.50 | 64 | 8.2 | 36.5 | 14.0 | 62.3 | 19.6 | 87.2 | 24.8 | 110.3 | .15 | .22 |
| AA | 1/2 x 13/32 | | 3.25 | 83 | 5.8 | 25.8 | 9.8 | 43.6 | 13.7 | 60.9 | 17.4 | 77.4 | .09 | .13 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 3.25 | 83 | 7.0 | 31.1 | 11.8 | 52.5 | 16.6 | 73.8 | 21.0 | 93.4 | .11 | .16 |
| B/17 Ribbed | 11/16 x 13/32 | | 3.25 | 83 | 7.0 | 31.1 | 11.8 | 52.5 | 16.6 | 73.8 | 21.0 | 93.4 | .11 | .16 |
| B/17 Wing-Top | 11/16 x 5/8 | | 3.25 | 83 | 7.0 | 31.1 | 11.8 | 52.5 | 16.6 | 73.8 | 21.0 | 93.4 | .11 | .16 |
| BB | 11/16 x 9/16 | | 4.25 | 108 | 8.8 | 39.1 | 14.9 | 66.3 | 20.9 | 93.0 | 26.5 | 117.9 | .16 | .24 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 4.50 | 114 | 12.1 | 53.8 | 20.6 | 91.6 | 28.9 | 128.5 | 36.6 | 162.8 | .19 | .28 |
| C/22 Ribbed | 29/32 x 17/32 | | 4.50 | 114 | 12.1 | 53.8 | 20.6 | 91.6 | 28.9 | 128.5 | 36.6 | 162.8 | .19 | .28 |
| D/32 Ribbed | 1 5/16 x 3/4 | | 7.00 | 178 | 25.2 | 112.1 | 42.7 | 189.9 | 59.9 | 266.4 | 75.8 | 337.2 | .38 | .57 |
| E/42 Ribbed | 1 11/16 x 1 3/32 | | 15.00 | 381 | 47.8 | 212.6 | 81.1 | 360.7 | 113.9 | 505.9 | 144.0 | 640.5 | .71 | 1.06 |

*For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.*
** w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface.*
*Dimensions are for reference only.*

## Eagle Orange 85

DESCRIPTION
Flat, Non–Reinforced



HARDNESS
85A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| .055"x.375" | 3/8 x 7/128 | .38 | 10 | 0.9 | 3.9 | 1.3 | 5.8 | 1.7 | 7.6 | 2.1 | 9.3 | .01 | .015 |
| .062"x.500" | 1/2 x 1/16 | .50 | 13 | 1.3 | 5.9 | 2.0 | 8.8 | 2.6 | 11.5 | 3.1 | 13.9 | .02 | .03 |
| .062"x.750" ** | 3/4 x 1/16 | 1.00 | 25 | 2.0 | 8.8 | 3.0 | 13.2 | 3.9 | 17.2 | 4.7 | 20.9 | .03 | .04 |
| .062"x1.50" | 1 1/2 x 1/16 | .50 | 13 | 4.0 | 17.6 | 5.9 | 26.4 | 7.8 | 34.5 | 9.4 | 41.8 | .05 | .07 |
| .062"x1.75" | 1 3/4 x 1/16 | .50 | 13 | 4.6 | 20.5 | 6.9 | 30.8 | 9.0 | 40.2 | 11.0 | 48.8 | .06 | .09 |
| .062"x2.00" | 2 x 1/16 | .50 | 13 | 5.3 | 23.5 | 7.9 | 35.2 | 10.3 | 46.0 | 12.5 | 55.8 | .07 | .10 |
| .062"x3.00" | 3 x 1/16 | .50 | 13 | 7.9 | 35.2 | 11.9 | 52.7 | 15.5 | 68.9 | 18.8 | 83.7 | .10 | .15 |
| .125"x.625" | 5/8 x 1/8 | 1.00 | 25 | 3.3 | 14.8 | 5.0 | 22.2 | 6.5 | 29.0 | 7.9 | 35.1 | .04 | .06 |
| .125"x1.00" | 1 x 1/8 | 1.00 | 25 | 5.3 | 23.6 | 8.0 | 35.4 | 10.4 | 46.3 | 12.6 | 56.2 | .07 | .10 |
| .250"x.625" | 5/8 x 1/4 | 2.00 | 51 | 6.6 | 29.6 | 10.0 | 44.3 | 13.0 | 57.9 | 15.8 | 70.3 | .08 | .12 |
| .078"x.750" | 3/4 x 5/64 | .63 | 16 | 2.5 | 11.1 | 3.7 | 16.6 | 4.9 | 21.7 | 5.9 | 26.3 | .03 | .04 |
| .090"x1.00" | 1 x 3/32 | .75 | 19 | 3.8 | 17.0 | 5.7 | 25.5 | 7.5 | 33.4 | 9.1 | 40.5 | .05 | .07 |
| .090"x1.25" | 1 1/4 x 3/32 | .75 | 19 | 4.8 | 21.3 | 7.2 | 31.9 | 9.4 | 41.7 | 11.4 | 50.6 | .06 | .09 |
| .090"x1.50" | 1 1/2 x 3/32 | .75 | 19 | 5.7 | 25.5 | 8.6 | 38.3 | 11.3 | 50.0 | 13.7 | 60.7 | .07 | .10 |
| .090"x2.00" | 2 x 3/32 | .75 | 19 | 7.7 | 34.1 | 11.5 | 51.0 | 15.0 | 66.7 | 18.2 | 81.0 | .09 | .13 |

**belt has .156" radius guide.

## Eagle Red 85 CXF

DESCRIPTION
Trapezoidal, Non–Reinforced
with Co-Extruded Flat Top


*nominal 2.5mm*

*Add 2.5mm nominal to listed height for total belt height.*

HARDNESS
85A Base, 60A Top

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A/13 | 1/2 x 5/16 | 13 x 8 | 3.00 | 76 | 4.7 | 20.9 | 7.4 | 32.9 | 10.1 | 44.9 | 12.5 | 55.6 | .07 | .10 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 4.00 | 102 | 8.0 | 35.6 | 12.6 | 56.0 | 17.1 | 76.1 | 21.4 | 95.2 | .11 | .16 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 5.00 | 127 | 14.0 | 62.3 | 22.1 | 98.3 | 30.0 | 133.4 | 37.4 | 166.4 | .19 | .28 |

## Eagle Clear 85 QC
## Eagle Red 85 QC
## Eagle Yellow 85 QC

DESCRIPTION
Round, Hollow,
Non-Reinforced

HARDNESS
85A

FDA COMPLIANT MATERIALS
All except Red

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

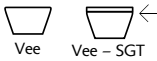
| Cross Section | Dimensions O.D. x I.D.† (inches or mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/16" | .1875" x .080" | 2.00 | 51 | 0.5 | 2.2 | 0.7 | 3.1 | 0.9 | 4.0 | 1.1 | 4.9 | .01 | .015 |
| 5mm | 5mm x 2mm | 2.00 | 51 | 0.5 | 2.2 | 0.7 | 3.1 | 0.9 | 4.0 | 1.1 | 4.9 | .01 | .015 |
| 6mm | 6mm x 2.5mm | 2.50 | 64 | 0.8 | 3.6 | 1.3 | 5.8 | 1.7 | 7.6 | 2.1 | 9.3 | .02 | .03 |
| 1/4" | .25" x .098" | 2.50 | 64 | 0.8 | 3.6 | 1.3 | 5.8 | 1.7 | 7.6 | 2.1 | 9.3 | .02 | .03 |
| 5/16" | .3125" x .126" | 3.00 | 76 | 1.3 | 5.8 | 2.0 | 8.9 | 2.7 | 12.0 | 3.3 | 14.7 | .03 | .04 |
| 8mm | 8mm x 3.2mm | 3.00 | 76 | 1.3 | 5.8 | 2.0 | 8.9 | 2.7 | 12.0 | 3.3 | 14.7 | .03 | .04 |
| 3/8" | .375" x .152" | 3.50 | 89 | 1.8 | 8.0 | 2.9 | 12.9 | 3.8 | 16.9 | 4.7 | 20.9 | .05 | .07 |
| 10mm | 10mm x 3.8mm | 3.50 | 89 | 1.8 | 8.0 | 2.9 | 12.9 | 3.8 | 16.9 | 4.7 | 20.9 | .05 | .07 |
| 12mm | 12mm x 5.2mm | 3.75 | 95 | 3.3 | 14.7 | 5.1 | 22.7 | 6.8 | 30.2 | 8.4 | 37.4 | .09 | .13 |
| 1/2" | .500" x .214" | 4.50 | 114 | 3.3 | 14.7 | 5.1 | 22.7 | 6.8 | 30.2 | 8.4 | 37.4 | .09 | .13 |
| 13mm | 13mm x 5.2mm | 4.50 | 114 | 3.3 | 14.7 | 5.1 | 22.7 | 6.8 | 30.2 | 8.4 | 37.4 | .09 | .13 |
| 5/8" | .625" x .273" | 5.50 | 140 | 5.0 | 22.2 | 7.7 | 34.2 | 10.3 | 45.8 | 18.6 | 82.7 | .13 | .19 |
| 16mm | 16mm x 6.8mm | 5.50 | 140 | 5.0 | 22.2 | 7.7 | 34.2 | 10.3 | 45.8 | 18.6 | 82.7 | .13 | .19 |

† O.D. is the outer diameter of the belt. I.D. is the inner diameter of the belt.

# Technical Data

## Eagle Ivory 85
## Eagle Ivory 85 SGT

DESCRIPTION
Trapezoidal, Non–Reinforced
SGT with Integrally Bonded Top




*Add 5mm nominal to listed height for total belt height.*

HARDNESS
85A; SGT with 50A PVC Top, 55A TPE Top or 70A PU Top

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | (mm) | Minimum Pulley Ø (in) (Ivory 85) | (SGT) | Minimum Pulley Ø (mm) (Ivory 85) | (SGT) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) (Ivory 85) | (SGT) | Weight per metre (kg) (Ivory 85) | (SGT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Z/10 | | 10 x 6.5 | 2.00 | – | 52 | – | 7.1 | 31.7 | 10.9 | 48.4 | 14.3 | 63.7 | 17.3 | 77.0 | .05 | – | .07 | – |
| A/13 | 1/2 x 5/16 | 13 x 8 | 2.50 | 3.00 | 64 | 76 | 11.4 | 50.7 | 17.4 | 77.4 | 22.9 | 101.9 | 27.7 | 123.2 | .07 | .08 | .10 | .12 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 3.60 | 4.10 | 92 | 104 | 20.2 | 89.8 | 30.9 | 137.4 | 40.6 | 180.6 | 49.1 | 218.4 | .11 | .12 | .16 | .18 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 4.50 | 5.00 | 116 | 127 | 33.5 | 149.0 | 51.1 | 227.3 | 67.1 | 298.5 | 81.3 | 361.6 | .19 | .20 | .28 | .30 |

## Eagle Green 89
## Eagle Green 89 T

DESCRIPTION
Round, Smooth or Textured, Non–Reinforced

HARDNESS
89A

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .65
Steel .55
UHMW .40

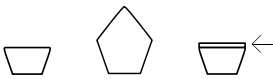
COEFFICIENT OF FRICTION (Textured)
Stainless Steel .50
Steel .40
UHMW .30

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2mm | 2 | .75 | 19 | 0.2 | 0.9 | 0.4 | 1.8 | 0.5 | 2.2 | 0.7 | 3.1 | .003 | .004 |
| 3mm | 3 | 1.00 | 27 | 0.6 | 2.7 | 0.9 | 4.0 | 1.2 | 5.3 | 1.5 | 6.7 | .006 | .009 |
| 4mm | 4 | 1.44 | 36 | 1.0 | 4.4 | 1.6 | 7.1 | 2.1 | 9.3 | 2.6 | 11.6 | .01 | .015 |
| 5mm | 5 | 1.75 | 45 | 1.5 | 6.7 | 2.4 | 10.7 | 3.3 | 14.7 | 4.1 | 18.2 | .02 | .03 |
| 6mm | 6 | 2.13 | 54 | 2.2 | 9.8 | 3.5 | 15.6 | 4.7 | 20.9 | 5.9 | 26.2 | .025 | .04 |
| 7mm | 7 | 2.50 | 63 | 3.0 | 13.3 | 4.7 | 20.9 | 6.4 | 28.5 | 8.0 | 35.6 | .03 | .04 |
| 8mm | 8 | 2.83 | 72 | 3.9 | 17.3 | 6.2 | 27.6 | 8.4 | 37.4 | 10.4 | 46.3 | .04 | .06 |
| 10mm | 10 | 3.50 | 90 | 6.1 | 27.1 | 9.7 | 43.1 | 13.1 | 58.3 | 16.3 | 72.5 | .07 | .10 |
| 12mm | 12 | 4.25 | 108 | 8.7 | 38.7 | 13.9 | 61.8 | 18.9 | 84.1 | 23.5 | 104.5 | .09 | .13 |
| 15mm | 15 | 5.25 | 135 | 13.6 | 60.5 | 21.7 | 96.5 | 29.6 | 131.7 | 36.6 | 162.8 | .14 | .21 |
| 18mm | 18 | 6.38 | 162 | 18.8 | 83.6 | 30.9 | 137.4 | 42.5 | 189.0 | 53.0 | 235.7 | .22 | .33 |
| 20mm | 20 | 7.00 | 180 | 23.2 | 103.2 | 38.2 | 169.9 | 52.4 | 233.1 | 65.5 | 291.3 | .23 | .34 |

## Eagle Green 89
## Eagle Green 89 SGT

DESCRIPTION
Trapezoidal, Non–Reinforced
SGT With Integrally Bonded Top




***Add 5mm nominal to listed height for total belt height.***

HARDNESS
89A; SGT with 50A PVC Top

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .65
Steel .55
UHMW .40

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | (mm) | Minimum Pulley Ø (in) (Green 89) | (SGT) | Minimum Pulley Ø (mm) (Green 89) | (SGT) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) (Green 89) | (SGT) | Weight per metre (kg) (Green 89) | (SGT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Z/10 | | 10 x 6.5 | 2.30 | – | 59 | – | 11.9 | 52.9 | 18.2 | 80.9 | 23.8 | 105.9 | 28.7 | 127.7 | .05 | – | .07 | – |
| A/13 | 1/2 x 5/16 | 13 x 8 | 2.80 | 3.30 | 72 | 84 | 20.5 | 91.2 | 31.3 | 139.2 | 41.0 | 182.4 | 49.5 | 220.2 | .07 | .08 | .10 | .12 |
| A/13 Ridge-Top | | 13 x 16 | 5.70 | – | 144 | – | 20.5 | 91.2 | 31.3 | 139.2 | 41.0 | 182.4 | 49.5 | 220.2 | .09 | – | .13 | – |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 4.10 | 4.60 | 104 | 117 | 36.4 | 161.9 | 55.6 | 247.3 | 72.7 | 323.4 | 87.7 | 390.1 | .11 | .12 | .16 | .18 |
| B/17 Ridge-Top | | 17 x 19.5 | 7.00 | – | 180 | – | 36.4 | 161.9 | 55.6 | 247.3 | 72.7 | 323.4 | 87.7 | 390.1 | .13 | – | .19 | – |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 5.10 | 5.60 | 130 | 142 | 61.7 | 274.4 | 94.3 | 419.4 | 123.4 | 548.9 | 148.8 | 661.9 | .19 | .20 | .28 | .30 |
| C/22 Ridge-Top | | 22 x 24.5 | 8.70 | – | 220 | – | 61.7 | 274.4 | 94.3 | 419.4 | 123.4 | 548.9 | 148.8 | 661.9 | .28 | – | .41 | – |
| C/22 Ridge-Top | | 22 x 28.5 | 8.70 | – | 220 | – | 61.7 | 274.4 | 94.3 | 419.4 | 123.4 | 548.9 | 148.8 | 661.9 | .32 | – | .47 | – |

*For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.*
** w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface.*
*Dimensions are for reference only.*

## Eagle Red 90

DESCRIPTION
Round, Non–Reinforced

HARDNESS
90A

FDA COMPLIANT MATERIALS
No

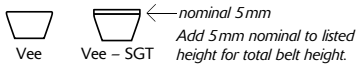
COEFFICIENT OF FRICTION
Stainless Steel .60
Steel .50
UHMW .38

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (in) | (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2mm | | 2 | .75 | 20 | 1.1 | 4.7 | 1.5 | 6.7 | 1.9 | 8.5 | 2.2 | 9.9 | .003 | .004 |
| 3mm | | 3 | 1.19 | 30 | 2.4 | 10.5 | 3.4 | 15.2 | 4.3 | 19.1 | 5.0 | 22.3 | .006 | .009 |
| 4mm | | 4 | 1.56 | 40 | 4.2 | 18.7 | 6.1 | 26.9 | 7.6 | 33.9 | 8.9 | 39.7 | .01 | .015 |
| 5mm | | 5 | 1.88 | 47 | 6.0 | 26.5 | 8.6 | 38.2 | 10.8 | 48.1 | 12.6 | 56.2 | .01 | .015 |
| 3/16" | 3/16 | | 1.88 | 47 | 6.0 | 26.5 | 8.6 | 38.2 | 10.8 | 48.1 | 12.6 | 56.2 | .01 | .015 |
| 1/4" | 1/4 | 6.3 | 2.75 | 70 | 10.6 | 47.1 | 15.3 | 67.9 | 19.2 | 85.4 | 22.5 | 100.0 | .03 | .04 |
| 7mm | | 7 | 2.75 | 70 | 13.7 | 61.0 | 19.8 | 87.8 | 24.9 | 110.5 | 29.1 | 129.4 | .03 | .04 |
| 8mm | | 8 | 3.13 | 80 | 16.8 | 74.8 | 24.2 | 107.7 | 30.5 | 135.6 | 35.7 | 158.7 | .04 | .06 |
| 3/8" | 3/8 | 9.5 | 3.75 | 95 | 23.8 | 106.0 | 34.3 | 152.7 | 43.2 | 192.2 | 50.6 | 224.9 | .06 | .09 |
| 10mm | | 10 | 3.94 | 100 | 28.9 | 123.1 | 39.9 | 177.4 | 50.2 | 223.3 | 58.8 | 261.3 | .07 | .10 |
| 12mm | | 12 | 4.72 | 120 | 37.8 | 168.3 | 54.5 | 242.5 | 68.6 | 305.2 | 80.3 | 357.2 | .09 | .14 |
| 1/2" | 1/2 | 12.5 | 5.00 | 127 | 42.4 | 188.5 | 61.0 | 271.5 | 76.8 | 341.7 | 89.9 | 399.9 | .10 | .15 |
| 9/16" | 9/16 | | 5.63 | 143 | 50.8 | 225.7 | 73.1 | 352.2 | 92.0 | 409.2 | 107.7 | 478.9 | .13 | .19 |
| 15mm | | 15 | 5.90 | 150 | 59.1 | 262.9 | 85.2 | 378.8 | 107.2 | 476.7 | 125.4 | 557.8 | .14 | .21 |

## Eagle Red 90
## Eagle Red 90 SGT

DESCRIPTION
Trapezoidal, Non–Reinforced;
SGT with Integrally Bonded Top




HARDNESS
90A; SGT with 50A PVC Top

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .60
Steel .50
UHMW .38

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | (mm) | Minimum Pulley Ø (in) (Red 90) | (SGT) | Minimum Pulley Ø (mm) (Red 90) | (SGT) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) (Red 90) | (SGT) | Weight per metre (kg) (Red 90) | (SGT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8mm x 5mm | | 8 x 5 | 2.00 | – | 50 | – | 9.5 | 42.1 | 15.0 | 66.8 | 19.9 | 88.7 | 24.0 | 106.9 | .02 | – | .03 | – |
| Z/10 | | 10 x 6.5 | 2.50 | – | 65 | – | 14.8 | 65.8 | 23.4 | 104.3 | 31.1 | 138.5 | 37.5 | 167.0 | .05 | – | .07 | – |
| A/13 | 1/2 x 5/16 | 13 x 8 | 3.13 | 4.13 | 80 | 105 | 24.1 | 107.0 | 38.1 | 169.5 | 50.6 | 225.3 | 61.0 | 271.5 | .07 | .08 | .10 | .12 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 4.50 | 5.50 | 115 | 140 | 43.9 | 195.2 | 69.5 | 309.3 | 92.4 | 411.0 | 111.3 | 495.3 | .11 | .12 | .16 | .18 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 5.75 | 6.75 | 145 | 172 | 72.2 | 321.2 | 114.4 | 508.9 | 152.0 | 676.2 | 183.2 | 814.9 | .19 | .20 | .28 | .30 |

## Eagle Beige 95

DESCRIPTION
Round, Non–Reinforced

HARDNESS
95A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5mm | 5 | 2.00 | 50 | 5.3 | 23.6 | 7.5 | 33.4 | 9.4 | 41.8 | 11.0 | 48.8 | .02 | .03 |
| 8mm | 8 | 3.10 | 80 | 13.6 | 60.5 | 19.2 | 85.6 | 24.0 | 106.9 | 28.1 | 125.1 | .04 | .06 |
| 10mm | 10 | 3.90 | 100 | 21.2 | 94.5 | 30.1 | 133.8 | 37.6 | 167.1 | 43.9 | 195.4 | .07 | .10 |
| 15mm | 15 | 5.90 | 150 | 47.8 | 212.5 | 67.7 | 301.0 | 84.5 | 375.9 | 98.8 | 439.6 | .14 | .21 |

# Technical Data

## Eagle Beige 95

DESCRIPTION
Trapezoidal,
Non–Reinforced


Vee

HARDNESS
95A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A/13 | 1/2 x 5/16 | 13 x 8 | 3.10 | 80 | 16.8 | 74.7 | 25.2 | 112.1 | 32.5 | 144.6 | 38.9 | 173.0 | .07 | .10 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 4.50 | 115 | 29.9 | 133.0 | 44.6 | 197.9 | 57.7 | 256.6 | 69.1 | 307.4 | .11 | .16 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 5.70 | 145 | 49.4 | 219.7 | 73.9 | 328.7 | 95.4 | 424.3 | 114.3 | 508.4 | .19 | .28 |

## Eagle Clear 95

DESCRIPTION
Round, Non–Reinforced

HARDNESS
95A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (in) | (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/32" | 3/32 | | 1.00 | 25 | 0.7 | 3.1 | 1.2 | 5.3 | 1.5 | 6.7 | 1.9 | 5.3 | .004 | .006 |
| 1/8" | 1/8 | | 1.25 | 32 | 0.9 | 4.0 | 1.4 | 6.2 | 1.7 | 7.6 | 2.1 | 6.2 | .01 | .015 |
| 3/16" | 3/16 | | 1.88 | 48 | 2.0 | 8.9 | 3.0 | 13.3 | 3.9 | 17.3 | 4.6 | 13.3 | .01 | .015 |
| 1/4" | 1/4 | 6.3 | 2.50 | 64 | 3.6 | 16.0 | 5.4 | 24.0 | 6.9 | 30.7 | 8.2 | 24.0 | .03 | .04 |
| 5/16" | 5/16 | | 3.13 | 79 | 5.7 | 25.4 | 8.4 | 37.4 | 10.8 | 48.0 | 12.9 | 37.4 | .04 | .06 |
| 3/8" | 3/8 | 9.5 | 3.75 | 95 | 8.2 | 36.5 | 12.1 | 53.8 | 15.6 | 69.4 | 18.5 | 53.8 | .06 | .09 |
| 1/2" | 1/2 | 12.5 | 5.00 | 127 | 14.5 | 64.5 | 21.6 | 96.1 | 27.7 | 123.2 | 32.9 | 96.1 | .10 | .15 |
| 9/16" | 9/16 | | 5.63 | 143 | 18.4 | 81.8 | 27.3 | 121.4 | 35.0 | 155.7 | 41.7 | 121.4 | .13 | .19 |
| 5/8" | 5/8 | | 6.25 | 159 | 22.7 | 101.0 | 33.7 | 149.9 | 43.3 | 192.6 | 51.4 | 149.9 | .16 | .24 |
| 3/4" | 3/4 | | 7.50 | 190 | 32.7 | 145.4 | 48.5 | 215.7 | 62.3 | 277.1 | 74.1 | 215.7 | .23 | .34 |

## Eagle Clear 95

DESCRIPTION
Trapezoidal,
Non–Reinforced


Vee T-Top Twin Lo-Ridge-Top Hi-Ridge-Top AA / BB Ribbed

HARDNESS
95A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 4% (lbs) | (N) | 6% (lbs) | (N) | 8% (lbs) | (N) | 10% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3L | 3/8 x 7/32 | | 2.19 | 56 | 4.1 | 18.2 | 6.6 | 29.4 | 8.9 | 39.6 | 10.8 | 48.0 | .03 | .04 |
| 3L T-Top | 9/16 x 19/64 | | 2.50 | 64 | 6.1 | 27.1 | 9.9 | 44.0 | 13.3 | 59.2 | 16.2 | 72.1 | .05 | .07 |
| 3L Twin | 15/16 x 17/64 | | 2.50 | 64 | 11.4 | 50.7 | 18.6 | 82.7 | 25.0 | 111.2 | 30.5 | 135.7 | .10 | .15 |
| A/13 | 1/2 x 5/16 | 13 x 8 | 3.13 | 79 | 7.6 | 33.8 | 12.3 | 54.7 | 16.6 | 73.8 | 20.2 | 89.8 | .07 | .10 |
| A/13 Lo-Ridge-Top | 1/2 x 7/16 | | 3.13 | 79 | 7.6 | 33.8 | 12.3 | 54.7 | 16.6 | 73.8 | 20.2 | 89.8 | .07 | .10 |
| A/13 Hi-Ridge-Top | 1/2 x 5/8 | | 6.00 | 152 | 12.5 | 55.6 | 20.3 | 90.3 | 27.4 | 121.9 | 33.4 | 148.6 | .09 | .13 |
| A Twin | 1 3/16 x 5/16 | | 3.13 | 79 | 15.4 | 68.5 | 25.1 | 111.6 | 33.8 | 150.3 | 41.2 | 183.3 | .15 | .22 |
| AA | 1/2 x 13/32 | | 4.13 | 105 | 10.8 | 48.0 | 17.6 | 78.3 | 23.7 | 105.4 | 28.8 | 128.1 | .09 | .13 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 4.13 | 105 | 13.1 | 58.3 | 21.3 | 94.7 | 28.6 | 127.2 | 34.8 | 154.8 | .11 | .16 |
| BB | 11/16 x 9/16 | | 5.63 | 143 | 16.5 | 73.4 | 26.8 | 119.2 | 36.1 | 160.6 | 44.0 | 195.7 | .16 | .24 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 5.38 | 136 | 22.7 | 101.0 | 37.0 | 164.6 | 49.8 | 221.5 | 60.7 | 270.0 | .19 | .28 |
| D/32 Ribbed | 1 5/16 x 3/4 | | 8.50 | 216 | 47.1 | 209.5 | 76.8 | 341.6 | 103.3 | 459.5 | 125.9 | 560.0 | .38 | .57 |

*For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.*
** w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface.*
*Dimensions are for reference only.*

## Eagle White 40D

DESCRIPTION
Round, Non–Reinforced

MATERIAL
Polyester

HARDNESS
40D

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

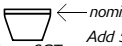
TEMPERATURE RANGE
-22ºF to +176ºF
-30ºC to +80ºC

| Cross Section | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3mm | 3 | 1.18 | 30 | 1.9 | 8.3 | 2.9 | 12.8 | 3.8 | 16.8 | 4.5 | 20.2 | .006 | .009 |
| 4mm | 4 | 1.57 | 40 | 3.3 | 14.8 | 5.1 | 22.8 | 6.7 | 29.8 | 8.1 | 35.9 | .01 | .015 |
| 5mm | 5 | 2.00 | 50 | 5.2 | 23.1 | 8.0 | 35.6 | 10.5 | 46.7 | 12.6 | 56.0 | .02 | .03 |
| 6mm | 6 | 2.38 | 60 | 7.5 | 33.7 | 11.5 | 51.2 | 15.1 | 67.2 | 18.2 | 80.9 | .025 | .04 |
| 8mm | 8 | 3.10 | 80 | 13.3 | 59.2 | 20.5 | 91.2 | 26.8 | 119.2 | 32.3 | 143.7 | .04 | .06 |
| 10mm | 10 | 4.00 | 100 | 20.8 | 92.5 | 32.0 | 142.2 | 41.9 | 186.5 | 50.5 | 224.6 | .07 | .10 |
| 12mm | 12 | 4.75 | 120 | 29.9 | 133.2 | 46.0 | 204.7 | 60.4 | 268.5 | 72.7 | 323.5 | .09 | .13 |
| 15mm | 15 | 5.90 | 150 | 46.8 | 208.1 | 71.9 | 319.9 | 94.3 | 419.6 | 113.6 | 505.4 | .14 | .21 |
| 18mm | 18 | 7.10 | 180 | 67.4 | 299.7 | 103.6 | 460.6 | 135.8 | 604.2 | 163.6 | 727.8 | .22 | .33 |
| 20mm | 20 | 7.88 | 200 | 83.2 | 370.0 | 127.9 | 568.7 | 167.7 | 745.9 | 202.0 | 898.5 | .23 | .34 |

## Eagle White 40D
## Eagle White 40D SGT

DESCRIPTION
Trapezoidal, Non–Reinforced;
SGT with Integrally Bonded Top


Vee



Vee – SGT

*Add 5mm nominal to listed height for total belt height.*

MATERIAL/HARDNESS
40D Polyester;
SGT with 50A PVC Top

FDA COMPLIANT MATERIALS
White 40D Only;
Not SGT

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +176ºF
-30ºC to +80ºC

TEMPERATURE RANGE (SGT)
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) (White 40D) | Minimum Pulley Ø (in) (SGT) | Minimum Pulley Ø (mm) (White 40D) | Minimum Pulley Ø (mm) (SGT) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) (White 40D) | Weight per foot (lbs) (SGT) | Weight per metre (kg) (White 40D) | Weight per metre (kg) (SGT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8mmx5mm | | 8 x 5 | 2.60 | — | 65 | — | 6.3 | 28.0 | 10.8 | 48.0 | 14.8 | 65.8 | 18.3 | 81.4 | .02 | — | .03 | — |
| Z/10 | | 10 x 6.5 | 3.10 | — | 80 | — | 9.4 | 41.8 | 16.1 | 71.6 | 22.2 | 98.7 | 27.4 | 121.9 | .05 | — | .07 | — |
| A/13 | 1/2 x 5/16 | 13 x 8 | 4.00 | 4.50 | 102 | 114 | 15.7 | 69.8 | 26.9 | 120.0 | 37.0 | 164.6 | 45.8 | 203.7 | .13 | .08 | .19 | .12 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 5.50 | 6.50 | 140 | 165 | 27.1 | 120.5 | 46.4 | 206.4 | 64.0 | 284.7 | 79.1 | 351.8 | .19 | .12 | .28 | .18 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 7.00 | 7.50 | 178 | 191 | 47.3 | 210.4 | 80.8 | 359.4 | 111.4 | 495.5 | 137.8 | 612.9 | .28 | .20 | .42 | .30 |

## Eagle Blue 55D

DESCRIPTION
Round, Non–Reinforced

MATERIAL
Polyester

HARDNESS
55D

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .50
Steel .40
UHMW .30

TEMPERATURE RANGE
-22ºF to +176ºF
-30ºC to +80ºC

| Cross Section | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10mm | 10 | 5.00 | 127 | 39.3 | 174.6 | 60.4 | 268.7 | 78.5 | 349.2 | 93.0 | 413.8 | .07 | .10 |
| 15mm | 15 | 7.50 | 190 | 88.3 | 392.9 | 135.9 | 604.5 | 176.7 | 785.8 | 209.3 | 931.0 | .14 | .21 |
| 18mm | 18 | 9.00 | 229 | 127.2 | 565.8 | 195.7 | 870.5 | 254.4 | 1131.5 | 301.4 | 1340.6 | .22 | .33 |

# Technical Data

## Eagle Blue 55D

DESCRIPTION
Trapezoidal,
Non-Reinforced


Vee

MATERIAL
Polyester

HARDNESS
55D

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .50
Steel .40
UHMW .30

TEMPERATURE RANGE
-22ºF to +176ºF
-30ºC to +80ºC

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Z/10 | | 10 x 6.5 | 3.13 | 80 | 22.2 | 98.8 | 32.7 | 145.2 | 41.0 | 182.4 | 47.5 | 211.2 | .05 | .07 |
| A/13 | 1/2 x 5/16 | 13 x 8 | 4.00 | 102 | 35.5 | 158.1 | 52.3 | 232.4 | 65.6 | 291.8 | 76.0 | 337.9 | .07 | .10 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 5.50 | 140 | 61.2 | 272.2 | 90.0 | 400.1 | 112.9 | 502.4 | 130.8 | 581.7 | .11 | .21 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 7.00 | 178 | 108.5 | 482.7 | 159.5 | 709.5 | 200.3 | 890.8 | 231.9 | 1031.5 | .19 | .28 |

## Eagle Opaque 80 R

DESCRIPTION
Round, Reinforced

HARDNESS
80A

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .75
Steel .65
UHMW .50

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8mm | 8 | 3.13 | 80 | 4.3 | 19.2 | 10.7 | 47.6 | 15.4 | 68.4 | 19.0 | 84.6 | .04 | .06 |
| 10mm | 10 | 3.93 | 100 | 9.7 | 43.1 | 24.1 | 107.2 | 34.6 | 153.9 | 42.8 | 190.3 | .06 | .09 |
| 15mm | 15 | 5.90 | 150 | 21.8 | 97.0 | 54.2 | 241.1 | 77.9 | 346.4 | 96.3 | 428.2 | .14 | .21 |

## Eagle Opaque 80 R

DESCRIPTION
Trapezoidal, Reinforced


Vee


Ridge-Top

HARDNESS
80A

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .75
Steel .65
UHMW .50

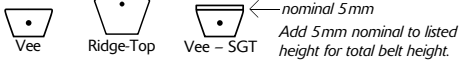
TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A/13 | 1/2 x 5/16 | 13 x 8 | 3.13 | 80 | 6.2 | 27.5 | 16.7 | 74.4 | 25.2 | 111.9 | 30.8 | 136.8 | .07 | .10 |
| A/13 Ridge-Top | | 13 x 16 | 6.30 | 160 | 6.2 | 27.5 | 16.7 | 74.4 | 25.2 | 111.9 | 30.8 | 136.8 | .09 | .13 |
| B/17 | 11/16 x 13/32 | 17 x 11 | 4.38 | 110 | 11.0 | 48.8 | 29.7 | 132.0 | 44.6 | 198.4 | 54.5 | 242.6 | .11 | .16 |
| B/17 Ridge-Top | | 17 x 19.5 | 7.88 | 200 | 11.0 | 48.8 | 29.7 | 132.0 | 44.6 | 198.4 | 54.5 | 242.6 | .13 | .19 |

*For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.*
** w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface.*
*Dimensions are for reference only.*

## Eagle Ivory 85 R
## Eagle Ivory 85 RSGT

DESCRIPTION
Trapezoidal, Reinforced
RSGT with Integrally Bonded Top




HARDNESS
85A; RSGT with 50A PVC Top, 55A TPE Top or 70A PU Top

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) (Ivory 85 R) | Minimum Pulley Ø (in) (RSGT) | Minimum Pulley Ø (mm) (Ivory 85 R) | Minimum Pulley Ø (mm) (RSGT) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) (Ivory 85 R) | Weight per foot (lbs) (RSGT) | Weight per metre (kg) (Ivory 85 R) | Weight per metre (kg) (RSGT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Z/10 | | 10 x 6.5 | 2.38 | — | 60 | — | 2.9 | 12.7 | 8.6 | 38.2 | 13.7 | 60.8 | 17.4 | 77.6 | .05 | — | .07 | — |
| A/13 | 1/2 x 5/16 | 13 x 8 | 3.13 | 3.60 | 80 | 92 | 5.0 | 22.2 | 15.1 | 67.0 | 24.0 | 106.7 | 30.6 | 136.1 | .07 | .08 | .10 | .12 |
| A/13 Ridge-Top | | 13 x 16 | 6.30 | — | 160 | — | 5.0 | 22.2 | 15.1 | 67.0 | 24.0 | 106.7 | 30.6 | 136.1 | .09 | — | .13 | — |
| B/17 | 11/16 x 13/32 | 17 x 11 | 4.38 | 4.88 | 110 | 124 | 8.8 | 39.4 | 26.7 | 118.8 | 42.5 | 189.2 | 54.3 | 241.3 | .11 | .12 | .16 | .18 |
| B/17 Ridge-Top | | 17 x 19.5 | 7.88 | — | 200 | — | 8.8 | 39.4 | 26.7 | 118.8 | 42.5 | 189.2 | 54.3 | 241.3 | .13 | — | .19 | — |
| C/22 | 29/32 x 17/32 | 22 x 14 | 5.50 | 6.00 | 140 | 152 | 14.6 | 65.1 | 44.2 | 196.7 | 70.4 | 313.1 | 89.8 | 399.4 | .19 | .20 | .28 | .30 |
| C/22 Ridge-Top | | 22 x 24.5 | 11.00 | — | 280 | — | 14.6 | 65.1 | 44.2 | 196.7 | 70.4 | 313.1 | 89.8 | 399.4 | .28 | — | .41 | — |
| C/22 Ridge-Top | | 22 x 28.5 | 11.00 | — | 280 | — | 14.6 | 65.1 | 44.2 | 196.7 | 70.4 | 313.1 | 89.8 | 399.4 | .32 | — | .47 | — |

## Eagle Orange 85 R

DESCRIPTION
Round, Reinforced

HARDNESS
85A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (in) | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6mm | | 6 | 2.38 | 60 | 0.8 | 3.6 | 2.8 | 12.3 | 5.4 | 24.1 | 7.8 | 34.6 | .025 | .04 |
| 1/4" | 1/4 | 6.3 | 2.50 | 64 | 0.8 | 3.6 | 2.8 | 12.3 | 5.4 | 24.1 | 7.8 | 34.6 | .03 | .05 |
| 5/16" | 5/16 | | 3.13 | 79 | 1.3 | 5.6 | 4.3 | 19.3 | 8.5 | 37.6 | 12.1 | 54.0 | .04 | .06 |
| 8mm | | 8 | 3.13 | 80 | 1.3 | 5.6 | 4.3 | 19.3 | 8.5 | 37.6 | 12.1 | 54.0 | .04 | .06 |
| 3/8" | 3/8 | 9.5 | 3.75 | 95 | 1.8 | 8.0 | 6.2 | 27.8 | 12.2 | 54.2 | 17.5 | 77.8 | .06 | .09 |
| 10mm | | 10 | 3.94 | 100 | 2.6 | 11.6 | 10.1 | 39.5 | 17.1 | 76.1 | 24.9 | 110.7 | .06 | .09 |
| 12mm | | 12 | 4.75 | 120 | 3.3 | 14.7 | 11.5 | 51.2 | 22.5 | 100.0 | 32.3 | 143.7 | .09 | .13 |
| 1/2" | 1/2 | 12.5 | 5.00 | 127 | 3.2 | 14.2 | 11.1 | 49.4 | 21.6 | 96.3 | 31.1 | 138.2 | .10 | .15 |
| 9/16" | 9/16 | | 5.63 | 143 | 4.1 | 18.0 | 14.0 | 62.5 | 27.4 | 121.9 | 39.3 | 175.0 | .13 | .19 |
| 15mm | | 15 | 5.90 | 150 | 4.5 | 20.0 | 15.5 | 68.9 | 30.2 | 134.3 | 43.4 | 193.0 | .14 | .21 |
| 5/8" | 5/8 | | 6.25 | 159 | 5.0 | 22.3 | 17.3 | 77.1 | 33.8 | 150.4 | 48.6 | 216.0 | .16 | .24 |
| 3/4" | 3/4 | | 7.50 | 191 | 7.2 | 32.1 | 25.0 | 111.1 | 48.7 | 216.6 | 69.9 | 311.1 | .23 | .34 |
| 20mm | | 20 | 7.88 | 200 | 7.6 | 33.8 | 26.3 | 116.9 | 51.1 | 227.3 | 73.4 | 326.5 | .23 | .34 |

## Eagle Orange 85 R

DESCRIPTION
Trapezoidal, Reinforced


HARDNESS
85A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Z/10 | | 10 x 6.5 | 2.38 | 60 | 2.6 | 11.4 | 6.1 | 27.0 | 9.7 | 43.0 | 12.7 | 56.6 | .05 | .07 |
| A/13 | 1/2 x 5/16 | 13 x 8 | 3.13 | 80 | 4.0 | 17.9 | 9.5 | 42.4 | 15.2 | 67.6 | 20.0 | 89.0 | .07 | .10 |
| B/17 | 11/16 x 13/32 | 17 x 11.5 | 4.38 | 110 | 7.0 | 30.9 | 16.5 | 73.3 | 26.2 | 116.7 | 34.5 | 153.7 | .11 | .16 |
| C/22 | 29/32 x 17/32 | 22 x 14.5 | 5.50 | 140 | 12.1 | 53.8 | 28.7 | 127.7 | 45.7 | 203.3 | 60.2 | 267.8 | .19 | .28 |

## Eagle Hyfen 85 R

DESCRIPTION
Round, Reinforced

HARDNESS
85A

FDA COMPLIANT MATERIALS
Yes

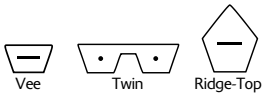
COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (in) | (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 1% (lbs) | (N) | 2% (lbs) | (N) | 3% (lbs) | (N) | 4% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/16" | 3/16 | | 2.00 | 51 | 2.8 | 12.5 | 8.4 | 37.4 | 11.9 | 52.9 | 14.7 | 65.4 | .01 | .015 |
| 1/4" | 1/4 | 6.3 | 2.75 | 70 | 3.0 | 13.4 | 9.5 | 42.3 | 14.9 | 66.3 | 18.7 | 83.2 | .03 | .05 |
| 5/16" | 5/16 | | 3.44 | 87 | 3.7 | 16.5 | 12.4 | 55.2 | 20.0 | 89.0 | 27.8 | 123.7 | .04 | .06 |
| 3/8" | 3/8 | 9.5 | 4.13 | 105 | 7.3 | 32.5 | 26.2 | 116.5 | 43.5 | 193.5 | 57.4 | 255.3 | .06 | .09 |
| 1/2" | 1/2 | 12.5 | 5.50 | 140 | 7.3 | 32.5 | 26.2 | 116.5 | 43.5 | 193.5 | 57.4 | 255.3 | .10 | .15 |
| 9/16" | 9/16 | | 6.19 | 157 | 16.7 | 74.3 | 36.6 | 162.8 | 58.0 | 258.0 | 75.8 | 337.2 | .13 | .19 |
| 5/8" | 5/8 | | 6.88 | 175 | 16.7 | 74.3 | 36.6 | 162.8 | 58.0 | 258.0 | 75.8 | 337.2 | .16 | .24 |
| 3/4" | 3/4 | | 8.25 | 210 | 16.7 | 74.3 | 36.6 | 162.8 | 58.0 | 258.0 | 75.8 | 337.2 | .23 | .34 |

## Eagle Hyfen 85 R

DESCRIPTION
Trapezoidal, Reinforced




HARDNESS
85A

FDA COMPLIANT MATERIALS
Yes

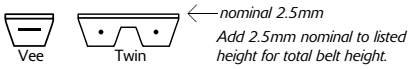
COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 1% (lbs) | (N) | 2% (lbs) | (N) | 3% (lbs) | (N) | 4% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3L Twin | 15/16 x 17/64 | 3.00 | 76 | 14.4 | 63.9 | 20.7 | 91.9 | 27.8 | 123.8 | 35.3 | 156.8 | .10 | .15 |
| A Ridge-Top | 1/2 x 9/16 | 6.19 | 157 | 17.4 | 77.4 | 25.1 | 111.4 | 33.8 | 150.1 | 42.8 | 190.2 | .09 | .13 |
| A Twin | 1 3/16 x 5/16 | 3.44 | 87 | 16.5 | 73.3 | 23.7 | 105.5 | 31.9 | 142.1 | 40.5 | 180.0 | .15 | .22 |
| B Ridge-Top | 21/32 x 11/16 | 7.50 | 191 | 25.7 | 114.4 | 37.0 | 164.6 | 49.8 | 221.7 | 63.2 | 280.9 | .13 | .19 |
| D | 1 1/4 x 3/4 | 12.00 | 305 | 77.1 | 343.0 | 111.0 | 493.6 | 149.5 | 664.9 | 189.4 | 842.4 | .38 | .57 |

## Eagle Hyfen 85 CXF
## Eagle Hyfen 85 CXR

DESCRIPTION
Trapezoidal, Reinforced




*Add 2.5mm nominal to listed height for total belt height.*

HARDNESS
85A Base, 60A Top

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .70
Steel .60
UHMW .45

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 1% (lbs) | (N) | 2% (lbs) | (N) | 3% (lbs) | (N) | 4% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1/2 x 5/16 | 4.50 | 114 | 22.2 | 98.6 | 29.6 | 131.7 | 36.7 | 163.1 | 43.4 | 193.2 | .07 | .10 |
| A Twin | 1 3/16 x 5/16 | 4.50 | 114 | 16.5 | 73.3 | 23.7 | 105.5 | 31.9 | 142.1 | 40.5 | 180.0 | .15 | .22 |
| B | 21/32 x 13/32 | 5.50 | 140 | 32.7 | 145.7 | 43.7 | 194.6 | 54.1 | 240.9 | 64.1 | 285.3 | .11 | .16 |
| C | 7/8 x 17/32 | 7.00 | 178 | 48.9 | 217.6 | 65.4 | 290.7 | 80.9 | 359.9 | 95.9 | 426.3 | .15 | .22 |
| D | 1 1/4 x 3/4 | 12.50 | 318 | 96.4 | 428.7 | 128.7 | 572.6 | 159.4 | 708.8 | 188.8 | 839.7 | .38 | .57 |

*For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.*
** w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface.*
*Dimensions are for reference only.*

## Eagle Green 89 RT

DESCRIPTION
Round, Reinforced, Textured

HARDNESS
89A

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .50
Steel .40
UHMW .30

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 1% (lbs) | (N) | 2% (lbs) | (N) | 3% (lbs) | (N) | 4% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5mm | 5 | 2.00 | 50 | 1.7 | 7.4 | 5.0 | 22.2 | 10.2 | 45.5 | 15.8 | 70.1 | .02 | .03 |
| 6mm | 6 | 2.38 | 60 | 2.4 | 10.6 | 7.2 | 32.0 | 14.7 | 65.5 | 22.7 | 101.0 | .025 | .04 |
| 7mm | 7 | 2.75 | 70 | 3.3 | 14.5 | 9.8 | 43.5 | 20.0 | 89.1 | 30.9 | 137.4 | .03 | .05 |
| 8mm | 8 | 3.13 | 80 | 4.3 | 18.9 | 12.8 | 56.8 | 26.2 | 116.4 | 40.4 | 179.5 | .04 | .06 |
| 10mm | 10 | 3.94 | 100 | 6.6 | 29.6 | 20.0 | 88.8 | 40.9 | 181.9 | 63.1 | 280.5 | .06 | .09 |
| 12mm | 12 | 4.75 | 120 | 9.6 | 42.6 | 28.8 | 127.9 | 58.9 | 262.0 | 90.8 | 403.9 | .09 | .13 |
| 15mm | 15 | 5.90 | 150 | 15.0 | 66.5 | 44.9 | 199.8 | 92.0 | 409.3 | 141.9 | 631.1 | .14 | .21 |
| 18mm | 18 | 7.00 | 180 | 21.5 | 95.8 | 64.7 | 287.8 | 132.5 | 589.4 | 204.3 | 908.8 | .22 | .33 |

## Eagle Green 89 R

DESCRIPTION
Trapezoidal, Reinforced


HARDNESS
89A

FDA COMPLIANT MATERIALS
No

COEFFICIENT OF FRICTION
Stainless Steel .65
Steel .55
UHMW .40

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 1% (lbs) | (N) | 2% (lbs) | (N) | 3% (lbs) | (N) | 4% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A/13 | 13 x 8 | 3.70 | 95 | 13.4 | 59.8 | 51.9 | 230.8 | 80.9 | 360.1 | 101.3 | 450.8 | .07 | .10 |
| A/13 Ridge-Top | 13 x 16 | 6.30 | 160 | 13.4 | 59.8 | 51.9 | 230.8 | 80.9 | 360.1 | 101.3 | 450.8 | .09 | .13 |
| B/17 | 17 x 11 | 4.70 | 120 | 19.6 | 87.2 | 71.8 | 319.3 | 127.1 | 565.6 | 166.4 | 740.7 | .11 | .16 |
| B/17 Ridge-Top | 17 x 19.5 | 8.10 | 205 | 19.6 | 87.2 | 71.8 | 319.3 | 127.1 | 565.6 | 166.4 | 740.7 | .13 | .19 |
| C/22 | 22 x 14 | 5.90 | 150 | 35.0 | 155.7 | 131.5 | 218.8 | 218.8 | 873.8 | 280.5 | 1248.3 | .19 | .28 |
| C/22 Ridge-Top | 22 x 24.5 | 11.00 | 280 | 35.0 | 155.7 | 131.5 | 218.8 | 218.8 | 973.8 | 280.5 | 1248.3 | .28 | .41 |
| C/22 Ridge-Top | 22 x 28.5 | 11.00 | 280 | 35.0 | 155.7 | 131.5 | 218.8 | 218.8 | 973.8 | 280.5 | 1248.3 | .32 | .47 |

## Eagle Beige 95 R

DESCRIPTION
Round, Reinforced

HARDNESS
95A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions Ø (mm) | Minimum Pulley Ø (in) | (mm) | Working Load @ Percent Tension 1% (lbs) | (N) | 2% (lbs) | (N) | 3% (lbs) | (N) | 4% (lbs) | (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8mm | 8 | 3.75 | 96 | 3.8 | 17.1 | 7.0 | 31.2 | 10.4 | 46.2 | 13.6 | 205.5 | .04 | .06 |
| 10mm | 10 | 4.75 | 120 | 6.0 | 26.7 | 11.0 | 48.8 | 16.2 | 72.2 | 21.2 | 321.1 | .06 | .09 |
| 15mm | 15 | 7.10 | 180 | 13.5 | 60.1 | 24.7 | 109.7 | 36.5 | 162.5 | 47.8 | 722.8 | .14 | .21 |

# Technical Data

## Eagle Beige 95 R

DESCRIPTION
Trapezoidal, Reinforced


Vee

HARDNESS
95A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Dimensions w x h* (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3L | 3/8 x 7/32 | | 2.63 | 67 | 11.1 | 49.2 | 25.8 | 114.8 | 37.9 | 168.4 | 46.6 | 207.2 | .03 | .05 |
| 3L Cogged | 3/8 x 7/32 | | 2.38 | 60 | 11.1 | 49.4 | 25.8 | 114.8 | 37.9 | 168.6 | 46.6 | 207.3 | .03 | .05 |
| Z/10 | | 10 x 6.5 | 2.81 | 72 | 12.5 | 55.6 | 29.0 | 129.0 | 42.6 | 189.5 | 52.4 | 233.1 | .05 | .07 |
| A/13 | 1/2 x 3/8 | 13 x 8 | 3.75 | 96 | 20.6 | 91.6 | 48.0 | 213.5 | 70.5 | 313.6 | 86.7 | 385.6 | .07 | .10 |
| A/13 Cogged | | 13 x 8 | 3.13 | 80 | 20.6 | 91.6 | 48.0 | 213.5 | 70.5 | 313.6 | 86.7 | 385.6 | .06 | .09 |
| B/17 | 21/32 x 1/2 | 17 x 11 | 5.19 | 132 | 35.5 | 157.9 | 83.0 | 369.2 | 121.7 | 541.3 | 149.8 | 666.3 | .11 | .16 |
| B/17 Cogged | | 17 x 11 | 4.38 | 110 | 35.5 | 157.9 | 83.0 | 369.2 | 121.7 | 541.3 | 149.8 | 666.3 | .10 | .15 |
| C/22 | 7/8 x 5/8 | 22 x 14 | 6.63 | 168 | 61.9 | 275.3 | 144.5 | 642.7 | 212.0 | 943.0 | 260.9 | 1160.5 | .19 | .28 |
| C/22 Cogged | | 22 x 14 | 5.50 | 140 | 61.9 | 275.3 | 144.5 | 642.7 | 212.0 | 943.0 | 260.9 | 1160.5 | .18 | .27 |

## Eagle Hyfen 95 R

DESCRIPTION
Trapezoidal, Reinforced


Vee

HARDNESS
95A

FDA COMPLIANT MATERIALS
Yes

COEFFICIENT OF FRICTION
Stainless Steel .55
Steel .45
UHMW .35

TEMPERATURE RANGE
-22ºF to +150ºF
-30ºC to +66ºC

| Cross Section | Dimensions w x h* (in) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1/2 x 3/8 | 4.50 | 114 | 22.3 | 99.2 | 32.4 | 144.2 | 41.6 | 185.2 | 50.4 | 224.1 | .07 | .10 |
| A Cogged | 1/2 x 3/8 | 3.50 | 89 | 22.3 | 99.2 | 32.4 | 144.2 | 41.6 | 185.2 | 50.4 | 224.1 | .06 | .09 |
| B | 21/32 x 1/2 | 6.00 | 152 | 32.9 | 146.5 | 47.9 | 213.0 | 61.5 | 273.5 | 74.4 | 330.9 | .11 | .16 |
| B Cogged | 21/32 x 1/2 | 4.50 | 114 | 32.9 | 146.5 | 47.9 | 213.0 | 61.5 | 273.5 | 74.4 | 330.9 | .10 | .15 |
| C | 7/8 x 5/8 | 7.50 | 191 | 49.2 | 218.8 | 71.5 | 318.2 | 91.9 | 408.6 | 111.2 | 494.4 | .19 | .28 |
| C Cogged | 7/8 x 5/8 | 6.50 | 216 | 49.2 | 218.8 | 71.5 | 318.2 | 91.9 | 408.6 | 111.2 | 494.4 | .18 | .27 |

## Eagle Can Cable

DESCRIPTION
Round, Reinforced

MATERIAL
Polyester; Red is an Engineered Polymer

HARDNESS
See Chart

FDA COMPLIANT MATERIALS
All except Red

TEMPERATURE RANGE (RED ONLY)
-22ºF to +150ºF
-30ºC to +66ºC

TEMPERATURE RANGE (ALL OTHERS)
-22ºF to +176ºF
-30ºC to +80ºC

| Product | Durometer Hardness | Dimension Ø | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 1% (lbs) | 1% (N) | 2% (lbs) | 2% (N) | 3% (lbs) | 3% (N) | 4% (lbs) | 4% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Red 50D CC LCF | 50D | 3/8" | 10.00 | 254 | 23.8 | 105.9 | 57.8 | 257.2 | 104.3 | 463.7 | 152.2 | 677.2 | .06 | .09 |
| Blue 55D CC | 55D | 3/8" | 12.00 | 305 | 18.1 | 80.5 | 42.8 | 190.4 | 79.4 | 353.2 | 118.4 | 526.6 | .06 | .09 |
| Natural 55D CC | 55D | 3/8" | 12.00 | 305 | 18.1 | 80.5 | 42.8 | 190.4 | 79.4 | 353.2 | 118.4 | 526.6 | .06 | .09 |
| Green 63D CC | 63D | 3/8" | 12.00 | 305 | 18.1 | 80.5 | 42.8 | 190.4 | 79.4 | 353.2 | 118.4 | 526.6 | .06 | .09 |
| Natural 63D CC | 63D | 3/8" | 12.00 | 305 | 18.1 | 80.5 | 42.8 | 190.4 | 79.4 | 353.2 | 118.4 | 526.6 | .06 | .09 |
| Blue 55D Aramid CC | 55D | 9.5mm | 12.00 | 305 | 41.7 | 185.5 | 149.1 | 663.2 | 281.1 | 1250.4 | N/A | N/A | .06 | .09 |

*For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.*
** w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface.*
*Dimensions are for reference only.*

## V-Belts

All polyurethane V-belts in the "classical" profiles (A, B, C, and D), and light duty 3L cross section are designed to fit RMA compliant pulleys as per the groove details illustrated in Fig. 1 below.

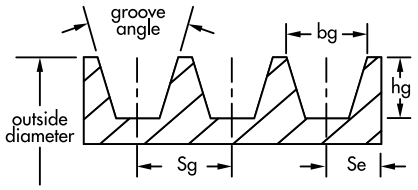



*Figure 1*

| Cross Section | Datum Diameter Range | Groove Angle | $b_g$ (in.) | $h_{g\ Min}$ (in.) | $S_g$ (in.) | $S_e$ (in.) |
|---|---|---|---|---|---|---|
| A/13 | Up thru 5.4" | 34° ±0.33° | 0.494 ±0.005 | 0.460 | 0.625 ±0.025 | 0.375 +0.090 −0.062 |
| | Over 5.4" | 38° ±0.33° | 0.504 | | | |
| B/17 | Up thru 7.0" | 34° ±0.33° | 0.637 ±0.006 | 0.550 | 0.750 ±0.025 | 0.500 +0.120 −0.065 |
| | Over 7.0" | 38° ±0.33° | 0.650 | | | |
| C/22 | Up thru 7.99" | 34° ±0.33° | 0.879 | 0.750 | 1.000 ±0.025 | 0.688 +0.160 −0.070 |
| | 8.0" thru12.0" | 36° ±0.33° | 0.887 ±0.007 | | | |
| | Over 12.0" | 38° ±0.33° | 0.895 | | | |
| D/32 | Up thru 12.99" | 34° ±0.33° | 1.259 | 1.020 | 1.438 ±0.025 | 0.875 +0.220 −0.080 |
| | 13.0" thru 17.0" | 36° ±0.33° | 1.271 ±0.008 | | | |
| | Over 17.0" | 38° ±0.33° | 1.283 | | | |
| 3L | 2.2" thru 3.1" | 34° ±0.33° | 0.364 ±0.005 | 0.406 | 0.500 ±0.025 | 0.313 +0.062 −0.032 |
| | 3.2" thru 4.2" | 36° ±0.33° | | | | |
| | Over 4.2" | 38° ±0.33° | | | | |

*Dimensions in inches unless otherwise indicated.*

## Round Belts

Round Eagle® belting is commonly run in pulleys with a round profile, see Fig. 2. In the absence of round groove pulleys, round belts can also be used in pulleys with vee grooves, Fig. 3. The table at right shows the dimensional data when a round belt is used in a V-groove.

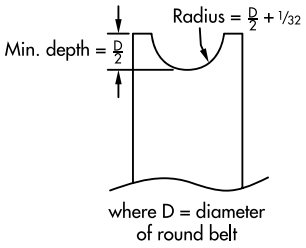



*Figure 2*

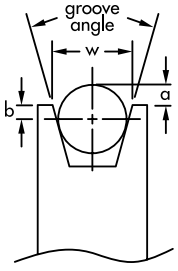



*Figure 3*

| Pulley Size | Pulley Diameter (inches) | Groove Angle | Round Belt | Dimensions | | |
|---|---|---|---|---|---|---|
| | | | | w | a | b |
| 2L | Under 1.50" | 32° | 3/16" | .240 | .010 | .084 |
| 2L | 1.50" to 1.99" O.D. | 34° | 3/16" | .243 | .016 | .078 |
| | | | 1/4" | .243 | .153 | –.028 |
| 2L | 2.00" to 2.50" O.D. | 36° | 3/16" | .246 | .020 | .074 |
| | | | 1/4" | .246 | .151 | –.026 |
| 2L | Over 2.50" O.D. | 38° | 3/16" | .250 | .020 | .074 |
| | | | 1/4" | .250 | .146 | –.021 |
| 3L | Under 2.20" O.D. | 32° | 1/4" | .360 | –.049 | .174 |
| | | | 5/16" | .360 | .094 | .062 |
| 3L | 2.20" to 3.19" O.D. | 34° | 1/4" | .364 | –.043 | .168 |
| | | | 5/16" | .364 | .094 | .062 |
| 3L | 3.20" to 4.20" O.D. | 36° | 1/4" | .368 | –.037 | .062 |
| | | | 5/16" | .368 | .095 | .061 |
| 3L | Over 4.20" O.D. | 38° | 1/4" | .372 | –.031 | .156 |
| | | | 5/16" | .372 | .095 | .061 |
| A/13 | 2.60" to 5.40" D.D. | 34° | 5/16" | .494 | –.118 | .274 |
| | | | 3/8" | .494 | .019 | .168 |
| | | | 1/2" | .494 | .297 | –.047 |
| A/13 | Over 5.40" D.D. | 38° | 5/16" | .504 | –.097 | .253 |
| | | | 3/8" | .504 | .030 | .157 |
| | | | 1/2" | .504 | .286 | .036 |
| B/17 | 4.60" to 7.00" D.D. | 34° | 1/2" | .637 | .062 | .188 |
| | | | 9/16" | .637 | .199 | .082 |
| | | | 5/8" | .637 | .340 | –.027 |
| B/17 | Over 7.00" D.D. | 38° | 1/2" | .650 | .074 | .176 |
| | | | 9/16" | .650 | .200 | .081 |
| | | | 5/8" | .650 | .331 | –.018 |
| C/22 | 7.00" to 7.99" D.D. | 34° | 5/8" | .879 | –.056 | .369 |
| | | | 3/4" | .879 | .218 | .157 |
| C/22 | 8.00" to 12.00" D.D. | 36° | 5/8" | .887 | –.041 | .354 |
| | | | 3/4" | .887 | .222 | .153 |
| C/22 | Over 12.00" D.D. | 38° | 5/8" | .895 | –.027 | .340 |
| | | | 3/4" | .895 | .226 | .149 |

*Note: above dimensions are belt fit in groove under no tension.*
*Dimensions in inches unless otherwise indicated.*

## Flat Belts

All flat belts have a natural tendency to move laterally. Therefore a flat or straight pulley is not recommended, as the belt would walk off the pulley. To keep the belt in the centre of the pulley it must have a crown. Fig. 4 illustrates a round crown and is the preferred method. A modified round crown as illustrated in Fig. 5 is also acceptable. A flat pulley with guide flanges (Fig. 6) is not recommended. Even with the guide flanges the belt will move laterally and potentially could climb up onto them.

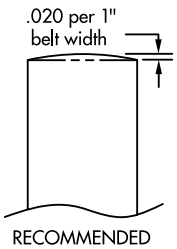



*Figure 4*

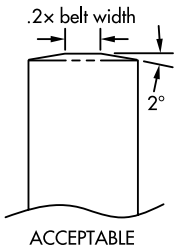



*Figure 5*

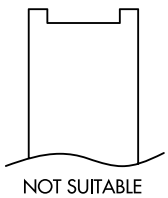



*Figure 6*

## V-Belts

All polyurethane V-belts in the "classical" profiles, i.e. Z/10, A/13, B/17, C/22, and D/32, are designed to fit ISO and DIN 2215 compliant pulleys as per the groove details illustrated in Fig. 1 below.

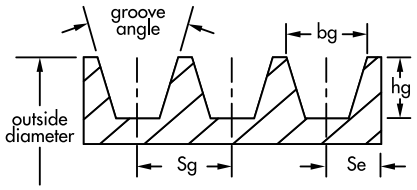



*Figure 1*

| Cross Section | Datum Diameter Range | Groove Angle | $b_g$ (mm) | $h_{g\ Min}$ (mm) | $S_g$ (mm) | $S_e$ (mm) |
|---|---|---|---|---|---|---|
| Z/10 | Up thru 80mm<br>Over 80mm | 34° ±1°<br>38° ±1° | 9.7 | 11 | 12 ±0.3 | 8 ±0.6 |
| A/13 | Up thru 118mm<br>Over 118mm | 34° ±1°<br>38° ±1° | 12.7 | 14 | 15 ±0.3 | 10 ±0.6 |
| B/17 | Up thru 190mm<br>Over 190mm | 34° ±1°<br>38° ±1° | 16.3 | 18 | 19 ±0.4 | 12.5 ±0.8 |
| C/22 | Up thru 315mm<br>Over 315mm | 34° ±1°<br>38° ±30′ | 22 | 24 | 25.5 ±0.5 | 17 ±1.0 |
| D/32 | Up thru 500mm<br>Over 500mm | 36° ±30′<br>38° ±30′ | 32 | 28 | 37 ±0.6 | 24 ±2.0 |

*Dimensions in millimetres unless otherwise indicated.*

## Round Belts

Round Eagle® belting is commonly run in pulleys with a round profile, see Fig. 2. In the absence of round groove pulleys, round belts can also be used in pulleys with vee grooves, Fig. 3. The table at right shows the dimensional data when a round belt is used in a V-groove.

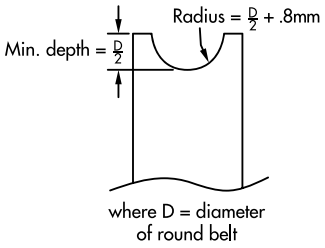



*Figure 2*

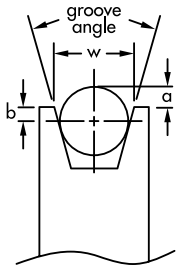



*Figure 3*

| Pulley Size | Pulley Diameter O.D. (mm) | Groove Angle | Round Belt | Dimensions | | |
|---|---|---|---|---|---|---|
| | | | | w | a | b |
| Z/10 | Up thru 80mm | 34° | 7 | 9.7 | -0.39 | 3.89 |
| | | | 8 | 9.7 | 1.82 | 2.18 |
| | | | 9.5 | 9.7 | 5.14 | -0.39 |
| Z/10 | Over 80mm | 38° | 7 | 9.7 | 0.17 | 3.34 |
| | | | 8 | 9.7 | 2.19 | 1.81 |
| | | | 9.5 | 9.7 | 5.25 | -0.50 |
| A/13 | Up thru 118mm | 34° | 9.5 | 12.7 | 0.23 | 4.52 |
| | | | 10 | 12.7 | 1.33 | 3.67 |
| | | | 12 | 12.7 | 5.75 | 0.25 |
| A/13 | Over 118mm | 38° | 9.5 | 12.7 | 0.90 | 3.85 |
| | | | 10 | 12.7 | 1.91 | 3.09 |
| | | | 12 | 12.7 | 5.98 | 0.02 |
| B/17 | Up thru 190mm | 34° | 12 | 16.3 | -0.14 | 6.14 |
| | | | 15 | 16.3 | 6.50 | 1.00 |
| | | | 16 | 16.3 | 8.71 | -0.71 |
| B/17 | Over 190mm | 38° | 12 | 16.3 | 0.76 | 5.24 |
| | | | 15 | 16.3 | 6.87 | 0.63 |
| | | | 16 | 16.3 | 8.90 | -0.90 |
| C/22 | Up thru 315mm | 34° | 20 | 22 | 8.22 | 1.78 |
| C/22 | Over 315mm | 38° | 20 | 22 | 9.00 | 1.23 |

*Note: above dimensions are belt fit in groove under no tension.*
*Dimensions are in millimetres unless otherwise indicated.*

## Flat Belts

All flat belts have a natural tendency to move laterally. Therefore a flat or straight pulley is not recommended, as the belt would walk off the pulley. To keep the belt in the centre of the pulley it must have a crown. Fig. 4 illustrates a round crown and is the preferred method. A modified round crown as illustrated in Fig. 5 is also acceptable. A flat pulley with guide flanges (Fig. 6) is not recommended. Even with the guide flanges the belt will move laterally and potentially could climb up onto them.

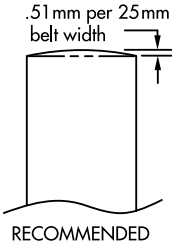



*Figure 4*

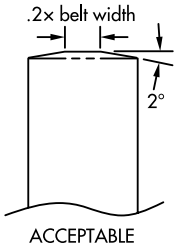



*Figure 5*

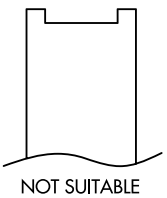



*Figure 6*

## Belt Installation Tension

All belts require a certain amount of tension to function properly in the application. The specific installation tension is determined from several factors including belt type, construction and working load. Belt details are in the Technical Data section of this catalog and working load is derived from your application.

*Non-Reinforced Belting:* When non-reinforced belting is stretched and released, elasticity is the property that brings the material back to its original shape. This "memory" is what gives our non-reinforced belting its self-tensioning properties. When a non-reinforced belt is first installed (stretched) the material does not return to 100% of its original length and continues to lose elasticity over its life span. This loss in elasticity is evident as tension decay. To overcome tension decay effects, a non-reinforced belt requires a relatively high installed tension. Installation tensions ranging from 6% to 10% will normally be sufficient for most applications. If higher tensions are required, the application may exceed the belt's load capacity.

*Reinforced Belting:* Reinforced belts contain a reinforcing tensile member which increases the belt's modulus of elasticity. This reduces the belt's ability to stretch and minimizes tension decay. This allows a reinforced belt to carry a greater load than a non-reinforced belt. Since an endless reinforced belt is essentially a fixed length, it cannot be stretched on like a non-reinforced belt. Consequently, reinforced belts require a mechanical take-up mechanism to apply the appropriate installation tension as well as accommodating any eventual small amount of tension decay that may occur. This mechanism should accommodate at least 4% of the belt's length.

## Belt Installation Length

In this section, we will refer to two different lengths that are defined as follows:

*1. Reference Length:* The length determined by taking a measuring tape and following the path of the belt around all of the pulleys, or through computer aided design (CAD) techniques. This length may also be obtained from the equation below. Take up mechanisms should be adjusted to the minimum position to allow for maximum adjustment of the belt prior to taking or calculating length. Note: this equation applies to two-pulley drives only.

$$L = 2C + \frac{\pi}{2}(D + d) + \frac{(D - d)^2}{4C}$$

where: L = reference length
C = center of pulley shaft to center of pulley shaft distance
D = pitch diameter of large pulley
d = pitch diameter of small pulley

*2. Cut Length:* The length the belt is cut to prior to welding.

Apply the following formulas to determine the Cut Length from Reference Length:

| | | |
|---|---|---|
| *Butt weld non-reinforced:*<br>*Cut Length = Reference Length ÷ (1 + % tension)*<br>Example: Reference Length for a non-reinforced belt is 44" (1120mm), requires 8% tension and will be butt welded. Cut Length is calculated on right. | Cut Length = 44" ÷ (1 + 8%)<br>= 44" ÷ 1.08<br>= 40.7" | Cut Length = 1120mm ÷ (1 + 8%)<br>= 1120mm ÷ 1.08<br>= 1037mm |
| *Overlap weld reinforced:* *Cut Length = Reference Length + 1.5" (38mm)*<br>Example: Reference Length for a reinforced belt is 44" (1120mm) and will be overlap welded. The overlap weld consumes 1.5" (38mm) of belt length. Cut Length is calculated on right. | Cut Length = 44" + 1.5"<br>= 45.5" | Cut Length = 1120mm + 38mm<br>= 1158mm |
| *Butt weld reinforced:* *Cut Length = Reference Length*<br>Example: Reference Length for a reinforced belt is 44" (1120mm) and will be butt welded. The weld consumes a negligible amount of belt length, consequently, Cut Length and Reference Length are the same. Cut Length is calculated on right. | Cut Length = 44" | Cut Length = 1120mm |

## Temperature

The temperature range of polyurethane belting is determined by the thermoplastic resin. Like all thermoplastic resins its physical properties change with changes in temperature. At higher temperatures the material will soften, lose strength and can elongate excessively to the point of premature failure. At colder temperatures the material will become more brittle and stiff which can result in cracking. The temperature ranges are guidance and listed under each individual belt type in the Technical Data section.

## Minimum Pulley Diameter

The most common serious mistake in designing belt drives is the selection of a pulley diameter that is too small. In most cases, non-reinforced belts can operate on smaller diameter pulleys than belts with a reinforcing tensile member. Reinforced belts require a larger pulley diameter to prevent premature flex fatigue failure of the tensile member. Listed under each individual belt type in the Technical Data section is the recommended minimum pulley diameter. Smaller diameters can be used only if a reduction in belt service life is acceptable.

## Belt Profile Tolerance

**Round Belts:**

| | |
|---|---|
| Up to and including 3/16" (5 mm) diameter: | ± 0.005" (± .127mm) |
| Over 3/16" (5 mm) up to and including 1/4" (6.3 mm) diameter: | ± 0.007" (± .178mm) |
| Over 1/4" (6.3 mm) up to and including 9/16" (14 mm) diameter: | ± 0.010" (± .254mm) |
| Over 9/16" (14 mm) in diameter: | ± 0.012" (± .305mm) |

**Flat and V-Belts:**

All profiles: ± 0.015" (± .381mm)

*If a tighter tolerance is required, consult Fenner Drives Applications Engineering Group with your requirements.*

# Engineering Data — Selection Procedure, Conveying

1. Refer to the Technical Data chart for the belt material and cross section selected.

2. Use the following formula that meets your application requirements (Note: if belt supported by rollers use .17 for μ):

   a. Horizontal Transport with Slider Bed

   $$T_e = W_t \times \mu + B_{wt}$$

   b. Horizontal Transport with Slider Bed and Product Accumulation

   $$T_e = W_t \times \mu + B_{wt} + A_{wt}$$

   c. Incline or Decline Transport with Slider Bed

   $$T_e = \frac{W_t}{C} \times (H_t + \mu \times \sqrt{C^2 + H_t^2}) + B_{wt}$$

   d. Incline or Decline Transport with Slider Bed and Product Accumulation

   $$T_e = \frac{W_t}{C} \times (H_t + \mu \times \sqrt{C^2 + H_t^2}) + B_{wt} + A_{wt}$$

   Where:
   $T_e$ = Effective Tension
   $W_t$ = Total Weight on Conveyor
   $C$ = Conveyor Centre Distance
   $B_{wt}$ = Belt weight/unit length × C
   $A_{wt}$ = Accumulating weight × μ´
   (where μ´ is the COF between belt and product)
   $H_t$ = Incline or decline height
   μ = COF on slider bed material from chart

3. Determine Tight Tension ($T_1$).
   Flat and round belts: $T_1 = T_e \times 2$
   V-belts: $T_1 = T_e \times 1.25$

4. Refer to the Technical Data chart for the material and cross section selected and compare $T_1$ to the Working Load at maximum % tension. If only one belt is desired, $T_1$ may not be greater than the Working Load at maximum % tension. If more than one belt is required, divide $T_1$ by the Working Load at maximum % tension to arrive at number of belts. Round up to the nearest whole number of belts.

5. Find load per belt by dividing $T_1$ by number of belts. From the Technical Data chart, determine the percent installed tension for the load per belt.

To determine the required belt length, please refer to the "Belt Installation Length" section on the previous page.

## Eagle Orange 85
## Eagle Clear 85

| DESCRIPTION | HARDNESS | COEFFICIENT OF FRICTION | TEMPERATURE RANGE |
|---|---|---|---|
| Round, Non-Reinforced | 85A | Stainless Steel .70 | -22ºF to +150ºF |
| | FDA COMPLIANT MATERIALS | Steel .60 | -30ºC to +66ºC |
| | Yes | UHMW .45 | |

| Cross Section | Dimensions Ø (in) | Dimensions Ø (mm) | Minimum Pulley Ø (in) | Minimum Pulley Ø (mm) | Working Load @ Percent Tension 4% (lbs) | 4% (N) | 6% (lbs) | 6% (N) | 8% (lbs) | 8% (N) | 10% (lbs) | 10% (N) | Weight per foot (lbs) | Weight per metre (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 mm | | 6 | 1.88 | 48 | 1.7 | 7.6 | 2.6 | 11.6 | 3.5 | 15.6 | 4.3 | 19.1 | .04 | .04 |
| ¼ | ¼ | | 2.00 | 51 | 1.9 | 8.5 | 2.9 | 12.9 | 3.9 | 17.3 | 4.8 | 21.4 | .04 | .04 |

1. Refer to the Technical Data chart for the belt material and cross section selected.

**Example 1**

Type of belt being considered = Eagle Orange 85 in ¼" round
Head-to-tail center distance (C) = 10 feet
Incline or decline = none
Product accumulation on belt(s)? = no
Total weight on belt(s) = 15 lbs.
Type of belt support = UHMW slider bed

2. Horizontal Transport with Slider Bed.
Since the belt will run in UHMW slider bed the COF(μ) of .45 is used from Technical Data chart. From the chart the belt weight is .03 lbs/ft giving a total belt weight of .30 lbs (.03 x 10').
$T_e$ = 15 lbs × .45 + .30 = 7.05

3. Determine Tight Tension ($T_1$).
round belts $T_1$ = 7.05 × 2 = 14.10

4. Refer to the Technical Data chart for the material and cross section selected and compare $T_1$ to the Working Load at 10% tension. If only one belt is desired, $T_1$ may not be greater than the Working Load at 10% tension. If more than one belt is required, divide $T_1$ by the Working Load at 10% tension to arrive at number of belts. Round up to the nearest whole number of belts.
¼" round rated 4.8 lbs @ 10% tension. 14.10 ÷ 4.8 = 2.94 call 3 belts

5. Find load per belt by dividing $T_1$ by number of belts. From the Technical Data chart, determine the percent installed tension for the load per belt.
Load/belt = 14.10 ÷ 3 = 4.70 lbs
corresponding installed tension = 9.8%

**Example 2**

Eagle Orange 85 in 6mm round
Head-to-tail center distance (C) = 3 Metres
Incline or decline = none
Product accumulation on belt(s)? = no
Total weight on belt(s) = 6 kg
Type of belt support = UHMW slider bed

2. Horizontal Transport with Slider Bed.
Since the belt will run in UHMW slider bed the COF(μ) of .45 is used from Technical Data chart. From the chart the belt weight is .04 kgs/M giving a total belt weight of .12 kg (.04 x 3M).
$T_e$ = 6 kg × .45 + .12 = 2.82 kg

3. Determine Tight Tension ($T_1$).
round belts $T_1$ = 2.82 × 2 = 5.64kg = 55.3 Newtons (5.64 × 9.81)

4. Refer to the Technical Data chart for the material and cross section selected and compare $T_1$ to the Working Load at 10% tension. If only one belt is desired, $T_1$ may not be greater than the Working Load at 10% tension. If more than one belt is required, divide $T_1$ by the Working Load at 10% tension to arrive at number of belts. Round up to the nearest whole number of belts.
6mm round rated 19.1 kg @ 10% tension. 55.3 ÷ 19.1 = 2.89 call 3 belts

5. Find load per belt by dividing $T_1$ by number of belts. From the Technical Data chart, determine the percent installed tension for the load per belt.
Load/belt = 55.3 N ÷ 3 = 18.4 Newtons
corresponding installed tension = 9.4%

# Chemical Resistance Chart

*Polyurethane is extremely resistant to many industrial oils and chemicals, but not all. Below are a wide variety of oils and chemicals found in industrial applications. Consult Fenner Drives Applications Engineering group for assistance on projects with design criteria outside these parametres, or obtain a sample belt and determine its compatibility in the precise operating conditions.*

| Acids | Rating |
|---|---|
| Acetic, 5% | C |
| Boric, 4% | C |
| Chromic | C |
| Citronic | C |
| Formic | C |
| HCl | B |
| Hydrochloric, 10% | C |
| Lactic | C |
| Nitric, >1% | C |
| Oleic | C |
| Phosphoric | C |
| Sulfuric, <20% | B |
| Sulfuric, >20% | C |

| Alkalines | Rating |
|---|---|
| Ammonia, >10% | C |
| Detergent, 1% | A |
| Potassium Hydroxide | B |
| Soap, 1% | A |
| Sodium Hydroxide, 10% | C |

| Aqueous Solutions | Rating |
|---|---|
| Aluminum Chloride, 10% | C |
| Ammonium Chloride, 10% | C |
| Bleaching Agent, 40% | B |
| Bleaching Agent, 100% | C |
| Calcium Chloride, 40% | C |
| Caustic Soda, 10% | B |
| Cola | A |
| Ferric Chloride, 10% | C |
| Hydrogen Peroxide, 3% | B |
| Isopropanol, 50% | C |
| Magnesium Chloride, 30% | C |
| Potassium Chloride, 40% | C |
| Potassium Dichromate, 10% | C |
| Potassium Permanganate, 5% | C |
| Sea Water | B |
| Sodium Bisulfate, 10% | C |
| Sodium Chloride, 10% | C |
| Sodium Hypochlorite, 5% | C |
| Sodium Thiosulfate, 20% | A |
| Water, Deionized | A |

| Fuels | Rating |
|---|---|
| ASTM Fuel A | A |
| ASTM Fuel B | C |
| ASTM Fuel C | C |
| Diesel Fuel | B |
| Gasoline, Premium | C |
| Gasohol (10-15% Methanol) | C |
| Jet Fuel, JP-4 | A |
| Kerosene | A |

| Oils | Rating |
|---|---|
| ASTM Oil #1 | A |
| ASTM Oil #2 | A |
| ASTM Oil #3 | A |
| Brake Fluid (ATE or ATS) | C |
| Gear Box Oil (SAE 90) | A |
| Hydraulic Fluid | C |
| Hydraulic/Water Emulsion | C |
| Mineral Oil | A |
| Motor Oil | A |
| Parafin Oil | A |
| Petroleum (Texas Sour Crude) | A |
| Power Steering Fluid | B |
| Skydrol 500 Oil | C |
| Transmission Oil A | A |

| Greases | Rating |
|---|---|
| Calcium Grease | B |
| Sodium Grease | B |
| Teflon Grease | A |

| Miscellaneous | Rating |
|---|---|
| Dioctyl Phthalate (DOP) | A |
| Ethylene Chloride | C |
| Ethylene Dichloride | C |
| Ethylene GlycoWater 50/50 | C |
| Household Cleaner | B |
| Naptha | A |
| Silage (Silo) Juice | C |
| Natural Perspiration | B |
| Tincture of Iodine | C |
| Tricresyl Phosphate | C |

| Solvents | Rating |
|---|---|
| Acetone | C |
| Aniline | C |
| Benzene | C |
| Benzyl Alcohol | C |
| Butane | C |
| Butyl Acetate | C |
| Butyl Alcohol | C |
| Carbon Tetrachloride | C |
| Chlorobenzane | C |
| Chloroform | C |
| Cyclohexane | C |
| Ethanol | C |
| Ether | C |
| Ethyl Acetate | C |
| Freon 11, 12, 22 | C |
| Freon 113 | A |
| Glycerine, Glycerol, Glycol | A |
| Heptane | B |
| Hexane | C |
| Isopropyl Alcohol | C |
| Methanol | C |
| Methyl Acetate | C |
| Methyl Ethyl Ketone | C |
| Methyl Glycol | C |
| Methylene Chloride | C |
| N-Methyl Pyrrolidone | C |
| Perchloroethylene | C |
| Pyridine | C |
| Turpentine | A |
| Tetrachloroethylene | C |
| Tetrahydrofuran | C |
| Toluene | C |
| Trichloroethylene | C |
| Xylene | C |

**Rating Key**

**A - Fluid has little or no effect**

**B - Fluid has minor to moderate effect**

**C - Fluid has severe effect**

# Frequently Asked Questions

**Q** *I will be using Eagle® Belting in a high humidity environment. Will this affect the life of the belting?*

**A** High humidity will have some effect, although not believed to be significant, on the belt life.

**Q** *I have an application involving 200°F/93°C temperature. Can I use your polyurethane belting?*

**A** Our Eagle polyurethane products are usually limited to 150°F/66°C (see Technical Data for details). At higher temperatures the polyurethane softens and loses strength, resulting in excessive stretch. However, Fenner Drives' PowerTwist Plus® should be considered as an option.

**Q** *My application involves washdown. What effect will it have on the belt?*

**A** Polyurethane is resistant to water and many industrial chemicals, but not resistant to all. Consult the Chemical Resistance Chart on page 26 or contact Fenner Drives Applications Engineering group with the contaminants present and we will make a recommendation.

**Q** *The standard profiles shown do not appear to suit my needs. Do you make special profiles?*

**A** Yes! At Fenner Drives, we welcome the opportunity. Contact Fenner Drives Applications Engineering group at ae@fennerdrives.com for assistance.

**Q** *Are the Polyurethane and Polyester belting products RoHS compliant?*

**A** Yes. All of the Eagle Polyurethane and Polyester Belting products are RoHS compliant.

**Q** *I plan on using a B/17 section polyurethane belt. Will your belt fit pulleys that I can buy from numerous power transmission distributors?*

**A** Yes. All of our "classical" polyurethane belts, i.e. Z/10, A/13, B/17, C/22 and D/32, are designed to fit RMA/BS/DIN/ISO compliant pulleys.

**Q** *Why can't I butt weld your reinforced polyurethane belting?*

**A** You can, but it will be necessary to drill back the reinforcement. Follow butt welding instructions available at www.fennerdrives.com.

**Q** *Do I need some take-up adjustment when using your polyurethane belts?*

**A** When using non-reinforced polyurethane belting, take-up is not required. However, all reinforced type belting does require take-up. One good option is our T-Max Belt & Chain Tensioner® with a PowerMax™ Idler Pulley.

**Q** *On my conveying application, the product being moved could occasionally accumulate. What belt do you recommend for this?*

**A** Our Eagle Green 89T with its textured surface provides a lower coefficient of friction, ideal for applications where product accumulation can occur.

*For any questions about our extensive line of products, just call 1-800-243-3374 or +44 (0)870 757 7007 and your Inside Sales Specialist will help you.*

# Count on Fenner Drives.

## *We've got the right product for your application.*

PowerTwist Plus V-BELTS

SUPER T LINK SP WEDGE BELTS

NU T LINK V-BELTS

Trantorque Keyless Bushings

B-LOC KEYLESS BUSHINGS

EAGLE POLYURETHANE BELTING & O-RINGS

T-MAX BELT & CHAIN TENSIONERS

PowerMax PULLEYS & IDLERS

Trackstar UHMW BELT & CHAIN GUIDES

## *Visit us at www.fennerdrives.com*

**Fenner Drives is a proven leader in the design and manufacture of problem-solving power transmission and motion transfer components. Recognized widely for our expertise and innovation in manufacturing technology, we consistently blend reliability, quality and value in our products. As part of our commitment to provide unsurpassed technical support and service, we maintain extensive engineering, development and testing facilities.**

Fenner Drives®


**US**

**www.fennerdrives.com**
**TEL: +1-800-243-3374**
**TEL: +1-717-665-2421**
**FAX: +1-717-665-2649**

**UK**

**www.fennerdrives.com**
**TEL: +44 (0)870 757 7007**
**TEL: +44 (0)1924 482 470**
**FAX: +44 (0)1924 482 471**


Information subject to change without prior notification. Visit www.fennerdrives.com/catalogs for the most current information.