WHERE IDEAS + ACTION CONNECT

WE ARE APACHE ... AN ORGANIZATION RUN BY HARD-WORKING PEOPLE DEDICATED TO HELPING YOU SUCCEED. Our goal is to work as your partner to add value to your bottom line — whether it’s providing a product off the shelf or developing a custom solution. We’re committed to delivering the best quality products and service, anytime and anywhere.

After more than fifty years in business, we’ve grown from a small Midwestern distributor to a highly driven, global organization providing the belts, hoses, and cut and molded rubber products that you depend on every day to keep your business moving forward.

We’ve done it by minimizing our customers’ downtime. We source solutions from around the globe. We develop smarter, stronger, tougher products – to exact specifications – for applications in oil and gas, agriculture, package handling, mining, construction, food processing and more.

No matter what the industry, the key is consistent quality. So we are always on the job. We always test our products. And we always stand behind them – 100%.
OUR HIGHLY TRAINED AND DEDICATED SPECIALISTS fabricate essentially any belt configuration to meet a wide range of applications. That’s value that translates into longer run times and leaner operations.

Apache offers lightweight belting for package handling, food handling, and assembly line production. Versatile, strong, and hardworking belt products designed specifically to meet individual application needs.

We also have a vast selection of heavy-duty belting products with a broad range of tension ratings and cover compounds to handle a wide variety of products. Our belts are designed for applications requiring resistance to: extreme temperatures, oil, hot asphalt, chemicals, grease, animal fat, impact, tearing, high speeds, static build-up, combustion, abrasion, and severe weather conditions.

We have the inventory to meet your immediate needs and the ability to quickly produce fabricated belts to solve your particular material-handling problem.

OUR CONVEYOR BELTING PRODUCTS INCLUDE:
- Industrial belting
- Heavy-duty belting
- Lightweight belting
- Food grade belting
- Grain handling belt
- Incline belting
- High heat/oil service belts
- PVC/RMV belts
- Thermoplastic/monofilament belting
- Transmission belts
- Package handling belts
- Cleated belting
- Endless belting
- Longitudinal splices
- Road-away milling belts
- Rock Chucker™ belts
- Vanner edges
- V-guides
- Chevron cleated belting
- DUROWALL™ and PAC-WALL sidewall belting
- Hole punching
- Perforating
- Mechanical fasteners

SOME COMPANIES MEET EXPECTATIONS
WE SURPASS THEM

QUALITY
NOTHING SHIPS FROM OUR ISO-CERTIFIED FACILITIES WITHOUT BEING INSPECTED — TWICE. FIRST WE INSPECT THE RAW MATERIAL, AND THEN WE INSPECT THE FINISHED PRODUCT.

TOUGH
WE BUILD OUR BELTS TOUGH. OUR HEAVY-DUTY AND LIGHTWEIGHT BELTS ARE DESIGNED TO THRIVE IN EXTREME CONDITIONS AND DEMANDING APPLICATIONS.

PROVEN
OUR HIGHLY ENGINEERED BELTS ARE FIELD-PROVEN. THEY ARE TESTED AND TESTED AGAIN TO ENSURE THEY EXCEED OEM STANDARDS.

SMART
EVERYTHING WE SELL TODAY IS ENGINEERED TO GO THE EXTRA MILE. BECAUSE EFFICIENCY IS SMART.

CUSTOM BELT FABRICATION
Our product experts can go on-site to offer options and design application-specific belting solutions. We’ll recommend the flat or fabricated belt specification to provide the ultimate results for the best value. Our trained and highly experienced technicians will build the solution from any compound – rubber, PVC, urethane – and in any configuration. Put our experts to work for you.
EXPERT ON-SITE SERVICE

Answers — When you need them. Whatever it takes. Apache leads the industry in heavy-duty and lightweight belting solutions. Our industrial services division is also available for on-site consultation, installation, maintenance, and repair. With an average of 20 years of experience per technician, they’ve seen it all and are prepared to offer you effective solutions!

On-site services:
- 24/7 service
- Turnkey installations
- Scheduled preventative maintenance
- Heavy-duty belt installations
- Lightweight & food grade belt installations
- Vulcanization or mechanical fasteners
- Conveyor component installations
- On-site pulley lagging
- Sidewall belt installation or repair
- Bucket elevator installation or repair
- Preventative maintenance inspections

INSTALLATION SERVICES
Our installation service teams are flexible to meet your timetable, and turn-key installations are available. Our trained team installs, repairs, and vulcanizes all belts, conveyor components, sidewalls, elevator buckets, and more. To ensure optimal performance and safety, we do it quickly and correctly.

Belt Installation. We are equipped with versatile presses that allow us to change a belt out with minimal disruption to the customer. Whether it's installing a 50-foot or 1,000-foot roll — 100-feet in the air or 100-feet underground — we can do what you need!

Vulcanization. On-site vulcanization makes it possible for companies to use endless belts when required or preferred. We specialize in vulcanized splices, and will perform vulcanization in any weather condition or location.

Belt lacing and mechanical fasteners. We’re experts in splicing technologies and techniques, and will provide you with the right splice for your application.

Elevator buckets. Our team can install new, complete elevator belts, or replace buckets. We also provide preventative maintenance inspections on bucket elevator systems.

MAINTENANCE & REPAIR
Breakdowns cost time and money, so the Apache Industrial Services team offers 24/7 emergency service. When a repair or maintenance is needed, or if a system goes down, we’re there. We work weekends to minimize downtime during weekday production schedules. Unforeseen belt failures or breakdowns happen. Make us your first call to get your system back up and running — quickly!

Scheduled preventative maintenance is your best defense against belt failure and unnecessary downtime. Our qualified and skilled technicians are OSHA-trained and MSHA certified. They are insured and licensed, and their knowledge of conveyor systems enables them to keep your customers up and running. With regular inspections, our specialists can help avoid breakdowns by detecting problems before they occur.

Complete belting and conveyor system inspections. During periodic maintenance, our technicians inspect belts for stress and check the vulcanized and mechanical splices, ensuring they are in good shape and performing correctly. We make suggestions to fix items or components that could cause premature wear or contribute to a future failure — like worn bearings, pulleys, or idlers. We also ensure the belt is tracking correctly over the conveyor system.

Conveyor component re-assembly and adjustment. Minor adjustments to conveyor components can be made during inspection. If a belt is not tracking correctly, sometimes we can fix it with just a slight adjustment to the conveyor. We also adjust tail pulleys, idlers, and rollers. We understand conveyors and we know what causes trouble for belts!

Call us for 24/7 emergency maintenance at 800.553.5455 or to schedule an installation or preventative maintenance.

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**LIGHTWEIGHT BELTING**

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**VOLTA ABBREVIATION KEY**

- ACR = Aramid Cord Reinforced
- B = Blue
- CER = Cover Embossed Bottom
- CT = Crescent Top
- DD = DualDrive
- DDSP = DualDrive Small Pulley
- E = Embossed
- F = Flat
- G = Gray
- H = Hard Durameter (Polyester Compound)
- ITE = Impression Top Oval
- IT-10 = Impression Top Round
- L = Light Temperature
- LT = Low Temperature
- M = Medium Durameter (TPE Compound)
- MC = Meal-Clad
- NF = Narrow Flange
- R = Reinforced
- S = SuperDrive™
- SP = Spike Top
- ST = Sticky Top
- TPE = Thermoplastic Elastomers
- W = White/Cream
- Z = Dark Green

**WARNING:** Cancer and Reproductive Harm—www.P65Warnings.ca.gov
**DESCRIPTION**

**ABBREVIATION**

- PVC = Poly Vinyl Chloride

**PRODUCT DIRECTORY**

**PRODUCT**

**PD1**

**SPEC II PART II DESCRIPTION PAGE II**

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**PRODUCT**

**PD1**

**SPEC II PART II DESCRIPTION PAGE II**

---
The Apache has lightweight belting for package handling, food handling, and assembly line production. Versatile, strong, and hardworking belting products designed specifically to meet individual application needs.
BELT CONSTRUCTION

We offer the industry’s broadest range of lightweight belting specifications and fabricated products:

- Interwoven polyester with PVC and polyurethane covers
- European-style PVC and polyurethane, with spun polyester and polyester monofilament carcasses to fit specific application needs
- Conventional rubber
- Profile top covers for all incline needs
- Textured bottom covers for additional gripping power on pulleys

### HANDLING FOOD

Strong, lightweight, and easy to handle, these belts are designed for use in a variety of food processing applications. The polyester monofilament carcass provides great tracking, with excellent flexibility and lace holding ability. A premium, lightweight product that is extremely versatile.

### FOOD HANDLING

- This belt is approved by the FDA and the EU for use in food processing applications.
- Suitable for a wide range of applications, including food processing, bakery, and candy manufacturing.
- Light oil resistance makes these belts an option for some industrial applications as well.

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<th>SPEC</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
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<td>2-PLY 100# POLYESTER MONOFILAMENT WHITE RMV PEBBLETOP COVER X BARE ANTI-STATIC</td>
<td>20103870</td>
<td>14°F to 180°F</td>
<td>0.071&quot;</td>
<td>0.029</td>
<td>1&quot;</td>
<td>FDA, EU</td>
<td>UC50 Clipper®, RT Alligator®, RS62 Staple</td>
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### DESCRIPTION ABBREVIATION KEY

- **EU** = European Union
- **FDA** = Food and Drug Administration
- **RMV** = Rubber Modified Vinyl
- **PVC** = Poly Vinyl Chloride
- **PIW** = Pounds per inch wide

Although the FDA and EU regulatory systems have similar objectives, their systems of operation vary. Approval of one does not equal approval by the other.
Used in many food packaging, baking, and candy applications. Light oil resistance makes this belt an option for some industrial applications as well. Because these products are thermoplastic, they can be easily finger spliced.

The preferred belting style in most applications in today's food industries, including candy & confectionery, baking, fruit & vegetables, pickles, canning, and meat & poultry processing. The lightweight, low friction bottom make these among the most efficient belts on the market. They are also commonly used in industrial applications when a non-marking or a light-colored, abrasion resistant belt is required.

This 2-ply cross-rigid, food approved belt has a smooth, dark blue Hytrel cover which offers superior release— making it a perfect choice for bakery and confectionery applications such as dough handling and cooling tunnels. Belt can be steam cleaned, and resists flex fatigue from running over very small pulleys.

This belt is used primarily in conveyors and food processing applications.

Fast becoming a favorite in the snack food and confectionery industries, this belt offers a unique belt carcass that resists edge fraying.

Silicone characteristics of this belt give it an easy clean, non-cracking surface for enhanced hygiene, and is non-absorbent with oil and grease resistance. This belt is preferred in a wide variety of applications, especially those involving hot, sticky products requiring good release characteristics.

Popular and versatile belts for a variety of food processing applications. Can wrap small pulleys. FDA approved and USDA accepted.
### Lightweight Belting

**Description Abbreviation Key**

<table>
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<th>FDA</th>
<th>USDA</th>
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**Key**

- **ABBREVIATION**
  - LIGHTWEIGHT BELTING
  - FOOD HANDLING
  - FOOD HANDLING

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#### LIGHTWEIGHT BELTING

**Agriculture**

- United States
- USDA

**USDA** = United States Department of Agriculture

**Chloride**

- PVC

**Administration and Drug**

- FDA

**WARNING:** Cancer and Reproductive Harm–www.P65Warnings.ca.gov

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<td>8”</td>
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<td>UX5 Clipper®, R7 Alligator®, RS525 Staple</td>
<td>ZipLink Splice</td>
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- 3-Ply 70# Polyester White Nitrile Cover X Friction

- A light and versatile food grade belt with traditional white nitrile covers to withstand the effects of oil, grease, and fats. Can wrap a 3” diameter pulley. FDA approved and USDA accepted.

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- 3-Ply 90# Polyester White Nitrile Cover X Friction

- Popular belt for a wide variety of food grade applications. Nitrile covers offer excellent resistance to oil, grease, and fats. FDA approved and USDA accepted.

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- 3-Ply 100# Polyester White Nitrile Cover X Friction

- Design features a smooth, white nitrile cover on a polyester monofilament spiral mesh carcass. The ZipLink design eliminates mechanical lacing and replaces time-consuming, costly, vulcanized endless splices. Features a longer service life due to its “weak link”. The smooth nitrile cover offers good cut and abrasion resistance, as well as excellent oil resistance. Troughable and easy to track, this is an ideal belt for food and oil applications.

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- 3-Ply 105# Polyester White Nitrile Cover X Friction

- Thicker white nitrile top cover to better withstand abuse and the effects of oil, grease, and fats in tougher applications. FDA approved and USDA accepted.

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<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>PULLEY ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPEC# 2010419</strong></td>
<td>0°F to 250°F</td>
<td>0.14”</td>
<td>0.081</td>
<td>3”</td>
<td>FDA, USDA</td>
<td>UX5 Clipper®, R5 Alligator®, RS525 Staple</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
</tr>
</tbody>
</table>

- 3-Ply 110# Polyester White Nitrile Cover X Friction

- Excellent heavy-duty food grade belt, ideal for handling bulk foods such as salt, sugar, and grain. Good elevator belt with anti-static properties, and low temperature rating.

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART#</th>
<th>TEMP</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>PULLEY ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPEC# 2010420</strong></td>
<td>0°F to 250°F</td>
<td>0.166”</td>
<td>0.071</td>
<td>3”</td>
<td>FDA, USDA</td>
<td>UX5 Clipper®, R7 Alligator®, RS525 Staple</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
</tr>
</tbody>
</table>

- 3-Ply 150# Polyester White Nitrile Cover X Friction

- Nitrile cover offers excellent resistance to oil, grease, and fats. Popular for sorting lines and tomato processing. FDA approved and USDA accepted.

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART#</th>
<th>TEMP</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>PULLEY ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPEC# 2010421</strong></td>
<td>0°F to 250°F</td>
<td>0.197”</td>
<td>0.097</td>
<td>4”</td>
<td>FDA, USDA</td>
<td>UX5 Clipper®, R5 Alligator®, RS525 Staple</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
</tr>
</tbody>
</table>

- 3-Ply 220# Polyester White Nitrile Cover X Friction

- This belt features a smooth, white nitrile cover on a polyester monofilament spiral mesh carcass. The ZipLink design eliminates mechanical lacing and replaces time-consuming, costly, vulcanized endless splices. Features a longer service life due to its “weak link”. The smooth nitrile cover offers good cut and abrasion resistance, as well as excellent oil resistance. Troughable and easy to track, this is an ideal belt for food and oil applications.

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART#</th>
<th>TEMP</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>PULLEY ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPEC# 2010422</strong></td>
<td>0°F to 250°F</td>
<td>0.146”</td>
<td>0.081</td>
<td>3”</td>
<td>FDA, USDA</td>
<td>UX5 Clipper®, R5 Alligator®, RS525 Staple</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
</tr>
</tbody>
</table>

- 3-Ply 260# Polyester White Nitrile Cover X Friction

- Thicker white nitrile top cover to better withstand abuse and the effects of oil, grease, and fats in tougher applications. FDA approved and USDA accepted.

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART#</th>
<th>TEMP</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>PULLEY ACCEPTED</th>
<th>RECOMMENDED LACING</th>
<th>MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPEC# 2010423</strong></td>
<td>0°F to 250°F</td>
<td>0.196”</td>
<td>0.097</td>
<td>4”</td>
<td>FDA, USDA</td>
<td>UX5 Clipper®, R5 Alligator®, RS525 Staple</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
<td>ZipLink Splice</td>
</tr>
</tbody>
</table>

- 3-Ply 300# Polyester White Nitrile Cover X Friction

- Excellent heavy-duty food grade belt, ideal for handling bulk foods such as salt, sugar, and grain. Good elevator belt with anti-static properties, and low temperature rating.
### Lightweight Belting

** Bên trong**

Belting is widely accepted in Europe. Though specifically designed for the sugar industry, it has proven to be a problem solver in various applications such as salt mining, cut glass, and chemical compatibility.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIL. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20104023</td>
<td>0°F to 250°F</td>
<td>0.060”</td>
<td>0.053</td>
<td>2.5”</td>
<td>FDA</td>
<td>U31 Clipper®, R7 Alligator®, R562 Staple</td>
<td></td>
</tr>
</tbody>
</table>

Excellent temperature range for both freezer and high-heat applications such as packaging, scales, and shrink tunnels.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIL. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>200404023</td>
<td>0°F to 250°F</td>
<td>0.35”</td>
<td>0.091</td>
<td>2”</td>
<td>FDA, USDA</td>
<td>U31 Clipper®, R7 Alligator®, R562 Staple</td>
<td></td>
</tr>
</tbody>
</table>

Nitrile rubber belt featuring a mini-cleat profile. Used in incline applications involving packaged meat and food processing, as well as where a more aggressive top cover is required.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIL. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20040404</td>
<td>0°F to 250°F</td>
<td>0.025”</td>
<td>0.065</td>
<td>2.5”</td>
<td>FDA, USDA</td>
<td>U31 Clipper®, R7 Alligator®, R562 Staple</td>
<td></td>
</tr>
</tbody>
</table>

Popular food grade belt for use in slicer inlines and where a textured cover provides better gripping characteristics. FDA approved and USDA accepted.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIL. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>200404044</td>
<td>0°F to 250°F</td>
<td>0.033”</td>
<td>0.055</td>
<td>2”</td>
<td>FDA</td>
<td>U31 Clipper®, R7 Alligator®, R562 Staple</td>
<td></td>
</tr>
</tbody>
</table>

Nitrile rubber impression top. Used in many food applications where a more aggressive top cover is required. Often used in bun slicers and other bread and bakery applications.

---

**Volta Belting**

Volta belting is tough, versatile, and easy to maintain. The homogeneous, no-ply construction eliminates the need to have edge capping and its non-absorbent material makes the belts bacteria-resistant and impenetrable by most chemicals. These advantages create a belt that performs well in a variety of food processing and general conveying environments.

### Volta Food Belt

The food processing industry's needs are broad and its requirements are stringent. For such challenging needs, Apache recommends the Volta homogeneous product line. These belts perform well in a variety of food processing environments. Cheese, poultry, meat, fish, seafood, fruits, vegetables, chocolates, snacks, potatoes, nuts, and bakery facilities are all great places for recommending this product. Volta belting is available in blue or cream, is FDA/USDA approved, and also 3A Dairy certified.

In these industries you will find a variety of applications, but some of the most popular include:

- Dicing equipment
- De-boning operations
- Dough return conveyors
- Dump and pack tables
- Inspection lines
- Knife edge transfer lines
- Lettuce washing machines
- Metal detectors
- Optical scanners
- Press machines
- Slicing/filleting applications
- Vegetable washing lines

Because these applications require a variety of specifications, this product line offers multiple covers and has a variety of fabrication options. The crescent top and spike top are ideal for chicken slicing lines. Cleated sidewall belts can carry any grouping of food product up most inclines. The meat-cleat and HRT (roofstop) profiles can be used to elevate the product and allow for runoff, as well as to hold the product in place on light inclines. The Volta homogeneous ITO-50 offers a low profile impression.

### Volta Food Belt Specifications

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>PULL FORCE</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIL. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>201001</td>
<td>2010</td>
<td>0°F to 140°F</td>
<td>8.4</td>
<td>15 mm</td>
<td>0.050</td>
<td>15”</td>
<td>FDA, USDA, EU, 3A Dairy</td>
<td>UCM36 Clipper®, R562 Staple</td>
</tr>
<tr>
<td>201002</td>
<td>2010</td>
<td>5°F to 140°F</td>
<td>6.4</td>
<td>15 mm</td>
<td>0.050</td>
<td>15”</td>
<td>FDA, USDA, EU, 3A Dairy</td>
<td>UCM36 Clipper®, R562 Staple</td>
</tr>
<tr>
<td>201003</td>
<td>2010</td>
<td>5°F to 140°F</td>
<td>22.4</td>
<td>20 mm</td>
<td>0.080</td>
<td>20”</td>
<td>FDA, USDA, EU, 3A Dairy</td>
<td>UCM36 Clipper®, R562 Staple</td>
</tr>
<tr>
<td>201004</td>
<td>2010</td>
<td>5°F to 140°F</td>
<td>6.4</td>
<td>15 mm</td>
<td>0.050</td>
<td>15”</td>
<td>FDA, USDA, EU, 3A Dairy</td>
<td>UCM36 Clipper®, R562 Staple</td>
</tr>
<tr>
<td>201005</td>
<td>2010</td>
<td>5°F to 140°F</td>
<td>22.4</td>
<td>20 mm</td>
<td>0.080</td>
<td>20”</td>
<td>FDA, USDA, EU, 3A Dairy</td>
<td>UCM36 Clipper®, R562 Staple</td>
</tr>
</tbody>
</table>

Volta homogeneous Cream Polyester Smooth. Smooth continued on p. 22.
High-tech custom blend of polymers provides cut resistance and flexibility. These belts are truly homogeneous, with no plies to separate or carcass yarns to fray. A standard in the meat and poultry industry, and in several baking applications.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>FULL-PULL PRETENSION</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
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</thead>
<tbody>
<tr>
<td>20102008</td>
<td>6.2</td>
<td>-20°F to 140°F</td>
<td>2 mm</td>
<td>0.040</td>
<td>1.987&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
<tr>
<td>20102007</td>
<td>9.8</td>
<td>-20°F to 140°F</td>
<td>3 mm</td>
<td>0.060</td>
<td>3.5&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
<tr>
<td>20102004</td>
<td>8.8</td>
<td>-20°F to 140°F</td>
<td>2 mm</td>
<td>0.040</td>
<td>1.987&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
<tr>
<td>20102005</td>
<td>10.1</td>
<td>-20°F to 140°F</td>
<td>3 mm</td>
<td>0.060</td>
<td>3.5&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
<tr>
<td>20102008</td>
<td>13.5</td>
<td>-20°F to 140°F</td>
<td>4 mm</td>
<td>0.080</td>
<td>2.375&quot;</td>
<td>FDA, USDA, EU</td>
<td>U2 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
<tr>
<td>20102009</td>
<td>16.9</td>
<td>-20°F to 140°F</td>
<td>5 mm</td>
<td>0.100</td>
<td>3.125&quot;</td>
<td>FDA, USDA, EU</td>
<td>U4 Clipper®, R27 Alligator®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
</tbody>
</table>

High-tech custom blend of polymers provides cut resistance and flexibility. These belts are truly homogeneous, with no plies to separate or carcass yarns to fray. A standard in the meat and poultry industry, and in several baking applications.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>FULL-PULL PRETENSION</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20102010</td>
<td>4.5</td>
<td>-20°F to 140°F</td>
<td>2 mm</td>
<td>0.040</td>
<td>1.987&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
</tbody>
</table>

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<tr>
<th>SPEC#</th>
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<th>FULL-PULL PRETENSION</th>
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<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20102020</td>
<td>20.25</td>
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<td>6 mm</td>
<td>0.120</td>
<td>2.625&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
<tr>
<td>20102021</td>
<td>27.2</td>
<td>-20°F to 140°F</td>
<td>8 mm</td>
<td>0.160</td>
<td>4.5&quot;</td>
<td>FDA, USDA, EU</td>
<td>US5 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
</tbody>
</table>

High-tech custom blend of polymers provides cut resistance and flexibility. These belts are truly homogeneous, with no plies to separate or carcass yarns to fray. A standard in the meat and poultry industry, and in several baking applications.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>FULL-PULL PRETENSION</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20102021</td>
<td>24.5</td>
<td>-20°F to 140°F</td>
<td>4 mm</td>
<td>0.080</td>
<td>2.375&quot;</td>
<td>FDA, USDA, EU</td>
<td>U2 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
</tbody>
</table>

High-tech custom blend of polymers provides cut resistance and flexibility. These belts are truly homogeneous, with no plies to separate or carcass yarns to fray. A standard in the meat and poultry industry, and in several baking applications.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>FULL-PULL PRETENSION</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20102020</td>
<td>19.6</td>
<td>-20°F to 140°F</td>
<td>2.5 mm</td>
<td>0.044</td>
<td>1.437&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
</tbody>
</table>

High-tech custom blend of polymers provides cut resistance and flexibility. A fabric bottom provides lower stretch than non-reinforced belts, and the top side has a deep pebble top impression for better grip and/ or release. Used in many food applications.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>FULL-PULL PRETENSION</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>ACCEPTED</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20102021</td>
<td>25.2</td>
<td>-20°F to 140°F</td>
<td>3 mm</td>
<td>0.063</td>
<td>1.375&quot;</td>
<td>FDA, USDA, EU</td>
<td>US3 Clipper®, R515 Staple</td>
<td>R562 Staple</td>
</tr>
</tbody>
</table>
High-tech custom blend of polymers provides cut resistance and flexibility. Bottom side of belt is embossed for easy sliding on the conveyor bed, and the top side has a deep pebble top impression for better release. Used in many food applications.

High-tech custom blend of polymers provides cut resistance and flexibility. A fabric bottom provides lower friction than non-reinforced belts, and the top side has a low roughtop impression for better grip and release. Used in many food applications.

High-tech custom blend of polymers provides cut resistance and flexibility. A fabric bottom provides lower friction than non-reinforced belts, and the top side has a low roughtop impression for better grip and release. Used in many food applications.

High-tech custom blend of polymers provides cut resistance and flexibility. These belts are truly homogeneous, with no plan to separate or carcass yarns to fray. A standard in the meat and poultry industry.

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High-tech custom blend of polymers provides cut resistance and flexibility. These belts are truly homogeneous, with no plan to separate or carcass yarns to fray. A standard in the meat and poultry industry.
**VOLTA POSITIVE DRIVE BELTS**

VOLTA positive drive belts are manufactured with materials resistant to cuts and abrasion, thus eliminating places where bacteria can harbor and grow. This makes for easy and efficient cleaning, meaning you save on labor costs and production downtime.

**POSITIVE DRIVE BELT FEATURES INCLUDE:**
- Exuded, integral teeth prevent slippage of belt
- Smooth homogeneous surface for low bacteria counts, longer shelf life, and odor resistance
- High flexibility extends operating life
- Non-sticking smooth or impression top for easy product release

**POSITIVE DRIVE BELTS ARE AVAILABLE IN THE FOLLOWING TYPES:**

**DUALDRIVE**
- Replaces modular belts with minimal retrofit
- No seams, belt extruded in 100” straight lengths
- May be used as cleats when teeth face up

**DUALDRIVE SP (SMALL PULLEY)**
- Provides tight transfer of product between conveyors
- Requires lighter conveyor construction

**SUPERDRIVE™**
- Utilized primarily on newer OEM equipment
- One solid lug in center of the conveyor

**SPEC#** | **PART#** | **TEMP.** | **THICKNESS** | **WEIGHT** | **MIN. PULLEY** | **ACCEPTED** | **RECOMMENDED LACING**
--- | --- | --- | --- | --- | --- | --- | ---
20102056 | 5°F to 140°F | 3 mm | 0.075 | 3.25” | FDA, USDA, EU, 3A Dairy | USIP Clipper®, RS125 Staple | These positive drive belts are replacing many plastic modular belts because their construction is more resistant to bacteria. This high-tech custom blend of polymers provides characteristics such as cut resistance and flexibility. These belts are truly homogeneous, with no planes to separate or carcass yarns to fray. A standard in the meat and poultry industry, and in several baking applications.

See p. 79 for VOLTA positive drive sprockets and pulleys.
The Volta belt for your special application. From soft belts with high grip, to hard surfaces that resist cutting, our belts are designed to meet some of the most demanding requirements and challenging applications in the field.

**DESCRIPTION OF MATERIALS**

- Do not absorb industrial oils, fluids, or chemicals
- Low coefficient of friction for slider bed applications
- Harder durometer covers are available for more abrasion resistance

**THESE BELTS ARE MOST SUITABLE FOR CONVEYING CERAMICS, GLASS, CARDBOARD, METAL PARTS, RECYCLING, AND MANY OTHERS, AND ARE COMMONLY USED IN THESE APPLICATIONS:**

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART</th>
<th>TEM</th>
<th>FULL FLEX INFL (PIW)</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULL</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>VF 02</td>
<td>01</td>
<td>-20°F to 140°F</td>
<td>39</td>
<td>3.5 mm</td>
<td>0.657</td>
<td>2&quot;</td>
<td>U2 Clipper®, RS25 Staple</td>
</tr>
</tbody>
</table>

High-tech custom blend of polymers provides characteristics such as higher strength due to the reinforced fabric carcass, cut resistance, and flexibility. These belts are ideal for high abrasion industrial service applications.

**SPECIFICATION TABLE**

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART</th>
<th>TEM</th>
<th>FULL FLEX INFL (PIW)</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULL</th>
<th>RECOMMENDED LACING</th>
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<tr>
<td>VF 02</td>
<td>01</td>
<td>-20°F to 140°F</td>
<td>39</td>
<td>3.5 mm</td>
<td>0.657</td>
<td>2&quot;</td>
<td>U2 Clipper®, RS25 Staple</td>
</tr>
</tbody>
</table>

High-tech custom blend of polymers provides characteristics such as higher strength due to the reinforced fabric carcass, cut resistance, and flexibility. These belts are ideal for high abrasion industrial service applications.
### Lightweight Handling

#### Package Handling

**Description Abbreviation Key**
- **PVC** = Poly Vinyl Chloride
- **RMV** = Rubber Modified Vinyl
- **SBR** = Styrene Butadiene Rubber

**Material Properties**
- SBR has excellent abrasion resistance and low temperature properties.

**Material Overview**
- A tightly woven blend of cotton and polyester fabric, this non-marking tan product is a versatile and economical choice for package handling, production/assembly lines, and conveyors.
- Versatile belt with oil, grease, and fat resistant covers. Popular for conveying a variety of products such as food stuffs and metal parts. Belt is FDA approved.

### Table of Lightweight Belting

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
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<tbody>
<tr>
<td><strong>3-Ply 1680 SPUN POLYESTER BLACK PVC FRICTION X BRUSHED</strong></td>
<td>2010042</td>
<td>-20°F to 180°F</td>
<td>0.125”</td>
<td>0.070</td>
<td>2”</td>
<td>UX1 Clipper®, #7 Alligator®, RS125 Staple</td>
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<tr>
<td><strong>3-Ply 1681 SPUN POLYESTER BLACK PVC FRICTION X BRUSHED</strong></td>
<td>2010043</td>
<td>-20°F to 180°F</td>
<td>0.127”</td>
<td>0.072</td>
<td>4”</td>
<td>UX1 Clipper®, #7 Alligator®, RS125 Staple</td>
</tr>
</tbody>
</table>

**Summary**
- Package handling belts are designed for light and medium weight conveying. Nitrile compounds make this construction popular for oily conditions, particularly metal parts, and for carrying tapes for folding machines. It is oil, grease, and chemical resistant.

---

**Lightweight Belting**

**Warning:** Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)
**DESCRIPTION ABBREVIATION KEY**

**PVC** = Poly Vinyl Chloride  
**SBR** = Styrene Butadiene Rubber

**DESCRIPTION**  
**LIGHTWEIGHT BELTING**

---

**SPEC** | **PART#** | **TEMP** | **THICKNESS** | **WEIGHT** | **MIN. PULLEY** | **RECOMMENDED LACING**
---|---|---|---|---|---|---
**3-Ply 100# Polyester Black PVC Bare X Bare**
- 3112 | 2010415 | 0°F to 250°F | 0.081" | 0.63 | 3" | U12 Clipper®, #15 Alligator®, 3/16" Staple

This belt has long been the standard for a wide variety of conveyor applications including both slider/roller bed service. Popular for cart, package and parcel handling. Four plies have higher tension requirements and added durability.

---

**SPEC** | **PART#** | **TEMP** | **THICKNESS** | **WEIGHT** | **MIN. PULLEY** | **RECOMMENDED LACING**
---|---|---|---|---|---|---
**3-Ply 100# Polyester Monofilament Black PVC Bare X Bare**
- 3112 | 2010421 | -20°F to 250°F inner cover contact, -20°F to 250°F | 0.092" | 0.54 | 4" | U12 Clipper®, #15 Alligator®, 3/16" Staple

Designed for use where higher product temperatures are required and good release is needed. Used primarily in tire plants, this belt should also be considered for applications with uncured rubber and other sticky products. Note: Top cover is rated for 350°F however the entire belt is rated at 250°F.

---

**SPEC** | **PART#** | **TEMP** | **THICKNESS** | **WEIGHT** | **MIN. PULLEY** | **RECOMMENDED LACING**
---|---|---|---|---|---|---
**3-Ply 90# Cotton/Polyester White SBR Matte Cover X Bare**
- 3112 | 2010419 | -20°F to 180°F | 0.054 | 4" | U12 Clipper®, #15 Alligator®, 3/16" Staple

This belt has long been the standard for a wide variety of conveyor applications including both slider/roller bed service. Popular for cart, package and parcel handling. Four plies have higher tension requirements and added durability.

---

**SPEC** | **PART#** | **TEMP** | **THICKNESS** | **WEIGHT** | **MIN. PULLEY** | **RECOMMENDED LACING**
---|---|---|---|---|---|---
**3-Ply 100# Polyester Monofilament Black PVC Bare X Bare**
- 3112 | 2010427 | 20°F to 180°F | 0.030 | 1" | U12 Clipper®, #15 Alligator®, 3/16" Staple

This belt has long been the standard for a wide variety of conveyor applications including both slider/roller bed service. Popular for cart, package and parcel handling. Four plies have higher tension requirements and added durability.
**KEY ABBREVIATION DESCRIPTION**

- **LIGHTWEIGHT BELTING**

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART</th>
<th>TEMP</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
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<tr>
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<td>-9°F to 170°F</td>
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<tr>
<td>4159</td>
<td>24005272</td>
<td>20°F to 180°F</td>
<td>0.125”</td>
<td>0.075”</td>
<td>2”</td>
<td>#25 Alligator®, RS125 Staple</td>
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<tr>
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<tr>
<td>4161</td>
<td>2010470</td>
<td>0°F to 180°F</td>
<td>0.24”</td>
<td>0.12”</td>
<td>6”</td>
<td>U3 Clipper®, #27 Alligator®, RS152 Staple</td>
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<tr>
<td>4162</td>
<td>2010452</td>
<td>0°F to 250°F</td>
<td>0.140”</td>
<td>0.075”</td>
<td>2”</td>
<td>UX Clipper®, #7 Alligator®, RS152 Staple</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

- **Poly Vinyl Chloride (PVC)**

A premium urethane belt that utilizes two plies of cross-linked monofilament fabric. This belt is used in applications where a tough top cover is required to extend belt life. The pebbledtop cover offers release for oily parts. It is a proven performer in stamping applications carrying the blanks to the press.

- **Polyester Monofilament (PMF)**

- **Polyester Monofilament Clear PVC Hard Cover X Bare**

This belt features a smooth, blue carboxylated nitrile cover on a polyester monofilament spiral mesh carcass. The ZipLink design eliminates mechanical lace and replaces time consuming, costly, vulcanized belt marking.

- **Polyester Monofilament Clear PVC Heavy Cover X Bare**

This is a hard, premium PVC cover with a finish that reduces glare and minimizes belt marking.

- **Polyester Monofilament Clear PVC Heavy Cover X Bare Anti-Static**

This unique belt has two plies of polyester with EPDM skims for high temperatures. The Teflon® cover offers a highly durable dimpled cover with excellent release. Ideal for conveying hot, sticky products such as rubber, tapes, and plastic extrusions. (Belt not FDA approved.)

- **Polyester Monofilament Clear PVC Heavy Cover X Bare Anti-Static**

A hard, premium PVC cover with characteristics of urethane. Ideal for applications where extended belt life is needed and tough top covers are used.

- **Polyester Monofilament Clean PVC Hard Cover X Bare**

This belt features a smooth, blue carboxylated nitrile cover on a polyester monofilament spiral mesh carcass. The ZipLink design eliminates mechanical lace and replaces time consuming, costly, vulcanized belt marking. Ideal for metal stamping and other sharp parts applications.

- **Polyester Monofilament Clean PVC Heavy Cover X Bare**

A hard, premium PVC cover with a matte finish that reduces glare and minimizes belt marking.

- **Polyester Monofilament Clean PVC Heavy Cover X Bare Anti-Static**

A hard, premium PVC cover with a finish that reduces glare and minimizes belt marking.

- **Polyester Monofilament Clean PVC Cover X Bare**

A hard, premium PVC cover with characteristics of urethane. Ideal for applications where extended belt life is needed and tough top covers are used.

- **Polyester Monofilament Clean PVC Cover X Bare Anti-Static**

A hard, premium PVC cover with a matte finish that reduces glare and minimizes belt marking.

- **Polyester Monofilament Black Urethane Cover X Bare Anti-Static**

A hard, premium urethane cover with better abrasion resistance. Matte finish reduces glare and minimizes belt marking.

- **Polyester Monofilament Black Urethane Cover X Bare**

A hard, premium urethane cover provides excellent cut and abrasion resistance. With a smooth, satin finish it also reduces glare. Designed for optical scanner systems in recycling centers, this belt is also an ideal choice for metal stamping and other sharp parts applications.

- **Polyester Monofilament Flexible Urethane Cover X Bare**

This belt is a standard in many automotive stamping operations. Also highly recommended in many recycling plants and other abrasive jobs. Note: The 90# allows for both finger and welded seam splices.
LIGHTWEIGHT BELTING

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 150# POLYESTER BLACK PVC COVER X BRUSHED
5057  20105040  0°F to 180°F  0.25" 0.15  4" U3 Clipper®, R15 Alligator®, RS17 Staple

Very popular specification for package and parcel handling. Low coefficient of friction on cover surfaces for easy accumulation of products. Tough, low stretch, and excellent fastener and tracking properties.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 150# POLYESTER BLACK PVC COVER X BRUSHED
5058  20105041  0°F to 180°F  0.185" 0.107  3" U3 Clipper®, R15 Alligator®, RS17 Staple

Heavier-duty PVC belt proven for long wearing, high performance, and problem free material handling. Also popular as heavy-duty package and bulk product conveyor belt for both slider and roller bed conveyors.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 150# POLYESTER BLACK PVC COVER X COVER FIRE RETARDANT/STATIC CONDUCTIVE
5059  20105045  0°F to 180°F  0.16" 0.096  2" U3 Clipper®, R15 Alligator®

Commonly used for elevator belting in the feed and grain industries. Oil resistant, fire retardant and static conductive qualities. This belt will not mildew or rot, MSHA approved, moisture resistant, and has high bolt retention for bucket attachments.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 150# POLYESTER BLACK PVC COVER X BRUSHED
5060  20105050  0°F to 180°F  0.154" 0.092  2" U3 Clipper®, R15 Alligator®, RS17 Staple

Commonly used for elevator belting in the feed and grain industries. Oil resistant, fire retardant and static conductive qualities. This belt will not mildew or rot. MSHA approved, moisture resistant, and has high bolt retention for bucket attachments.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 150# POLYESTER BLACK PVC COVER X COVER FIRE RETARDANT/STATIC CONDUCTIVE
5061  20105051  0°F to 180°F  0.125" 0.073  2" U3 Clipper®, R15 Alligator®, RS17 Staple

Fire resistant, static conductive belt commonly used for elevator belting in the feed and grain industries. Features low stretch, trouble free operation, high bolt retention, and resistance to grain oils, fire, moisture, and mildew. MSHA approved.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 120# POLYESTER BLACK PVC COVER X BRUSHED
5050  20105040  0°F to 180°F  0.38" 0.225  2" U3 Clipper®, R15 Alligator®, RS17 Staple

Very popular specification for package and parcel handling. Low coefficient of friction on cover surfaces for easy accumulation of products. Tough, low stretch, and excellent fastener and tracking properties, with higher tension rating for heavier loads.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 200# POLYESTER BLACK PVC COVER X BRUSHED
5062  20105040  0°F to 180°F  0.286" 0.164  2" U3 Clipper®, #10 Alligator®, RS17 Staple

Commonly used for elevator belting in the feed and grain industries. Oil resistant, fire resistant and static conductive qualities. This belt will not mildew or rot, MSHA approved, moisture resistant, and has high bolt retention for bucket attachments.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 200# POLYESTER BLACK PVC COVER X COVER FIRE RETARDANT/STATIC CONDUCTIVE
5063  20105041  0°F to 180°F  0.225" 0.133  2" U3 Clipper®, #10 Alligator®, RS17 Staple

Fire resistant, static conductive belt commonly used for elevator belting in the feed and grain industries. Features low stretch, trouble free operation, high bolt retention, and resistance to grain oils, fire, moisture, and mildew. MSHA approved.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 80# POLYESTER BLACK PVC COVER X COVER FIRE RETARDANT/STATIC CONDUCTIVE
5070  20105040  0°F to 180°F  0.20" 0.121  2" U3 Clipper®, #7 Alligator®, RS17 Staple

Very popular specification for package and parcel handling. Low coefficient of friction on cover surfaces for easy accumulation of products. Tough, low stretch, and excellent fastener and tracking properties, with high stretch for roller bed and troughed applications. Characteristics include low stretch, high strength, and good fastener retention.

SPEC#  PART#  TEMP.  THICKNESS  WEIGHT (PIW)  MIN. PULLEY  RECOMMENDED LACING
INTERWOVEN 80# POLYESTER BLACK PVC COVER X COVER FIRE RETARDANT/STATIC CONDUCTIVE
5071  20105041  0°F to 180°F  0.181" 0.108  2" U3 Clipper®, #7 Alligator®, RS17 Staple

Very popular medium-duty PVC belt proven for long wearing, high performance, and problem free material handling. Ideal for a variety of slider/roller bed applications. Accommodates fertilizers, chemicals, and bulk materials. Characteristics include low stretch, high strength, and good fastener retention.
### PVC Belt Specifications

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
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</thead>
<tbody>
<tr>
<td>4163</td>
<td>20104160</td>
<td>0°F to 160°F</td>
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<td>20104163</td>
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<td>0.084</td>
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<tr>
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<td>20104326</td>
<td>20°F to 175°F</td>
<td>0.110”</td>
<td>0.053</td>
<td>2”</td>
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<tr>
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<td>20104328</td>
<td>20°F to 175°F</td>
<td>0.105”</td>
<td>0.053</td>
<td>2”</td>
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<tr>
<td>4340</td>
<td>20104340</td>
<td>-10°F to 195°F</td>
<td>0.155”</td>
<td>0.075</td>
<td>1.5”</td>
<td>Clipper®, #7 Alligator®, R525 Staple</td>
</tr>
</tbody>
</table>

### PVC Belt Key

| PVC | Poly Vinyl Chloride |

### PVC Description

- **Chloride**: PVC is a type of thermoplastic that is both flexible and durable. It is often used in applications where chemical resistance is important. PVC is widely used in plumbing, flooring, and furniture making due to its excellent resistance to chemicals and solvents.
- **Polyester**: Polyester is a synthetic fiber produced from the condensation polymerization of a diacid and a diol. It is known for its strength, durability, and resistance to wear and tear. Polyester is commonly used in clothing, upholstery, and various industrial applications.
- **Polyvinyl Chloride (PVC)**: PVC is a versatile thermoplastic that is widely used in a variety of applications due to its durability, rigidity, and resistance to chemicals. It is commonly used in plumbing, electrical insulation, and construction materials.

### PVC Belt Applications

- **Lightweight Belting**: This type of belting is designed for lighter loads and is ideal for applications where flexibility and ease of handling are important. Lightweight belting is often used in food processing, light manufacturing, and retail environments.
- **Medium-duty utility belts**: These belts are designed for moderate loads and are suitable for a wide range of applications, including industrial and agricultural settings. They are ideal for handling medium-sized loads and are flexible enough to negotiate small pulleys.
- **Heavy-duty belting**: This type of belting is designed for high-volume operations and is capable of handling heavy loads and high wear. Heavy-duty belting is used in large distribution centers and industrial applications where durability and load capacity are critical.

### PVC Belt Features

- **Herringbone pattern**: The herringbone pattern of alternating rows of solid PVC chevron profiles forms a cover capable of moving up inclines but designed in shapes that allow the belt to run smoothly on the conveyor return rollers. This pattern provides a strong, cross-rigid product that is flexible enough to negotiate small pulleys.
- **Specialty high friction tops**: These tops are used in difficult inclines, declines, or as brake or spacer belts. They can handle paperboard containers and some totes on inclines up to 45°. Specialty high friction tops are designed to provide strong gripping action even in dirty, dusty conditions.
- **V-runner premium PVC top cover**: This top cover utilizes longitudinal grooves to achieve an aggressive grip. It can be easily finger spliced resulting in top quality endless belts. In dirty and dusty conditions, occasional cleaning restores the gripping action.

### PVC Belt Characteristics

- **High resin PVC**: This material offers a premium cover compound that is easily fabricated using thermoweld and high frequency equipment. This compound also makes this belt an excellent alternative to similar rubber products. High resin PVC provides a premium cover compound that is easily fabricated using thermoweld and high frequency equipment. This compound also makes this belt an excellent alternative to similar rubber products.
- **Medium-duty utility PVC belt**: Designed for a wide variety of industrial and agricultural applications, this belt is made with premium soft durometer PVC covers. It handle paperboard containers and some totes on inclines up to 45°. Primarily effective in clean, dry environments. This belt is made with premium soft dunsmuir PVC covers.

### PVC Belt Uses

- **Agricultural applications**: The impression is deep enough to increase load capacity and very sturdy and aggressive, making it suitable for use in agricultural applications. The impression is deep enough to increase load capacity and very sturdy and aggressive, making it suitable for use in agricultural applications.
- **Chemical, fertilizer, and industrial applications**: The impression is deep enough to increase load capacity and very sturdy and aggressive, making it suitable for use in chemical, fertilizer, and industrial applications. The impression is deep enough to increase load capacity and very sturdy and aggressive, making it suitable for use in chemical, fertilizer, and industrial applications.

### PVC Belt Specifications

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
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<tbody>
<tr>
<td>4324</td>
<td>20104324</td>
<td>20°F to 180°F</td>
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<td>0.070</td>
<td>2”</td>
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<td>20104328</td>
<td>20°F to 175°F</td>
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<td>0.050</td>
<td>2”</td>
<td>Clipper®, #5 Alligator®, R525 Staple</td>
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<td>4340</td>
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<td>-10°F to 195°F</td>
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<td>0.039</td>
<td>1.18”</td>
<td>Clipper®, #7 Alligator®, R525 Staple</td>
</tr>
</tbody>
</table>

### PVC Belt Accessories

- **Pulley recommended lacing**: The recommended lacing for each belt is specified in the table. This information is crucial for ensuring the smooth operation of the belt on pulleys and rollers.

### PVC Belt Benefits

- **Longevity**: PVC belts are designed to last for many years with proper maintenance and care. They are resistant to chemicals and solvents, making them ideal for use in harsh environments.
- **Durability**: PVC belts are durable and can withstand high wear and tear, making them ideal for heavy-duty applications.
- **Cost-effectiveness**: PVC belts are relatively inexpensive compared to other types of belts, making them a cost-effective choice for a wide range of applications.
## Lightweight Belting

**PVC Belting**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
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<td>20104393</td>
<td>20°F to 180°F</td>
<td>0.150”</td>
<td>0.056</td>
<td>1.8&quot;</td>
<td>U2 Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Peaked top impression is used when more traction is called for, but a roughtop belt is too much. Popular in wood products and metal stamping.

**Butadiene Chloride PVC**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
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<td>0.152”</td>
<td>0.051</td>
<td>2&quot;</td>
<td>U2SP Clipper®</td>
<td>87 Alligator®</td>
</tr>
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</table>

Traditional quad (inverted diamond) pattern makes this polyester monofilament belt a great choice as an alternative to standard roughtops when a less aggressive cover is required. More easily cleaned, this belt is popular in a wide range of industrial applications. Thermoplastic elastomer allows for easy splicing and fabrication including cleats and V-guides.

**Styrene Chloride**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
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<td>20104383</td>
<td>-40°F to 250°F</td>
<td>0.297”</td>
<td>0.096</td>
<td>4”</td>
<td>U2 Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

This unique belt was designed with a square diamond, permanently anti-static, oil resistant cover that is ideal for box rail applications as well as sanding and woodworking machines.

**PVC Polyvinyl Chloride**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20104378</td>
<td>-40°F to 250°F</td>
<td>0.284”</td>
<td>0.106</td>
<td>3”</td>
<td>U2 Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Gum rubber roughtops have been a standard in paper industries as well as package handling. Soft pure gum cover provides a very aggressive and extended wear top cover. Still popular in some paperboard and box plant applications.

**Rubber**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4304</td>
<td>20°F to 250°F</td>
<td>0.28&quot;</td>
<td>0.10</td>
<td>2&quot;</td>
<td>U2SP Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Gum rubber roughtops have been a standard in paper industries as well as package handling. Soft pure gum cover provides a very aggressive and extended wear top cover. Still popular in some paperboard and box plant applications.

## Incline Belting

**PVC Belting**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20104377</td>
<td>20°F to 250°F</td>
<td>0.29&quot;</td>
<td>0.096</td>
<td>4”</td>
<td>U2 Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Gum rubber roughtops have been a standard in paper industries as well as package handling. Soft pure gum cover provides a very aggressive and extended wear top cover. Still popular in some paperboard and box plant applications.

**Butadiene Chloride PVC**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20104384</td>
<td>0°F to 250°F</td>
<td>0.310</td>
<td>0.110</td>
<td>2”</td>
<td>U2 Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Popular standard roughtop belt that can be used as pulley lagging. Features a deep, nonskid hemp impression roughtop surface that enables products to be conveyed on inclines and declines. Popular for strip lagging pulleys.

**Butadiene Chloride PVC**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20104388</td>
<td>0°F to 250°F</td>
<td>0.28”</td>
<td>0.10</td>
<td>2”</td>
<td>U2 Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

This belt features a blue carboxilated nitrile roughtop on a polyester monofilament spiral link mesh carcass. The ZipLink design eliminates mechanical lace and replaces time consuming, costly, sanitized endless splices. Features a longer service life due to no “weak link”. The roughtop cover offers excellent abrasion resistant properties. Popular for box board conveying.

**Rubber**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4305</td>
<td>-40°F to 250°F</td>
<td>0.34&quot;</td>
<td>0.126</td>
<td>3”</td>
<td>U2 Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Heavy-duty, non-marking roughtop belt that withstands the effects of oil, grease and abrasion. Popular for high wear applications for corrugated boxes and conversion applications.

**SBR Butadiene Rubber**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4303</td>
<td>0°F to 250°F</td>
<td>0.28&quot;</td>
<td>0.10</td>
<td>2”</td>
<td>U2SP Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Heavy-duty, non-marking roughtop belt that withstands the effects of oil, grease and abrasion. Popular for high wear applications for corrugated boxes and conversion applications.

### PVC Belting

**Polyvinyl Chloride**

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20104385</td>
<td>0°F to 250°F</td>
<td>0.28&quot;</td>
<td>0.10</td>
<td>2”</td>
<td>U2SP Clipper®</td>
<td>87 Alligator®</td>
</tr>
</tbody>
</table>

Heavy-duty, non-marking roughtop belt that withstands the effects of oil, grease and abrasion. Popular for high wear applications for corrugated boxes and conversion applications.
### LIGHTWEIGHT BELTING

**DESCRIPTION ABBREVIATION KEY**

- PVC = Poly Vinyl Chloride
- SBR = Styrene Butadiene Rubber

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PWI)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4345</td>
<td>2004346</td>
<td>20°F to 180°F</td>
<td>0.329&quot;</td>
<td>0.087</td>
<td>4&quot;</td>
<td>U2 Clipper®, #7 Alligator®, RS25 Staple</td>
</tr>
</tbody>
</table>

Soft, high grip top PVC cover with piled polyester monofilament carcass to wrap small pulley diameters and low stretch features.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PWI)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4350</td>
<td>2004350</td>
<td>-4°F to 140°F</td>
<td>0.333&quot;</td>
<td>0.075</td>
<td>4&quot;</td>
<td>U2 Clipper®, #7 Alligator®, RS25 Staple</td>
</tr>
</tbody>
</table>

PVC top cover popular in distribution/sorting centers. Unique sine wave cover is designed for low noise and allows the belt to run quieter on return idlers.

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PWI)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4319</td>
<td>2004310</td>
<td>-30°F to 212°F</td>
<td>0.291&quot;</td>
<td>0.089</td>
<td>4&quot;</td>
<td>#2 Clipper®, #25 Alligator®, RS25 Staple</td>
</tr>
</tbody>
</table>

One of the more aggressive roughtop belts on the market. Y-top can take corrugated packages up inclines as steep as 45°. For slick plastic tote applications this is a belt worth consideration. Excellent oil resistance.

<table>
<thead>
<tr>
<th>SPEC#</th>
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<th>THICKNESS</th>
<th>WEIGHT (PWI)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4310</td>
<td>2004311</td>
<td>10°F to 212°F</td>
<td>0.329&quot;</td>
<td>0.089</td>
<td>4&quot;</td>
<td>U2 Clipper®, #7 Alligator®, RS25 Staple</td>
</tr>
</tbody>
</table>

Soft gum rubber surface allows for exceptional gripping power to convey packages and totes in high incline and decline applications.

<table>
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<tr>
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<th>THICKNESS</th>
<th>WEIGHT (PWI)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4312</td>
<td>2004312</td>
<td>-30°F to 212°F</td>
<td>0.323&quot;</td>
<td>0.089</td>
<td>4&quot;</td>
<td>U2 Clipper®, #7 Alligator®, RS25 Staple</td>
</tr>
</tbody>
</table>

Profile features 1/4" tall high rubber nubs with Y notches for extra gripping power. Great for handling packages, plastic totes, and bagged goods.

<table>
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<tr>
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<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PWI)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4313</td>
<td>2004313</td>
<td>-40°F to 250°F</td>
<td>0.329&quot;</td>
<td>0.089</td>
<td>4&quot;</td>
<td>U2 Clipper®, #7 Alligator®, RS25 Staple</td>
</tr>
</tbody>
</table>

Sometimes referred to as “sewedge”, our tan non-marking diamond shaped profiled design has high coefficient of friction for exceptional gripping capabilities. Popular for cases, parcels, and bagged goods. It is also used for aftermarket belts for the US post office.

---

**WARNING:** Cancer and Reproductive Harm–www.P65Warnings.ca.gov
### Lightweight Belting

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4379</td>
<td>20104379</td>
<td>0°F to 250°F</td>
<td>0.032&quot;</td>
<td>0.125</td>
<td>4&quot;</td>
<td>ZipLink Splice</td>
</tr>
</tbody>
</table>

This belt features a high grip, tan, diamond profile on a polyester monofilament spiral mesh carcass. The ZipLink design eliminates mechanical lace and replaces time-consuming, costly, vulcanized endless splices. Features a longer service life due to no "weak link." The diamond top profile provides positive grip on steep inclines/declines. Troughable and easily tracked, this belt is also non-marking.

### Heavy-Duty Belting

Apache's heavy-duty belting is designed to excel under demanding conditions. Our belts handle applications requiring resistance to high temperature, oil, hot asphalt, chemicals, grease, animal fat, impact, tearing, high speeds, static build-up, combustion, and severe weather conditions.

<table>
<thead>
<tr>
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<th>TEMP.</th>
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<th>WEIGHT (PIW)</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4334</td>
<td>20104334</td>
<td>0°F to 250°F</td>
<td>0.281&quot;</td>
<td>0.090</td>
<td>3&quot;</td>
<td>U2 Clipper®, #15 Alligator®, RS125 Staple</td>
</tr>
</tbody>
</table>

Sometimes referred to as "wedgegrip," our diamond shaped profiled design has high coefficient of friction for exceptional gripping capabilities. Popular for cases, parcels, and bagged goods. It is also used for aftermarket belts for the US post office.

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>4334</td>
<td>20104375</td>
<td>-40°F to 250°F</td>
<td>0.36&quot;</td>
<td>0.133</td>
<td>3&quot;</td>
<td>U2 Clipper®, #15 Alligator®, RS187 Staple</td>
</tr>
</tbody>
</table>

Oval shaped nubs on top cover is a popular choice for high angle inclines and declines. The unique cover design prevents slippage of products, as well as cushioning protection for boxes, cartons, and packaged goods.

<table>
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<tr>
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<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>4379</td>
<td>20104379</td>
<td>0°F to 250°F</td>
<td>0.110&quot;</td>
<td>0.125</td>
<td>4&quot;</td>
<td>ZipLink Splice</td>
</tr>
</tbody>
</table>

This belt features a high grip, tan, diamond profile on a polyester monofilament spiral mesh carcass. The ZipLink design eliminates mechanical lace and replaces time-consuming, costly, vulcanized endless splices. Features a longer service life due to no "weak link." The diamond top profile provides positive grip on steep inclines/declines. Troughable and easily tracked, this belt is also non-marking.

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</tr>
</thead>
<tbody>
<tr>
<td>4334</td>
<td>20104335</td>
<td>-40°F to 250°F</td>
<td>0.33&quot;</td>
<td>0.109</td>
<td>2.5&quot;</td>
<td>U2 Clipper®, #15 Alligator®, RS125 Staple</td>
</tr>
</tbody>
</table>

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</thead>
<tbody>
<tr>
<td>4334</td>
<td>20104377</td>
<td>-40°F to 250°F</td>
<td>0.287&quot;</td>
<td>0.099</td>
<td>2&quot;</td>
<td>U2 Clipper®, #15 Alligator®, RS125 Staple</td>
</tr>
</tbody>
</table>

Oval shaped nubs on top cover is a popular choice for high angle inclines and declines. The unique cover design prevents slippage of products, as well as cushioning protection for boxes, cartons, and packaged goods.

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</tr>
</thead>
<tbody>
<tr>
<td>4334</td>
<td>20104334</td>
<td>-40°F to 250°F</td>
<td>0.33&quot;</td>
<td>0.112</td>
<td>2.5&quot;</td>
<td>U2 Clipper®, #15 Alligator®, RS125 Staple</td>
</tr>
</tbody>
</table>

Oval shaped nubs on top cover is a popular choice for high angle inclines and declines. The unique cover design prevents slippage of products, as well as cushioning protection for boxes, cartons, and packaged goods.
BELT CONSTRUCTION

We have a vast selection of heavy-duty belting products with a broad range of tension ratings and cover compounds to handle a wide variety of products.

POPULAR, DURABLE CONSTRUCTIONS
- Standard Grade 2 covers for abrasion resistance
- Grade 1 covers for impact and tear resistance
- Moderate and super oil resistant specs
- High-temperature, fire retardant, and static conductive constructions
- Plied and straight warp carcasses available

We have a vast selection of heavy-duty belting products with a
popular and versatile choice for small capacity conveyors. Durable covers and flexible carcass allow belt to wrap small pulley diameters.

Standard grade rubber covers resist abrasion and weathering in non-oily applications. Used as an economical, general purpose belt and is popular in many agricultural applications, including potato conveying and transport on slider beds.

Popular and versatile belt for medium-duty applications. Grade 2 covers provide excellent abrasion resistance and durability.

Popular and versatile choice for small capacity conveyors. Durable covers and flexible carcass allow belt to wrap small pulley diameters.

Very popular belt used extensively to transport rock, sand, and gravel. Offers tough polyester/nylon carcass and abrasion resistant Grade 2 covers for needed durability.

Excellent heavy-duty belt when higher tensions are required and to support wide loads. Thick top cover withstands impact, cutting, and gouging.

Excellent medium-duty conveyor belt with moderately thick abrasion resistant top cover. Popular for pan/ metal bed conveyors, particularly recycling and wood waste.

Standard grade rubber covers for light-duty unit and bulk handling applications. Popular fabricated belting for transporting potatoes, wood products, and light bulk materials.

One of the most popular belts in today's marketplace. Widely used to handle aggregate and other abrasive materials. 3/16" top cover offers durability and long belt life.

Excellent medium-duty conveyor belt with moderately thick abrasion resistant top cover. Popular for pan/ metal bed conveyors, particularly recycling and wood waste.

One of the most popular belts in today's marketplace. Widely used to handle aggregate and other abrasive materials. 3/16" top cover offers durability and long belt life.

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Excellent heavy-duty belt when higher tensions are required and to support wide loads. Thick top cover withstands impact, cutting, and gouging.
HEAVY-DUTY BELTING

GRAIN BELTING

INDUSTRIAL BELTING / GRAIN BELTING

- Single-ply straight wave belt covers offers exceptional life, low stretch, and high volume carrying capacity. Thick, Grade 1 covers withstand high impact, tearing, and gouging.

- High tension belt for handling heavy material, higher tonnages, and large lump sizes. Extra thick Grade 1 cover. Withstands high impact as well as bearing and gouging from sharp/heavy material.

- Special compounds in this belt make it an excellent choice for handling grain and other applications requiring resistance to mineral, animal, or vegetable fats. It is also static conductive for use on grain.

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- Popular choice for conveyors requiring small pulleys and low capacity. Often used in moderately oily applications such as agriculture and wood waste.

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- Very versatile belt used extensively in recycling applications to withstand the effects of light oils, chemicals, and greases. Stocked in a variety of widths up to 84".

- Very versatile belt used extensively in recycling applications to withstand the effects of light oils, chemicals, and greases. Stocked in a variety of widths up to 84".

- Very versatile heavy-duty belt with thick 3/16" moderate oil resistant top cover and bare bottom to operate on slider beds and metal pans. Popular for recycling and wood products.

- Very versatile heavy-duty belt with thick 3/16" moderate oil resistant top cover and bare bottom to operate on slider beds and metal pans. Popular for recycling and wood products.

- Heavy-duty belt for applications requiring moderate oil resistant covers such as waste water treatment, recycling, wood chips, and some grains.

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- Premium belt for higher temperature requirements. Popular in cement and foundry applications. Hybrid cover compounds provide extended life and can take occasional spikes up to 700°F. Maximum operating temperature for fines and dense baking loads is 300°F.

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- Popular belt for applications requiring moderate oil resistant covers such as waste water treatment, recycling, wood chips, and some grains.
### HEAVY-DUTY SPECIAL SERVICE BELTING

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>12A</td>
<td>20021093 0°F to 250°F 7/16&quot; 0.215 18&quot; (20&quot; (PIW)</td>
<td>180 Solid Plate, #550 Bolt On, RS Rivet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17A</td>
<td>20026766 450°F for 2&quot; lumps and above, 300°F for fines and dense baking loads</td>
<td>3/16&quot; 0.232 16&quot; (20&quot; (PIW)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Excellent heat and oil resistant belt with high tension strengths. Used in elevated oil temperature applications such as hot asphalt, machine oils, and oil treated coal. Special blended cover compounds provide maximum resistance to the deteriorating effects of oils and higher temperatures.*

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>18A</td>
<td>20022017 -40°F to 225°F 7/32&quot; 0.219 18&quot; (20&quot; (PIW)</td>
<td>180 Solid Plate, #550 Bolt On, RS Rivet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Quality heat resistant belt compounded to withstand elevated temperatures. 1/4" top cover provides impact resistance and added carcass protection. Will withstand occasional spikes up to 450°F. Maximum operating temperature for fines and dense baking loads is 300°F.*

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>19A</td>
<td>20029019 -95°F to 500°F 7/16&quot; 0.232 18&quot; (20&quot; (PIW)</td>
<td>180 Solid Plate, #550 Bolt On, RS Rivet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Premium belt for higher temperature requirements. Popular in cement and foundry applications. 1/4" top cover provides impact resistance and added carcass protection. Will withstand occasional spikes up to 500°F. Maximum operating temperature for fines and dense baking loads is 500°F.*

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20A</td>
<td>20028681 400°F for 2&quot; lumps and above, 300°F for fines and dense baking loads</td>
<td>3/8&quot; 0.295 20&quot; (24&quot; (PIW)</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

*High tension 4-ply construction particularly suited for heavy-duty elevator service of hot materials. Thick covers protect belt carcass. Will withstand occasional spikes up to 400°F. Maximum operating temperature for fines and dense baking loads is 300°F.*

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>21A</td>
<td>20022957 -40°F to 225°F 7/32&quot; 0.219 18&quot; (20&quot; (PIW)</td>
<td>180 Solid Plate, #550 Bolt On, RS Rivet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Premium belt for extreme temperature requirements. Popular in cement and foundry applications. Hybrid cover compounds provide extended life, and will withstand temperatures down to -95°F.*

<table>
<thead>
<tr>
<th>SPEC#</th>
<th>PART#</th>
<th>TEMP.</th>
<th>THICKNESS</th>
<th>WEIGHT</th>
<th>MIN. PULLEY</th>
<th>RECOMMENDED LACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>22A</td>
<td>20021239 -95°F to 500°F 7/16&quot; 0.232 18&quot; (20&quot; (PIW)</td>
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<td></td>
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</tbody>
</table>

*High tension 4-ply construction designed for heavy-duty elevator service to transport hot material. Thick top and bottom covers withstand heat and protect belt carcass. Will withstand occasional spikes up to 400°F. Maximum operating temperature for fines and dense baking loads is 300°F.*
### LACING

For time-saving, high-quality belt splicing, mechanical fasteners are the smart alternative to endless belts. The change-out or installation of fasteners can be an easy process, and there are a variety of fastener options available, including Flexco®, Alligator®, Clipper®, and Super-Screw®. We’re here to help you select the right option for your lightweight or heavy-duty belt application.

<table>
<thead>
<tr>
<th>SPEC</th>
<th>PART#</th>
<th>TEMP. (°F)</th>
<th>THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-PLY ZFE 256# 1/8&quot; DUROCHEV®</td>
<td>20029601</td>
<td>0°F to 250°F</td>
<td>0.283</td>
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### SPEC# PART# TEMP. THICKNESS WEIGHT (PIW) MIN. PULLEY RECOMMENDED LACING

<table>
<thead>
<tr>
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<th>PART#</th>
<th>TEMP. (°F)</th>
<th>THICKNESS</th>
</tr>
</thead>
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<tr>
<td>2-PLY 220# 1/8&quot; DUROCHEV® GRADE 2</td>
<td>20029602</td>
<td>0°F to 250°F</td>
<td>0.333</td>
</tr>
</tbody>
</table>

51
LACING & SPLICING

Selecting the correct lacing option for your belt is critical. Apache offers a variety of lacing styles and materials to meet the needs of every application.

FITNESS MATERIAL SELECTION GUIDE

<table>
<thead>
<tr>
<th>FASTENER MATERIAL</th>
<th>CHARACTERISTICS</th>
<th>FASTENER MATERIAL</th>
<th>CHARACTERISTICS</th>
<th>FASTENER MATERIAL</th>
<th>CHARACTERISTICS</th>
<th>FASTENER MATERIAL</th>
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<td>No</td>
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<td>**</td>
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<td>Good</td>
<td>Excellent</td>
<td>Slightly</td>
<td>No</td>
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<td>**</td>
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<td>Black Oxide</td>
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<td>Fair</td>
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</tbody>
</table>

FASTENERS

- Clipper® Wire Hook
- Alligator® Lacing
- Alligator® Staple
- Plastic Spiral Lace
- Alligator® Plastic Rivet
- Alligator® Rivet
- Flexco® Bolt Solid Plate
- Flexco® Bolt Hinge
- Flexco® Rivet Solid Plate
- Flexco® Rivet Hinged

CUSTOM SPLICING OPTIONS

- Standard
- Recessed
- Hidden Top
- Finger Hinge Lace
- Thermoplastic Hinge

RECESSED LACE
Mechanical splice area is recessed below the belt surface.

OVERLAP
Mechanical lacing is installed below the belt surface and the top cover is separated from the belt carcass creating a flap over. The cover flap can be glued down after installation.

HIDDEN LACE
Mechanical fasteners are installed below the belt cover to prevent the lace from contacting the product.

ENDLESS NON-MECHANICAL SPLICING SOLUTIONS

Endless splicing methods eliminate the need for hardware fasteners. This fabrication technique is excellent for food processing and applications where products need to be handled with greater care.

STEP SPLICE BELT
For belts with multiple plies. Plies are separated and “stepped” to interlock with one another at the splice point. Performed by experts in our fabrication facility for quality assurance and appropriate curing time.

SKIVED SPLICE
A precision grinding technique is used to achieve uniform thickness at the splice point for a variety of applications.

FINGER SPLICE
For thermoplastic, urethane and PVC belts. A very durable splice that maintains a smooth belt surface throughout the splice area. Multiple finger patterns are available to meet a variety of applications and system pulley sizes.

ENDLESS-PREPARED
We square and prepare the belt’s ends in our fabrication facility for hot or cold cement bonding at the customer’s site. Cement bonding kits with instructions are available.

DOUBLE FINGER SPLICE
Unlike a standard finger splice, fingers are cut from multiple plies, staggered, then fused together by heat and pressure to create a stronger, more flexible splice.

STITCHED REINFORCEMENT
Certain applications put unusual wear on splices and edges. These areas can be strengthened with stitching.

LONGLATURAL SPLICING
Very wide belts are created by longitudinally splicing two or more belts of narrower dimension. Piles are expertly stepped and bonded in our fabrication facilities to create a uniformly smooth belt as wide as the application requires. Ultra-wide belts can be made endless prior to shipping... or have ends prepared for field splicing. V-guides and other profiles can also be added.
LIGHTEST WIRE HOOK SYSTEM

Please note this chart represents common hook sizes. Additional sizes are available or can be custom made for specific application requirements.

<table>
<thead>
<tr>
<th>MINIMUM PULLEY DIAMETER</th>
<th>WIRE DIAMETER</th>
<th>UP TO 3/32&quot;</th>
<th>WIRE</th>
<th>3/32&quot;</th>
<th>WIRE</th>
<th>5/32&quot;</th>
<th>WIRE</th>
<th>7/32&quot;</th>
<th>WIRE</th>
<th>9/32&quot;</th>
<th>WIRE</th>
<th>1/2&quot;</th>
<th>WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm (1&quot;)</td>
<td>0.5</td>
<td>1/32&quot;</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
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</tr>
<tr>
<td>36mm (1.4&quot;)</td>
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<td>0.8</td>
<td>0.8</td>
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<td>0.8</td>
<td>0.8</td>
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<td>0.8</td>
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<td>0.8</td>
<td>0.8</td>
<td>0.8</td>
<td>0.8</td>
</tr>
<tr>
<td>40mm (1.6&quot;)</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
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<td>0.9</td>
<td>0.9</td>
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</tr>
<tr>
<td>45mm (1.8&quot;)</td>
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<td>1.1</td>
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<tr>
<td>50mm (2&quot;)</td>
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<td>1.4</td>
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</tr>
</tbody>
</table>

Note: Fastener ratings are subject to many variables including belt composition, age, speed, cycles, etc. These ratings are intended to serve as a general guide to determine appropriate application.

SUPER-SCREW® FASTENERS

Super-Screw® fasteners have the strength and dependability of a vulcanized splice without the costly downtime needed to fabricate an endless belt. With the ability to be installed on any conveyor belt, even in challenging access situations, this fastener is quick and easy to install.

Constructed of multi-ply rubber, Super-Screw® fasteners attach to the belt with special, self-tapping screws. These screws allow the carcass threads to spread without cutting completely through them. This fastener can be fitted to your belt with one, two, or three rows of screws.

ADVANTAGES OF USING SUPER-SCREW® FASTENERS INCLUDE:

- Quick installation
- Installs in all weather conditions
- Cost effective – no need for expensive equipment
- Requires no drilling preparation or templates
- Suitable for belt up to 400°F (200°C)
- Compatible with conveyor scrapers
- Prevents material loss
- Abrasion- and cut-resistant
- Contains high-tensole strength and elasticity
- Available on a roll or in cut lengths
- A variety of compounds available

### SUPER-SCREW® GENERAL DATA

<table>
<thead>
<tr>
<th>TYPES</th>
<th>35 63 65 80 85 100 105 125 127 180 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELT THICKNESS</td>
<td>Max. Belt Tension</td>
</tr>
<tr>
<td>5/32&quot;</td>
<td>0.397 mm</td>
</tr>
<tr>
<td>0.63 mm</td>
<td>200#</td>
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<tr>
<td>0.8 mm</td>
<td>200#</td>
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<td>800#</td>
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<td>5,000#</td>
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<td>15.0 mm</td>
<td>7,000#</td>
</tr>
<tr>
<td>17.0 mm</td>
<td>10,000#</td>
</tr>
</tbody>
</table>

UNIBAR®

Fastener applications are subject to many variables including belt composition, age, speed, cycles, etc. These ratings are intended to serve as a general guide to determine appropriate applications.
READY TO INSTALL
Order Super-Screw® fasteners ready to install and get the length your customer needs, including all the accessories necessary to install them yourself.
- Spacers come pre-installed
- Top and bottom match
- Delivered with screws and P2 bit
*Maximum assembled length is 10 ft (3.048 m)

IN A ROLL
Super-Screw® fasteners are also available in lengths up to 82 ft (25 m). These rolls are delivered in two separate coils (top and bottom sections). To complete your order consider adding:
- Spacers
- Bucket of screws
- P2 bit

AVAILABLE COMPOUNDS
Super-Screw® fasteners work in a variety of rubber applications because they have the following compound characteristics:
- Abrasion resistant
- Heat resistant
- Low temperatures
- Oil resistant
- Fire retardant and anti-static
- White FDA/USDA cover with stainless steel inserts and screws

FABRICATION
We are a custom fabricator – you tell us what you need and we will create it for you. Our belt technicians fabricate essentially any belt configuration to meet a range of applications, producing some of the industry’s most advanced custom-cleated belts.
**V-GUIDES**

V-guides are used to help belts track properly on conveyors. Used on the bottom of a belt they serve as a guide, but can also be attached to the top of the belt and used as a vanner edge. A broad range of V-guide profiles are available. Single center guides are popular for narrow belts. Guides may be utilized for tracking purposes, cleats and side flanges. For best results, a grooved pulley should have a 90° wrap. The primary purpose of vanner edges is to prevent material from spilling off the outside edges of the conveyor belt. Flanges are offered in rubber, which are hot vulcanized to the top cover, or in PVC, which are “hot welded” to the top surface.

**V-GUIDE GENERAL SPECS**

<table>
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<th>TYPE</th>
<th>X</th>
<th>Y</th>
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<td>6 mm</td>
<td>4 mm</td>
<td>4 mm</td>
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**MINIMUM PULLEYS**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>RUBBER SOLID</th>
<th>RUBBER NOTCHED / SIPED</th>
<th>PVC SOLID</th>
<th>PVC NOTCHED</th>
<th>PVC BACKFLES</th>
<th>URETHANE SOLID</th>
<th>URETHANE NOTCHED</th>
<th>URETHANE BACKFLES</th>
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<tbody>
<tr>
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<td>2&quot;</td>
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<td>2-1/2&quot;</td>
<td>1/2&quot;</td>
<td>2-1/4&quot;</td>
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<tr>
<td>Modified 8 mm</td>
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<td>D Section</td>
<td>8&quot;</td>
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<td>6-1/2&quot;</td>
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<td></td>
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</tr>
</tbody>
</table>

**BACK-FLEXING**

Back-flexing needs minimum rubber roller pulley for bend idlers.

A. Center Drive system with a 90° wrap
B. Snubber Roller with a 250° to 230° wrap
C. S Take-up conveyor system (S-Drive)

**GROOVES**

For lightweight belts, all channels or grooves on a grooved pulley should be 1/8" deeper on all sides of the guide. (e. 2/4" idler, and X > 1/8")

**WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov
**CLEATS**

Cleats are used to convey materials up an incline and prevent product rollback, as well as to create separation between the products or materials that are being conveyed. Other names for cleats include flights, lugs, and profiles. We offer a wide variety of cleat styles and patterns to fit every application need.

- **T-Cleat** for most incline needs
- **Scoop cleats** for steeper angles
- **Thin line cleats** for smaller pulley diameters and lower tonnages
- **Available in many sizes, styles, and colors**

### GENERAL CLEAT SPECS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>A</th>
<th>B</th>
<th>E</th>
<th>D</th>
</tr>
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<tbody>
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<td>1/4&quot;</td>
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### LIGHTWEIGHT & HEAVY-DUTY CLEAT MINIMUM PULLEYS

When a belt involves multiple components (i.e. Base belt, V-guide, sidewall, flange, lacing, etc.) it is important to consider the minimum pulley dimensions of all components when determining an appropriate minimum pulley dimension for the entire conveyor system.

<table>
<thead>
<tr>
<th>MINIMUM PULLEYS</th>
<th>TYPE</th>
<th>RUBBER</th>
<th>PVC</th>
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</tr>
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<td>16&quot;</td>
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</tr>
</tbody>
</table>

### MODIFICATION OPTIONS

- **Cut-out**
- **Indented**
- **Notched**
- **Full-width**
- **Tapered**

**MOR** = Moderate Oil Resistance

**MSHA** = Mine, Safety, and Health Administration

**SCORFR** = Static Conductive/Oil Resistant/Fire Resistant

**PVC** = Poly Vinyl Chloride

When selecting a fabricated belt, the “largest” minimum pulley diameter for each component must be chosen as the smallest pulley diameter to use. Undersized pulleys can create a number of issues, including:
- **Shortened belt life**
- **Ply separation**
- **Creation of stress cracks in covers**
- **Causes cleats to lift from belt covers**

The above chart is intended to be used as a guideline. Contact your Apache product expert with questions for specifics to your application.
LIGHTWEIGHT HF WELDED CLEATS

High frequency (HF) welded profiles combine advanced technological features to optimize productivity, and provide quality custom products to meet your customers’ unique application needs. The HF welding process creates a strong, consistent bond between two polymers. This strong bond helps ensure food safety while offering protection from bacteria contamination. It’s also ideal for small parts, metals, and plastics.

- Stronger bond than traditional welding methods
- Custom profiles available for specialty applications
- Narrow-base widths to wrap smaller pulleys
- Precision placement of cleats
- Longer service life
- Easy cleaning
- Thin line and footless cleats available
- A variety of sizes and thicknesses available

HEAVY-DUTY CUSTOM CHEVRON CLEATS

Below are examples of patterns of our most popular designs – we have over 150 patterns available but can customize them to your specific needs. Heights normally range from 1/4" to 1-1/2" to prevent rollback. Normal incline angles range from 15-35 degrees depending on material conveyed and surcharge angle. Chevron cleats are also used on flat idlers as well as metal beds or pan conveyors.

- Template #34: 1" Height x 2" Width U-shaped Cleats
- Template #35: 1/2" x 1/2" Square U-shaped Cleats
- Template #36: 1/2" x 1/2" Rect. Cleats for 44" or Wider Belts
- Template #37: 1/2" x 1/2" Square Chevron
- Template #38: 1/2" x 1/2" Square Chevron
- Template #39: 1/2" x 1/2" Square Chevron
- Template #40: 1/2" x 1/2" Square Chevron
- Template #32: 3/8" x 3/8" Closed Chevrons
- Template #30: 3/8" x 3/8" Closed Chevrons
- Template #28: 3/8" x 3/8" Closed Chevrons
- Template #26: 3/8" x 3/8" Closed Chevrons

- Template #8: 1/2" x 1/2" Square U-shaped Cleats
- Template #8A: 1/2" x 1/2" Square U-shaped Cleats
- Template #8B: 1/2" x 1/2" Square U-shaped Cleats
- Template #8C: 1/2" x 1/2" Square U-shaped Cleats

- Template #4: 1/2" x 1/2" Square U-shaped Cleats
- Template #4A: 1/2" x 1/2" Square U-shaped Cleats
- Template #4B: 1/2" x 1/2" Square U-shaped Cleats
- Template #4C: 1/2" x 1/2" Square U-shaped Cleats

- Template #3: 1/2" x 1/2" Square U-shaped Cleats
- Template #3A: 1/2" x 1/2" Square U-shaped Cleats
- Template #3B: 1/2" x 1/2" Square U-shaped Cleats
- Template #3C: 1/2" x 1/2" Square U-shaped Cleats

- Template #2: 1/2" x 1/2" Square U-shaped Cleats
- Template #2A: 1/2" x 1/2" Square U-shaped Cleats
- Template #2B: 1/2" x 1/2" Square U-shaped Cleats
- Template #2C: 1/2" x 1/2" Square U-shaped Cleats

- Template #1: 1/2" x 1/2" Square U-shaped Cleats
- Template #1A: 1/2" x 1/2" Square U-shaped Cleats
- Template #1B: 1/2" x 1/2" Square U-shaped Cleats
- Template #1C: 1/2" x 1/2" Square U-shaped Cleats

- Template #40: 1/2" x 1/2" Square U-shaped Cleats
- Template #41: 1/2" x 1/2" Square U-shaped Cleats
- Template #42: 1/2" x 1/2" Square U-shaped Cleats
- Template #43: 1/2" x 1/2" Square U-shaped Cleats

- Template #3: 1/2" x 1/2" Square U-shaped Cleats
- Template #3A: 1/2" x 1/2" Square U-shaped Cleats
- Template #3B: 1/2" x 1/2" Square U-shaped Cleats
- Template #3C: 1/2" x 1/2" Square U-shaped Cleats

- Template #2: 1/2" x 1/2" Square U-shaped Cleats
- Template #2A: 1/2" x 1/2" Square U-shaped Cleats
- Template #2B: 1/2" x 1/2" Square U-shaped Cleats
- Template #2C: 1/2" x 1/2" Square U-shaped Cleats

- Template #1: 1/2" x 1/2" Square U-shaped Cleats
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- Template #43: 1/2" x 1/2" Square U-shaped Cleats

- Template #3: 1/2" x 1/2" Square U-shaped Cleats
- Template #3A: 1/2" x 1/2" Square U-shaped Cleats
- Template #3B: 1/2" x 1/2" Square U-shaped Cleats
- Template #3C: 1/2" x 1/2" Square U-shaped Cleats

HEAVY-DUTY STEEP CLIMBER™ CLEAT PATTERNS

Apache’s Steep Climber hot vulcanized rubber cleats are specifically designed for the larger material and steeper incline angles used in troughing systems. This versatile and durable cleat pattern comes in four (4) widths: 13-27”.

- Cleat spacing is 10” to ensure smooth running on return idlers.

- Contact Apache Customer Service for recommendations on your specific application.
HEAVY-DUTY MOLDED CHEVRONS
Apache provides a variety of molded chevron cleat designs for demanding applications. The molded chevron profiles are an integral part of the top cover that ensures superior performance and durability.

DUROCLEAT™
Molded chevron cleated belt is available in six different specifications, with cleats in a uniform pattern running across the width of the belt.

- Cleat dimensions are 1/4” high x 3/8” wide x 6” overall width
- This versatile V-cleat belt is available with rubber bottom covers, as well as bare back constructions for operating on metal beds
- Compounds include standard Grade 2 and MOR for oily conditions
- Durocleat is widely used for conveying grain, woodchips, sand, aggregate, and refuse in recycling facilities

MOLDED ROAD-AWAY™ MILLING BELT
Our integrally molded U-shaped and V-shaped chevron pattern belts offer high capacity and superior performance. Apache's special endless splicing techniques assure excellent strength, flexibility, and performance in these demanding applications.

- High-strength rubber compounds
- Rugged wide cleat base and tapered ends eliminate cleat separation from belt
- Will withstand the rigors of high speeds and small pulley diameters
- 1” high cleats for more carrying capacity and better leveling of material on carrying side
- Smoother, quieter return, and better tracking thanks to the center stabilizer bar on the V-cleat construction
- Mechanical fasteners are also available

DUROCHEV™
Durochev belts have a 5/8” high molded chevron cleats on 10” centers. These belts are designed for rugged incline applications and popular for conveying rock, sand and gravel. The molded cleats are recessed from belt edges to allow for placement of skirting.

ROCK CHUCKER™
These fully molded chevron cleated belts are designed for “placing” product in confined/hard-to-reach areas. This versatile 2-ply belt is an excellent choice for throwing rock, sand, mulch, dirt, and other bulk materials. Apache’s Rock Chucker belts are vulcanized endless to withstand the stress of high speeds and small pulley diameters. Belt width is 14”.

- Popular applications include:
  - Basement/foundation jobs
  - Residential and commercial construction
  - Landscaping maintenance and construction

- Driveway, sidewalk and curb construction
- Trenching for public utilities

See p. 50, spec #280.

WARNING: Cancer and Reproductive Harm—www.P65Warnings.ca.gov
LONGITUDINAL SPLICING

The Apache specializes in producing longitudinally spliced belts. Our skilled technicians take great care to ensure uniform thickness across the entire belt width for high performance and strength.

- We use a special angle beveling technique in the top cover that eliminates the possibility of cracks developing in the splice, thus eliminating product contamination in the splice area.
- We can splice almost all impression top belting without removing the top covers (such as Durocleat™, diamond top, Z-top, roughtop, pebbletop).
- Apache can do multiple longitudinal splices to make a single belt up to 14-16 feet wide.
- Extra wide belts can be made endless prior to shipping, or can have ends prepared for splicing in the field.
- V-guides and other profiles can be added as required.
- Any carcass type: solid woven polyester, non-woven, needled, standard plies.
- Cover surfaces: smooth, rubber, PVC, urethane, fabric friction, light impression.
LIGHTWEIGHT DUROWALL SIDEWALLS

Apache offers a wide variety of material and fabrication solutions to tackle your most challenging conveying applications, and our lightweight DUROWALL™ corrugated sidewall belting is your problem solver for light-duty, steep-angle conveying.

- Our lightweight sidewall is offered in polyurethane, thermoplastic, and conventional rubber compounds for belting, cleats, and sidewalls
- These belts are suitable for applications requiring FDA/USDA/3A certifications, oil resistance, and anti-static properties

LIGHTWEIGHT CROSS-RIGID BELTING

Belting components are attached to base belts by hot air, high frequency (HF) welding, conventionally, or hot bonded for rubber components. The base belts are engineered to provide the features needed for maximum performance — transverse stiffness prevents bowing at conveyor transition/change-of-direction points, while also remaining flexible in the longitudinal direction to negotiate small pulleys:

- DUROWALL™ lightweight belts are popular for operating in confined areas, particularly when products need to be quickly elevated

* RMV cross-rigid belting has monofilament polyester plies, which act as a tension member, and provide transverse stiffness

LIGHTWEIGHT CORRUGATED SIDEWALLS SIZING

Polyurethane corrugated sidewalls are popular in food-grade applications, and provide consistent dependability. Black rubber sidewalls are used when more durability is needed, or in applications that require a more robust construction.

<table>
<thead>
<tr>
<th>POLYURETHANE SIDEWALL</th>
<th>LIGHTWEIGHT RUBBER SIDEWALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEIGHT</td>
<td>BASE WIDTH</td>
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<td>3-15/16&quot;</td>
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POPULAR APPLICATIONS

- Bakeries
- Cereals
- Confection
- Wood products
- Recycling
- Glass
- Dairies
- Warehousing
- Injection molding
- Metal parts
- Plastics
- Light manufacturing

WARNING: Cancer and Reproductive Harm—www.P65Warnings.ca.gov
HEAVY-DUTY CORRUGATED SIDEWALLS

Apache offers two types of corrugated sidewall belting—DUROWALL™ and PAC-WALL®, and our exclusive sizing program can engineer a sidewall belt for any system.

DUROWALL™ — CONVENTIONAL

As Apache’s flagship brand, our conventional DUROWALL™ sidewall belts have a successful track record. With a proven performance spanning four decades, this product offering comprises thousands of successful installations.

- State-of-the-art hydraulic presses apply consistent and uniform pressure, ensuring high adhesion levels between corrugated sidewall bases and conveyor belt covers.
- Quality materials, precise work instructions, and attention to detail are standards at Apache.
- Our experienced technicians fabricate every belt to ISO standards.
- Automated, precision buffing machines are able to grind sidewalls and belt covers to the exact depths, maximizing needed component bond strengths.

PAC-WALL® — HOT VULCANIZED

Apache’s hot vulcanized sidewall product offering, PAC-WALL®, can improve belting performance in applications where a higher level of sidewall adhesion is required. Specific applications that may be better suited to PAC-WALL® include:

- High temperature environments—eliminates the need for hardware attachments to the base belt.
- Side loading conveyors where the material initially impacts the sidewall first and requires additional bond strengths.
- Belts operating on conveyors with material build up in the horizontal return sections, where higher adhesion levels ensure sidewalls remain bonded to belt covers.
- Hard to access conveyors where elevated adhesion values serve as an economical insurance policy when regular maintenance is not practiced.

HEAVY-DUTY CROSS-RIGID SIDEWALLS

HEAVY-DUTY CROSS-RIGID BASE BELTING

Cross-rigid base belting helps deliver material in an efficient, cost-effective manner for applications that may challenge standard belts. That means a more efficient system without worry of belt failure or downtime.

Our cross-rigid belting is specifically designed to provide lateral stiffness and eliminate belt bowing and cupping at directional change points on the conveyor. It also helps reduce belt sag on the return run.

Although the belt is rigid in the transverse direction, it remains flexible in the longitudinal direction. This unique design allows the belt to operate on standard pulleys and not interfere with the conveyor structure.

HEAVY-DUTY CROSS-RIGID BELTING

<table>
<thead>
<tr>
<th>STYLE</th>
<th>TOTAL PLYS</th>
<th>TENSION PLYS</th>
<th>PWM BELTING</th>
<th>CROSS-RIGID PLYS</th>
<th>MOR</th>
<th>OVERALL RATING</th>
<th>MINIMUM PULLEY</th>
<th>COLOR</th>
<th>COMPOUND</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXX 300 3 1 225 2 1/8” x 1/16”</td>
<td>0.160</td>
<td>0.25</td>
<td>8”</td>
<td>Black Rubber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AXX 440 6 4 440 2 3/16” x 1/8”</td>
<td>0.360</td>
<td>0.605</td>
<td>24”</td>
<td>Black Rubber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AXX 550 7 5 550 2 3/16” x 1/16”</td>
<td>0.400</td>
<td>0.7</td>
<td>30”</td>
<td>Black Rubber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Available rubber compounds: Black Standard, Black Oil-Resistant, Black Static-Conductive, Black (MSHA), and Black Heat-Resistant (400°F).
HEAVY-DUTY CORRUGATED SIDEWALL SIZING
Apache's DUROWALL™ and PAC-WALL® corrugated sidewalls (available in heights from 1” to 12”) are manufactured in a variety of compounds to best suit your application needs. All of our corrugated sidewalls have high tensile strength properties for added flexibility and toughness in order to withstand cutting, tearing, and abrasion. We also offer fabric reinforced sidewalls for products greater than 6” tall to provide additional strength and tear resistance.

<table>
<thead>
<tr>
<th>HEIGHT (IN)</th>
<th>BASE WIDTH (IN)</th>
<th>PITCH (IN)</th>
<th>WEIGHT (LBS/100FT)</th>
<th>CLEAT HEIGHT (MIN)</th>
<th>MIN. PULLEY (D1)</th>
<th>MIN. DEFLECTION (D2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>1-1/2”</td>
<td>1”</td>
<td>30</td>
<td>2”</td>
<td>1”</td>
<td>4”</td>
</tr>
<tr>
<td>1-1/2”</td>
<td>1-1/2”</td>
<td>1”</td>
<td>45</td>
<td>3”</td>
<td>1-1/2”</td>
<td>6”</td>
</tr>
<tr>
<td>2”</td>
<td>2”</td>
<td>1-1/8”</td>
<td>60</td>
<td>3”</td>
<td>1-1/2”</td>
<td>6”</td>
</tr>
<tr>
<td>2”</td>
<td>2”</td>
<td>1-1/8”</td>
<td>80</td>
<td>3”</td>
<td>1-1/2”</td>
<td>6”</td>
</tr>
<tr>
<td>2-1/2”</td>
<td>2”</td>
<td>1-5/8”</td>
<td>95</td>
<td>3”</td>
<td>1-1/2”</td>
<td>6”</td>
</tr>
<tr>
<td>3”</td>
<td>2”</td>
<td>1-5/8”</td>
<td>110</td>
<td>3”</td>
<td>1-1/2”</td>
<td>6”</td>
</tr>
<tr>
<td>4”</td>
<td>2”</td>
<td>1-5/8”</td>
<td>140</td>
<td>3”</td>
<td>1-1/2”</td>
<td>6”</td>
</tr>
<tr>
<td>6”</td>
<td>2”</td>
<td>1-5/8”</td>
<td>220</td>
<td>4-1/2”</td>
<td>12”</td>
<td>20”</td>
</tr>
</tbody>
</table>

HEAVY-DUTY SIDEWALL CLEAT OPTIONS
We designed our DUROWALL™ and PAC-WALL® belting with a variety of cleating styles and compounds to allow for maximum operational efficiency based on the required capacity and angle of inclination. Many of the larger cleats we provide are fabric reinforced to withstand punishment at loading points (two-piece cleat compounds include rubber, polyurethane, high-temp polyurethane, and UHMW). Taller cleats are normally bolted to the sidewalls to reinforce “pocket” strength.

<table>
<thead>
<tr>
<th>CLEAT STYLE</th>
<th>CLEAT HEIGHT (IN)</th>
<th>MIN. PULLEY (D1)</th>
<th>MIN. DEFLECTION (D2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-CLEAT</td>
<td>1”</td>
<td>4”</td>
<td>18”</td>
</tr>
<tr>
<td>C-CLEAT</td>
<td>2”</td>
<td>6”</td>
<td>18”</td>
</tr>
<tr>
<td>S-CLEAT</td>
<td>3”</td>
<td>8”</td>
<td>16”</td>
</tr>
<tr>
<td>BOLTED</td>
<td>4-1/2”</td>
<td>14”</td>
<td>20”</td>
</tr>
</tbody>
</table>

WARNING: Cancer and Reproductive Harm—www.P65Warnings.ca.gov
LIGHTWEIGHT BELTING & CUSTOM FABRICATIONS

Apache is continually adding new products and expanding our capabilities to help you create the products you need. Our fabrications demonstrate our capabilities to utilize new technology, modern equipment, and cutting-edge techniques. The outstanding quality of this workmanship relates directly to the solid experience and training of our belt fabricators. We offer all standard fabrications plus several of our own specialties.

SPECIALTY AND COVERED PRODUCTS

We offer custom coverings for flat belt, V-belts, and timing belts including urethane, steel/Kevlar® reinforced, neoprene, rubber, and HTD. Products like these are highly effective in a variety of applications from vacuum systems, to orienting and pulling product down the line.

URETHANE FOAM COVERING

Our green, urethane foam is created to coat and back flat belts, timing belts and V-profiles. Features include:

- Belt surface with high grip properties
- Excellent abrasion resistance
- Soft, yet durable coating
- Non-marking to the items being conveyed
- Because the coating is made of urethane, we can heat-weld this product to the base belt and help you sidestep the higher production costs of chemical bonding.

CONDUCTIVE STRIP BELTS

Conductive strip belts enable the unique powder paint booth process.

SPLICED TIMING BELTS

We splice custom length H pitch neoprene timing belts.

EDGE-CAPPING

Edge capping is applied to exposed conveyor belt edges to avoid contamination of products, particularly in food applications, as well as the equipment with stringing from the plies/edge fray. Our high frequency (HF) edge capping has a smaller edge when applied, making it less susceptible to pitting. When applied, this provides another level of hygiene by protecting the plies of our fabric belts from becoming saturated with fluids creating contamination with other harmful bacteria.

MATERIALS AND STYLES:

- Blue Lycra
- Covered Sponge
- Gum
- Neoprene
- Sponge (Closed Cell)
- Nitrile (White or Black)
- Red Natural Rubber
- Roughtop (Gum or Nitrile)
- Scrubber Matting
- Urethane Foam
- Urethane Foam Adhesive Top
- Urethane Sheeting

* Additional coverings available upon request.
HOLE PUNCHING & PERFORATIONS

Apache can supply a wide variety of hole-punching and perforation patterns. Whether you have a lightweight vacuum application or a heavy-duty application such as filtration, dewatering or elevator service, we have the experience and technology to supply the hole configuration you require.

- Our elevator belting production process is part of our ISO certification, ensuring that the proper steps and procedures are consistently followed to provide the needed hole sizes, patterns and spacing for your order.
- We have a wide range of dies to provide precise, clean and tight fitting holes for bucket elevators.

ACCESSORIES

In addition to our industry-leading belts, Apache carries many of the products and materials you require to keep your operation running. Skirtboard, pulleys, elevator buckets, and more – whatever your accessory needs, make Apache your first call.
Apache offers a variety of elevator buckets to meet the needs of your application, and an assortment of bolts.

### ELEVATOR BUCKETS

- Steel, zinc-plated, and stainless steel available
- Bolts include nuts without washers
- Also available are fanged and Norway bolts styles, nylon inserted lock-nuts, and locking or flat washers

### ELEVATOR BELTS

Buckets are available in metal, nylon, urethane, and polyethylene to handle a variety of materials. The bolt holes can be punched in any required pattern.

### STEEL FLAT HEAD BOLTS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>GTV/BOX</th>
<th>Lbs./BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; x 3/4&quot;</td>
<td>100</td>
<td>3.1</td>
</tr>
<tr>
<td>1/4&quot; x 1&quot;</td>
<td>100</td>
<td>3.2</td>
</tr>
<tr>
<td>1/4&quot; x 1-1/4&quot;</td>
<td>100</td>
<td>3.6</td>
</tr>
<tr>
<td>1/4&quot; x 1-1/2&quot;</td>
<td>100</td>
<td>3.9</td>
</tr>
<tr>
<td>5/32&quot; x 1&quot;</td>
<td>100</td>
<td>5.3</td>
</tr>
<tr>
<td>5/32&quot; x 1-1/4&quot;</td>
<td>100</td>
<td>5.8</td>
</tr>
<tr>
<td>5/32&quot; x 1-1/2&quot;</td>
<td>100</td>
<td>6.1</td>
</tr>
<tr>
<td>5/32&quot; x 2&quot;</td>
<td>100</td>
<td>7.3</td>
</tr>
<tr>
<td>3/32&quot; x 1&quot;</td>
<td>50</td>
<td>3.8</td>
</tr>
<tr>
<td>3/32&quot; x 1-1/4&quot;</td>
<td>50</td>
<td>4.0</td>
</tr>
<tr>
<td>3/32&quot; x 1-1/2&quot;</td>
<td>50</td>
<td>4.4</td>
</tr>
<tr>
<td>3/32&quot; x 2&quot;</td>
<td>50</td>
<td>5.0</td>
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### ELEVATOR BUCKET PROJECTIONS

<table>
<thead>
<tr>
<th>PVC ELEVATOR BELT</th>
<th>SPF</th>
<th>PART #</th>
<th>BELT DESCRIPTION</th>
<th>MAX. BUCKET PROJECTION</th>
<th>BELT COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>65A 20038199</td>
<td>PVC</td>
<td>150# Black CBS</td>
<td>4&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>67A 20038509</td>
<td>PVC 2-ply</td>
<td>220# PVGE</td>
<td>6&quot;</td>
<td>White</td>
<td></td>
</tr>
<tr>
<td>69A 20038206</td>
<td>PVC 2-ply</td>
<td>200# ORSC CBS</td>
<td>6&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>69B 20038500</td>
<td>PVC 2-ply</td>
<td>250# ORSC CBS</td>
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<tr>
<td>72 20039000</td>
<td>PVC 3-ply</td>
<td>330# ORSC CBS</td>
<td>7&quot;</td>
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<td></td>
</tr>
<tr>
<td>73 20040009</td>
<td>PVC 4-ply</td>
<td>450# ORSC CBS</td>
<td>8&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>259 20040015</td>
<td>PVC 4-ply</td>
<td>600# ORSC CBS</td>
<td>9&quot;</td>
<td>Black</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RUBBER ELEVATOR BELT</th>
<th>SPF</th>
<th>PART #</th>
<th>BELT DESCRIPTION</th>
<th>MAX. BUCKET PROJECTION</th>
<th>BELT COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>23A 20021628</td>
<td>2-ply</td>
<td>220# x 1/16 x 1/16 SCORFR Grain</td>
<td>6&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>25A 20021630</td>
<td>3-ply</td>
<td>330# x 1/16 x 1/16 SCORFR Grain</td>
<td>8&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>27A 20021635</td>
<td>3-ply</td>
<td>600# x 1/16 x 1/16 SCORFR Grain</td>
<td>10&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>27B 20021640</td>
<td>4-ply</td>
<td>440# x 1/16 x 1/16 SCORFR Grain</td>
<td>9&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>43A 20026790</td>
<td>3-ply</td>
<td>330# x 1/4 x 1/16 700° Super-Heat</td>
<td>8&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>177 20026166</td>
<td>3-ply</td>
<td>33-8 x 1/4 x 1/16 450° Maxi-Heat</td>
<td>8&quot;</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>284 20026819</td>
<td>4-ply</td>
<td>440# x 1/4 x 1/32 400° Maxi-Heat</td>
<td>9&quot;</td>
<td>Black</td>
<td></td>
</tr>
</tbody>
</table>
VOLTA SPICING TOOLS
A variety of tools are available for fabrication of Volta belting, including the following splicing tools for low-cost and easy installations.

FLAT BUTT WELDING SYSTEM
The FBW splicing tool is lightweight and easy to use, it requires only a standard electrical connection. This tool offers quick set-up and shortens downtime for the customer. The flat butt welding system is available to splice belts as narrow as 12” or up to 83” wide. A 230V press must be used for the maximum width of 83”, and a 110V press offers a maximum width of 51”. All profiles and flat belting are compatible for splicing with this equipment.

FT ELECTRODE WELDING SYSTEM
The FT electrode welding system is lightweight and easy to use. This system uses a router to cut the bevel on the belt edges and to trim the weld. A hot air gun and Volta electrode are used for this weld option. Different electrode sizes are selected based on the thickness of belt being spliced.

VOLTA V & ROUND (VAR) PROFILES
Apache offers a wide range of Volta extruded profiles in both V and Round cross sections. This thermoplastic belting option comes in a variety of colors and durometers. They also include the ability to be reinforced, or to come with a molded grip top cover.

CUSTOM COVER
Additionally, Apache can custom cover the Vs with an assortment of compounds, including:
- Gum rubber
- Linatex®
- Nitrile
- Sponge

APPLICATIONS
Profiles are sold in 100’ reels or made endless to your specification. Many V and Round products are USDA/FDA/JTA Dairy and EU certified for food contact. These versatile belts are found in many applications including:
- Food production
- Can cable/canning lines
- Packaging
- Wood processing
- Ceramics
- Powering live rollers
- Shingle production

PULLEYS & IDLERS
Apache conveyor system accessories include a variety of pulleys, idlers, and components. Whether it is a belt to convey or elevate, Apache has the experience you can depend on to help keep your maintenance costs down by selecting the right components and belting for your application.

DRUM PULLEY
High-strength steel-faced pulleys: available with rubber lagging for improved traction.

WING PULLEY
Self-cleaning angled gussets remove excessive build-up, improving the efficiency of your conveyor system. Wing pulleys increase friction and reduce damage and abrasion on both the belt and the pulleys. Not recommended for cleated belts.

REPLACEABLE LAGGING
Vulcanized rubber bonded to metal backing that can be fitted or welded to the pulley face.

VULCANIZED RUBBER LAGGING
60 durometer SBR, available in oil resistant and MSHA. Wide variety of thicknesses and grooving patterns available, such as herringbone, chevron, and diamond.

PULLEY LAGGING
For this method of pulley lagging, a long strip of roughtop is spiralled around the pulley from end-to-end and centered for good adhesion. The ends may be notched per sketch for neat application. Bolt or screw ends intermittently throughout.

Length of strip is calculated as follows:

L = D x π x F

WARNING: Cancer and Reproductive Harm—www.P65Warnings.ca.gov
SKIRTBOARD RUBBER

Apache stocks a wide variety of materials to protect and improve conveyor system and equipment performance. SBR and Natural Rubber Skirting are used to minimize material spillage at loading and transfer points on conveyors.

**SBR SKIRTING**

Gauges/thicknesses begin at 1/8" and run through 1-1/2" for SBR skirting. Select sizes are available with at 45° beveled edge. Standard rubber skirting has a 60 durometer hardness and is available in 50 rolls for immediate shipment.

Not all available materials and applications are listed. For additional information please contact our inside sales department at 800.553.5455.

**ORANGE PAC-OR45 SKIRTING**

PAC-OR45 is a premium-quality, cost effective, containment solution used in extreme applications to reduce material spills at transfer points. Featuring outstanding wear resistance and service life, PAC-OR45 skirting is softer than your conveyor belt, ensuring an effective seal without the risk of damaging the covers of your belt.

- Sold in bulk 60" x 50' rolls or cut to your specific requirements
- Durometer: 45°/5

**PRE-CUT SBR SKIRTBOARD RUBBER**

- Durometer: 60±5
- Available in 50' rolls or cut to your specific requirements
- Other thickness & widths available
- **STANDARD SBR SKIRTBOARD WIDTHS IN INCHES FROM INVENTORY**

<table>
<thead>
<tr>
<th>Width</th>
<th>Part#</th>
<th>Roll Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>60002202 29B</td>
<td>60002203 36A</td>
</tr>
<tr>
<td>5&quot;</td>
<td>60002204 46B</td>
<td>60002205 53A</td>
</tr>
<tr>
<td>6&quot;</td>
<td>60002206 64A</td>
<td>60002207 78B</td>
</tr>
<tr>
<td>8&quot;</td>
<td>60002208 97B</td>
<td>60002209 110B</td>
</tr>
<tr>
<td>10&quot;</td>
<td>60002210 130B</td>
<td>60002211 148B</td>
</tr>
<tr>
<td>12&quot;</td>
<td>60002212 169B</td>
<td>60002213 188B</td>
</tr>
<tr>
<td>4'</td>
<td>60000019 360B</td>
<td></td>
</tr>
</tbody>
</table>

**ORANGE PAC-OR45 CONTOUR SKIRTING**

ORANGE PAC-OR45 skirting is a premium-quality, cost effective, containment solution used in extreme applications to reduce material spills at transfer points. Featuring outstanding wear resistance and service life, PAC-OR45 skirting is softer than your conveyor belt, ensuring an effective seal without the risk of damaging the covers of your belt.

- Sold in bulk 60" x 50' rolls or cut to your specific requirements
- Durometer: 45°/5

**PROFITABLE APPLICATIONS**

- **TYPICAL APPLICATIONS**
  - Slurry handling
  - Aggregate material washing & classifying
  - Under screen parts
  - Tank/haul/ hopper & bin linings
  - Pipe elbows
  - Vibrating feeders
  - Cyclones & flotation cells

**LMER LINING MATERIAL**

Apache carries a variety of materials for hopper & bin lining as well as general metal surface protection in extreme wear applications.

- Rubber - SBR & Natural RBR formulations with and without bonding layer for faster, easier installation
- Polyurethane - Available in general purpose, ceramic chip inserted applications with sharp particles or very high volumes of abrasive material and expanded metal (makes sheet rigid and flat, creates a hard point for bolt heads or cotton fabric backing (allows adhering to other substrates with commercial adhesives)
- Polyethylene: Low to ultra-high density materials are available in natural/virgin and reprocessed formulations
SCRAPERS

PAC-WEAR™ MULTI-DURO SCRAPERS

Our Bi-DURO and TRI-DURO belt scrapers are made from high quality, natural, and synthetic rubber vulcanized together to form a tight seal when used in wet and sticky scraper/squeegee applications. This material can also be used in lining, impact chute, vibration dampening, and many more other applications.

BLACK-ORANGE BI-DUROMETER RUBBER SKIRTING / BELT WIPER-SCRAPER

High quality 1635 PSI black 60A bonded to 2100 PSI orange 45A rubber. Available in 1/2", 3/4", and 1" gauge. (Custom cut widths/pcs, and bulk rolls up to 60" x 50’ are available).

BLACK-ORANGE-BLACK HEAVY DUTY TRI-DUROMETER RUBBER BELT WIPER-SCRAPER

High quality 2100 PSI orange and 45A rubber sandwiched between 2 layers of 170 PSI black 60A rubber. Available in 3/4" and 1" gauge x 6" and 8" pre-slit widths. (Custom cut widths/pcs, and bulk rolls up to 60" x 50’ are available).

BLACK-GREY-BLACK EXTREME DUTY TRI-DUROMETER RUBBER BELT WIPER-SCRAPER

High quality 2100 PSI grey 60A rubber sandwiched between 2 layers of 1700 PSI black 85A rubber. Available in 1" gauge x 6" and 8" pre-slit widths. (Custom cut widths/pcs, and bulk rolls up to 60" x 50’ are available).

INFINITY BELT SCRAPERS

With Apache's Infinity Finger Scraper, cleated, non-cleated, and textured/profiled conveyor belts are cleaned more effectively. Scrapers are designed to replace conventional bristle brush cleaners that are prone to material build up throughout the bristle.

Single or dual rows of high durometer, urethane fingers effectively clean the surface of the cleated/textured belt with their patented "flicking" motion – without the use of brush bristles that break off and eventually cause clogs, losing their effectiveness. The Infinity Finger Scraper installs easily, and is designed for high performance in any weather conditions.

- Durable aluminum body is lightweight for easy installation and efficient shipping
- Easily adaptable to field working conditions and can be located anywhere between center shaft to center shaft of your conveyor
- Highly visible wear components make it easy for maintenance and operational staff to safely inspect the system
- Paddle style fingers are composed of a highly wear resistant urethane that requires only minimal adjustments once unit is installed

Single or dual rows of high durometer, urethane fingers effectively clean the surface of the cleated/textured belt with their patented "flicking" motion – without the use of brush bristles that break off and eventually cause clogs, losing their effectiveness. The Infinity Finger Scraper installs easily, and is designed for high performance in any weather conditions.

- Durable aluminum body is lightweight for easy installation and efficient shipping
- Easily adaptable to field working conditions and can be located anywhere between center shaft to center shaft of your conveyor
- Highly visible wear components make it easy for maintenance and operational staff to safely inspect the system
- Paddle style fingers are composed of a highly wear resistant urethane that requires only minimal adjustments once unit is installed

Black-Orange Bi-Duro Rubber Skirting / Belt Wiper-Scraper

High quality 1635 PSI black 60A bonded to 2100 PSI orange 45A rubber. Available in 1/2", 3/4", and 1" gauge. (Custom cut widths/pcs, and bulk rolls up to 60" x 50’ are available).

Black-Orange-Black Heavy Duty Tri-Duro Rubber Belt Wiper-Scraper

High quality 2100 PSI orange and 45A rubber sandwiched between 2 layers of 170 PSI black 60A rubber. Available in 3/4" and 1" gauge x 6" and 8" pre-slit widths. (Custom cut widths/pcs, and bulk rolls up to 60" x 50’ are available).

Black-Grey-Black Extreme Duty Tri-Duro Rubber Belt Wiper-Scraper

High quality 2100 PSI grey 60A rubber sandwiched between 2 layers of 1700 PSI black 85A rubber. Available in 1" gauge x 6" and 8" pre-slit widths. (Custom cut widths/pcs, and bulk rolls up to 60" x 50’ are available).
CUT & MOLDED PRODUCTS

We turn ideas into solutions. Our product and engineering staff are here to help, partnering with you to develop quality, cost-effective, cut and molded parts. Plus, with locations across the U.S., we provide fast customer response and service time.
CUT PARTS

At Apache, our experience and fabrication capabilities have made us a leader in the production of cut parts since 1963. Parts are processed to exact specifications using your CAD files (.dxf, .dwg formats). If files are not available, we can identify and replicate the part you need.

CUTTING PROCESSES

We produce our customers’ parts using one of four cutting processes: waterjet, flashcut, die-cut and hand-cut.

WATERJET

Waterjet cutting allows for the precision cutting of custom parts when extremely tight tolerances are critical or complicated patterns are called for. This CNC-controlled process produces parts with exceptional quality and clean cut edges without causing thermal damage. What’s more, the waterjet can be used to cut a wide range of materials and dimensions.

FLASHCUT

Die-less knife cutting offers the precision and tight tolerances of a waterjet without the use of water. The CNC-controlled flashcut operates on AutoCAD files like a waterjet, and is ideal for cutting soft and semi-rigid materials without the mess and cleanup of water cutting.

DIE-CUT

Die-cutting results in very precise parts with tight tolerances. It can be used to produce both low- and high-volume production runs in a wide range of materials.

HAND-CUT

Hand-cutting is often the right choice for certain limited quantity, lower-tolerance and prototype parts. Our craftsmen have the skill to produce prototypes and low-volume production runs from a wide variety of materials and for a range of industries.

INDUSTRIES SERVED

- Agricultural
- Automotive
- Chemical
- Construction & Concrete
- Electrical
- Fitness
- Food & Beverage
- Government
- Heavy Equipment
- High-Tech
- Hydroelectric
- Industrial
- Irrigation
- Manufacturing
- Marine
- Material Handling
- Military
- Municipalities
- Oil & Gas
- Power
- Pulp & Paper
- Rail & Bridge
- Recreation
- Robotics
- Trucking & Transport
- Utilities
- Waste Water
CUT RUBBER MATERIAL OPTIONS CONTINUED

<table>
<thead>
<tr>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>Butyl (CR / isobutyl-isoprene): Excellent weathering and aging properties with low air permeability. Good physical properties. Poor resistance to petroleum-based fluids. TEMP: -32°F to +257°F</td>
</tr>
<tr>
<td>EPDM (ethylene-propylene diene): Excellent ozone, chemical, heat and aging resistance. Poor resistance to petroleum-based fluids. TEMP: -40°F to +200°F</td>
</tr>
<tr>
<td>Silicone (SI / Dimethyl-Polysiloxane): Excellent high and low temperature properties, fair physical properties. TEMP: 20°F to +500°F</td>
</tr>
<tr>
<td>Hypalon® (CSM / chloro-sulfonated polyethylene): Excellent ozone, weathering, and acid resistance. Good abrasion and heat resistance. Fair resistance to petroleum-based fluids. TEMP: 20°F to +300°F</td>
</tr>
<tr>
<td>Natural Rubber (NR / Gum Rubber): Excellent physical properties, including abrasion and resistance. Good flexibility at low temperature. Poor resistance to petroleum-based fluids. TEMP: 20°F to 120°F</td>
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<td>Neoprene (CR / polychloroprene): Good weather resistance and good inherent flame resistance. Moderate resistance to petroleum-based fluids. Good physical properties. TEMP: 20°F to 100°F</td>
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<td>Nitrile (NBR / Buna-N / butadiene-acrylonitrile): Excellent resistance to petroleum-based fluids. Good physical properties. TEMP: -40°F to +200°F</td>
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<tr>
<td>Silicone (SI / Dimethyl-Polysiloxane): Excellent high and low temperature properties, fair physical properties. TEMP: -40°F to +500°F</td>
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MOLDED RUBBER PARTS

We manufacture molded parts using modern computer-controlled and monitored presses. We offer both compression and transfer molding production processes, and we can help you determine which method is best for your application.

COMPRESSION MOLDING

Compression molding is ideal for products with industrial tolerances (typically RMA Commercial-A3). This process produces less scrap material weight and the tooling typically costs less than other transfer molding. Product sizes range from very small to up to 12 feet long.

TRANSFER MOLDING

Transfer molding can produce tighter tolerance parts than compression molding and generally leaves less flash on the mold parting line.

EXTRUDED PARTS

Apache has the capability to create extruded parts from a wide variety of compounds. Customers can choose from a vast selection of extrusion die profiles, or our in-house die shop can rapidly create one for quick production.

EXTRUSIONS

Extrusions can be processed into cut-to-length pieces, hot-vulcanize spliced to specific lengths or preformed for un-split applications. We cure extruded parts using static vulcanization to a typical tolerance of RMA Commercial Class E3.

SPECIALTY SERVICES

Have multi-component parts that need to be delivered ready to install? We offer sub-assembly services to save you time and money!
OTHER SPECIALTY SERVICES

In addition to producing custom cut, molded, and extruded parts, Apache has many years of experience with custom fabrication, vulcanization, and bonding.

CUSTOM FABRICATIONS / SPECIALTY SERVICES
- Boots/Sleeves
- Hole punching/perforating
- Laminating
- PSA application (pressure sensitive adhesive)
- Stiffening
- Splicing
- Stripping
- Vulcanizing
- Sub-assembly
- Labeling
- Packaging
- Kitting

RUBBER Vulcanization and Rubber-to-Metal Bonding
Parts for vulcanization and rubber-to-metal bonding require specific preparation processes to ensure proper adhesion of the materials. The team at Apache will design a process for your parts that meet the requirements of your industry and application.

COMPOUNDING / BLENDING CAPABILITIES
Standard and custom-blended compounds are produced to your requirements in specific batch sizes made for each application and production run. Small prototype or large production batch runs are available for almost any size, shape or quantity of extruded or molded product.

REFERENCE CHARTS

Need more detailed information about any of our belting materials? Use the following charts – which include resistance ratings for an exhaustive list of chemicals – to pick the right belt for your application.

WARNING: Cancer and Reproductive Harm–www.P65Warnings.ca.gov

WARNING: Cancer and Reproductive Harm–www.P65Warnings.ca.gov
## CHEMICAL RESISTANCE

<table>
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<tr>
<th>CHEMICAL</th>
<th>PVC</th>
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### WARNING: Cancer and Reproductive Harm–www.P65Warnings.ca.gov
<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>PVC</th>
<th>POLY VINYL CHLORIDE</th>
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<th>POLY VINYL CHLORIDE</th>
<th>REFERENCE CHARTS</th>
<th>CHEMICAL RESISTANCE</th>
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</thead>
</table>

**CHEMICAL RESISTANCE**

**TEMPERATURE RANGE**

- **0°F TO 180°F**
- **-20°F TO 200°F**
- **-25°F TO 250°F**
- **0°F TO 250°F**
- **-20°F TO 400°F**
- **-65°F TO 300°F**
- **-40°F TO 200°F**

**REFERENCE CHARTS**

- PVC
- Poly Vinyl Chloride

**CHEMICAL**

- Coal Oil
- Coconut Oil
- Copper Chloride
- Copper Sulfate
- Creosote
- Cresylic Acid
- Denatured Alcohol
- Developing Liquids
- Diethylene Glycol
- Diesel Oil
- Diacetone Alcohol
- Diesel Oil
- Ethyl Alcohol
- Ethylene Glycol
- Ethyl Cellosolve
- Ethyl Cellosolve
- Ethylene Glycol
- Fatty Acids
- Ferric Chloride
- Ferric Sulfate
- Formaldehyde
- Formic Acid
- Formic Acid
- Fuel Oil
- Fuel Oil
- Furfural

**QUESTIONS & RESPONSES**

- What are the temperature ranges for chemical resistance?
  - **0°F TO 180°F**
  - **-20°F TO 200°F**
  - **-25°F TO 250°F**
  - **0°F TO 250°F**
  - **-20°F TO 400°F**
  - **-65°F TO 300°F**
  - **-40°F TO 200°F**

- What are the materials listed under PVC, Poly Vinyl Chloride, and Reference Charts?
  - PVC
  - Poly Vinyl Chloride
  - Reference Charts

- What are the chemical names listed?
  - Coal Oil
  - Coconut Oil
  - Copper Chloride
  - Copper Sulfate
  - Creosote
  - Cresylic Acid
  - Denatured Alcohol
  - Developing Liquids
  - Diethylene Glycol
  - Diesel Oil
  - Diacetone Alcohol
  - Diesel Oil
  - Ethyl Alcohol
  - Ethylene Glycol
  - Ethyl Cellosolve
  - Ethyl Cellosolve
  - Ethylene Glycol
  - Fatty Acids
  - Ferric Chloride
  - Ferric Sulfate
  - Formaldehyde
  - Formic Acid
  - Formic Acid
  - Fuel Oil
  - Fuel Oil
  - Furfural

**NOTES**

- WARNING: Cancer and Reproductive Harm—www.P65Warnings.ca.gov
<table>
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<tr>
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### Chemical Resistance

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<th>Abrasion Resistance</th>
<th>Temperature Range</th>
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<td>G</td>
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<td>E</td>
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<td>Tanning Liquor</td>
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<td>Tolu. Bisulphite</td>
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<td>G</td>
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<td>Trichlorosilane</td>
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<td>NR</td>
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<td>Tung Oil</td>
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<td>U</td>
<td>G</td>
<td>0°F to 180°F</td>
</tr>
</tbody>
</table>

**CHEMICAL RESISTANCE**

**WARNING:** Cancer and Reproductive Harm–www.P65Warnings.ca.gov

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**CHEMICAL RESISTANCE**

- PVC – Poly Vinyl Chloride (PVC) is biologically and chemically resistant. PVC can be formulated to meet fire resistant and anti-static requirements.
- RAV – Rubber and Vinyl (RAV), also known as RMV, is a refined PVC formulation. It offers high resistance to fats, oils and chemicals. It is a popular compound for use in food applications.
- Urethane – Urethane is a good choice for rough and/or oily applications. It enjoys excellent abrasion and oil resistance and/or oily applications. It enjoys excellent abrasion and oil resistance.
- Urethane – Urethane is a good choice for rough and/or oily applications. It enjoys excellent abrasion and oil resistance and/or oily applications. It enjoys excellent abrasion and oil resistance.
- Natural Rubber – Natural Rubber or Polyisoprene exhibits abrasion, gouge and cut resistance. It is generally used in non-marking belts.

**REFERENCE CHARTS**

**WARNING:** Cancer and Reproductive Harm–www.P65Warnings.ca.gov

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**REFERENCE CHARTS**

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**WARNING:** Cancer and Reproductive Harm–www.P65Warnings.ca.gov
**CONVEYOR BELT SPEEDS & FORMULAS**

**CONVEYOR BELT SPEEDS & PULLEY REVOLUTIONS PER MINUTE & FORMULAS**

<table>
<thead>
<tr>
<th>DIAMETER OF PULLEY IN INCHES</th>
<th>BELT SPEEDS IN FEET PER MINUTE</th>
<th>PULLEY REVOLUTIONS PER MINUTE</th>
</tr>
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<tbody>
<tr>
<td>12</td>
<td>516</td>
<td>127.3</td>
</tr>
<tr>
<td>14</td>
<td>577</td>
<td>132.4</td>
</tr>
<tr>
<td>16</td>
<td>638</td>
<td>137.5</td>
</tr>
<tr>
<td>18</td>
<td>700</td>
<td>142.6</td>
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<td>20</td>
<td>761</td>
<td>147.7</td>
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<tr>
<td>22</td>
<td>823</td>
<td>152.8</td>
</tr>
<tr>
<td>24</td>
<td>884</td>
<td>157.9</td>
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<td>26</td>
<td>946</td>
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<td>28</td>
<td>1008</td>
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<td>30</td>
<td>1070</td>
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<tr>
<td>32</td>
<td>1132</td>
<td>178.3</td>
</tr>
<tr>
<td>36</td>
<td>1294</td>
<td>183.4</td>
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</table>

**BELT SPEED FORMULA**

\[ S = 0.2618 \times D \times \text{RPM} \]

**SHAFT SPEED FORMULA**

\[ \text{RPM} = \frac{D \times S}{0.2618 \times D} \]

**CALCULATING BELT LENGTH**

- **C** - Center to Center distance (inches)
- **D** - Diameter of Drive Pulley (inches)
- **D** - Diameter of Tail Pulley (inches)
- **L** - Belt Length (inches)

For a two pulley system with no snub pulley:

\[ L = x \times 3.1416 + 2CD + \frac{D + d}{2} \]

**METRIC / IMPERIAL FABRIC & TENSION RATINGS**

- **EP** designates working tension, and is measured as "pounds per inch of width".
- **EP** plus the number/rating designates breaking strength, not working tension, and is measured using metric unit — Newtons/millimeters.

**CONVERSION METHOD FOR CONVERTING EP RATING TO PIW RATING**

\[ \text{PIW} = \frac{\text{EP} \times 0.571}{\text{PIW}} \]

**CONVEYOR DESIGN INFORMATION DECIMAL & METRIC EQUIVALENTS**

<table>
<thead>
<tr>
<th>EQUIVALENTS OF AN INCH</th>
<th>INCHES</th>
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<td>1</td>
<td>0.0625</td>
<td>1.5875</td>
</tr>
<tr>
<td>1/16</td>
<td>0.0625</td>
<td>1.5875</td>
</tr>
<tr>
<td>3/32</td>
<td>0.09375</td>
<td>2.38125</td>
</tr>
<tr>
<td>1/8</td>
<td>0.125</td>
<td>3.175</td>
</tr>
<tr>
<td>5/32</td>
<td>0.15625</td>
<td>3.96875</td>
</tr>
<tr>
<td>3/16</td>
<td>0.1875</td>
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<td>1/4</td>
<td>0.250</td>
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<td>9/32</td>
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<td>5/16</td>
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</tr>
<tr>
<td>11/32</td>
<td>0.34375</td>
<td>8.73125</td>
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**METRIC / IMPERIAL FABRIC ABBREVIATIONS**

- **Polyester**
- **Nylon**
- **Poly/Nylon**
- **Nylon/Nylon**
- **Poly/Poly**

**CONVERSION CHARTS**

**WARNING:** Cancer and Reproductive Harm—www.P65Warnings.ca.gov

Even when metric fabric belts are all nylon or some other fabric combination, they are at times incorrectly referred to as EP class belts.
## CLEAT CENTER (PITCH) LOCATIONS FOR VOLTA POSITIVE DRIVE BELTS

Please use the chart below when using Volta's positive drive belts – SuperDrive™, DualDrive, and DualDrive Small Pulley – to complete the Volta Cleat Design Worksheet on p. 102. Cleats on these belts must be placed between lugs located on the bottom of the belt. The chart below will give you the center to center dimensions needed.

### VOLTA CENTER TO CENTER (PITCH) DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>SUPERDRIVE™ (SD) CENTER TO CENTER</th>
<th>DUALDRIVE (DP) CENTER TO CENTER</th>
<th>DUALDRIVE SMALL PULLEY (DDSP) CENTER TO CENTER</th>
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<tbody>
<tr>
<td><strong>R OF LUGS</strong></td>
<td><strong>MM</strong></td>
<td><strong>INCHES (DECIMALS)</strong></td>
<td><strong>INCHES (FRACTIONS)</strong></td>
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<td>3.126</td>
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<tr>
<td>3</td>
<td>191.1</td>
<td>7.531</td>
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<td>4</td>
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<td>8</td>
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<td>30</td>
<td>2693.9</td>
<td>104.861</td>
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</table>
**BELT SELECTION WORKSHEET**

Here’s what we need from you.

Follow this process to collect and provide the information that will allow Apache and to help you select the best solution for your application. Experienced sales team members are just a phone call away, and knowledgeable field representatives are available when a site visit may be necessary.

1. If the current belt is not providing satisfactory service, then complete this survey to the fullest extent possible.
2. If the name and manufacturer of the belt is known, call us. We will cross reference to a quality Apache product.
3. If this is a new application, or if the current belt is providing satisfactory service, then complete this survey to the fullest extent possible.

---

### FABRICATIONS

- **Lacing**
  - Mechanical fastener:
  - Standard, recessed, overlap, hidden
- **Endless**
  - Vulcanized skived splice:
  - Finger splice:
  - Double finger splice:
  - Prepared ends for finger:
  - Prepared ends skived
- **Custom Cleating**
  - Cleat style:
  - Height (inches):
  - Centers
- **Tracking Guides**
  - Tracking guide size:
  - Number of guides:
  - Centers off belt edge:
  - Hole punching:
  - Splice / lacing:
  - Color:
  - Overall gauge (belt thickness):
  - Exact length (mm/in):
  - Belt length:
  - Belt style:
  - Minimum pulley diameter:
  - Head pulley diameter:
  - Tail pulley diameter:
  - Live load/FT:
  - Conveyor type:
  - Drive configuration:
  - Belt speed FPM:
  - Conveyor width (between frames):
  - Conveyor length:
  - Conveyor slope:
  - Product being conveyed:
  - Food product:
  - Ambient temp:
  - Product temp:
  - Oil condition:
  - Chemical condition:
  - Capacity average:
  - Capacity maximum:
  - Drop to belt (feet):
  - Pulley diameter:
  - Center to center of pulley:
  - Minimum pulley diameter:
  - Drive pulley placement (front, back, center):
  - Degree of wrap (90°, 180°, 210°, etc.):
  - Level of the Belt:
  - Slender Bed Material:
    - Steel plate (smooth, corrugated, perforated, strips):
    - UHMW (strips, solid):
    - Trough, degree:
  - Take Up:
    - Type (manual screw, pulley, quick master cylinder):
    - Location:
    - Conditions:
    - Product temp:
    - Product being conveyed:
    - Product weight:
    - Product accumulation:
  - Cleaning agent(s) used:
  - Cleaning agent(s) used:
  - Product accumulation:
  - Presence of oil, water, or grease? (specify)
  - Presence of solvents or acids? (specify)
  - Cleaning agent(s) used:
  - Previous belt history:
  - Style:
  - Manufacturer:
  - Ply:
  - Belt life:
  - Reason for failure or replacement:
  - Any other pertinent information about this application:

---

**VOLTA BELT SELECTION WORKSHEET**

Here’s what we need from you.

Follow this process to provide the information that will allow Apache to help you select the best Volta solution for your application. Experienced sales team members are just a phone call away, and knowledgeable field representatives are available when a site visit may be necessary.

---

### FABRICATIONS

- **Lacing**
  - Mechanical fastener:
  - Standard, recessed, overlap, hidden
- **Endless**
  - Vulcanized skived splice:
  - Finger splice:
  - Double finger splice:
  - Prepared ends for finger:
  - Prepared ends skived
- **Custom Cleating**
  - Cleat style:
  - Height (inches):
  - Centers
- **Tracking Guides**
  - Tracking guide size:
  - Number of guides:
  - Centers off belt edge:
  - Hole punching:
  - Splice / lacing:
  - Color:
  - Overall gauge (belt thickness):
  - Exact length (mm/in):
  - Belt length:
  - Belt style:
  - Minimum pulley diameter:
  - Head pulley diameter:
  - Tail pulley diameter:
  - Live load/FT:
  - Conveyor type:
  - Drive configuration:
  - Belt speed FPM:
  - Conveyor width (between frames):
  - Conveyor length:
  - Conveyor slope:
  - Product being conveyed:
  - Food product:
  - Ambient temp:
  - Product temp:
  - Oil condition:
  - Chemical condition:
  - Capacity average:
  - Capacity maximum:
  - Drop to belt (feet):
  - Pulley diameter:
  - Center to center of pulley:
  - Minimum pulley diameter:
  - Drive pulley placement (front, back, center):
  - Degree of wrap (90°, 180°, 210°, etc.):
  - Level of the Belt:
  - Slender Bed Material:
    - Steel plate (smooth, corrugated, perforated, strips):
    - UHMW (strips, solid):
    - Trough, degree:
  - Take Up:
    - Type (manual screw, pulley, quick master cylinder):
    - Location:
    - Conditions:
    - Product temp:
    - Product being conveyed:
    - Product weight:
    - Product accumulation:
  - Cleaning agent(s) used:
  - Cleaning agent(s) used:
  - Product accumulation:
  - Presence of oil, water, or grease? (specify)
  - Presence of solvents or acids? (specify)
  - Cleaning agent(s) used:
  - Previous belt history:
  - Style:
  - Manufacturer:
  - Ply:
  - Belt life:
  - Reason for failure or replacement:
  - Any other pertinent information about this application:
### VOLTA CUSTOM CLEATING DESIGN WORKSHEET

Here’s what we need from you.

Follow this process to provide the information that will allow Apache to help you select the best Volta cleat solution for your application. Experienced sales team members are just a phone call away, and knowledgeable field representatives are available when a site visit may be necessary.

#### CLEAT STYLE
- **Footed Throatline:** Straight, Blunt, Round, Tapered, Notch-Outs, Tapers
- **Height:** 3 mm, 4 mm, 5 mm, 6 mm, 8 mm
- **Footed (see table below):**
  - **Height:** 3 mm, 4 mm, 5 mm, 6 mm, 8 mm
  - **Lip Size (mm):** 25, 38, 50, 63
- **Footless thinline:** Straight, 70° Angle, 45° Scoop, 65° Scoop, 90° Scoop
- **Height:** 10 mm, 15 mm, 30 mm, 40 mm, 50 mm, 60 mm, 80 mm, 100 mm, 130 mm, 150 mm
- **Colours:** White, Blue

#### VOLTA FOOTLESS SIDEWALL DESIGN WORKSHEET

Here’s what we need from you.

To ensure your belt is manufactured with the proper footless sidewall specifications and proper placement on base belt, please refer to the below diagrams and complete the following:

#### BELT LENGTH AND WIDTH
- **Length:**
- **Width (see illustration, #1):**

#### SIZE OF SIDEWALL (#2)
- **Height:** 30 mm, 40 mm, 50 mm, 60 mm, 80 mm, 100 mm, 150 mm
- **NOTES:** Not all cleat options are available on all Volta belt styles. Not all cleat thicknesses are recommended for all heights.

#### PLEASE NOTE PLACEMENT OF SIDEWALL
- **Flush with edge of belt:**
- **Indent from belt edge to corrugation (#3):**

#### INSIDE SPACE BETWEEN SIDEWALL
- **Center to center of sidewall (#4):**
- **Center to center of sidewall (#5):**

#### PLACEMENT OF CLEATS (IF APPLICABLE)
- If cleats are required, please first complete the Volta Cleat Worksheet, then complete the cleat placement questions below in regards to sidewall:
  - **Cleat spacing (distance between ends of cleats and inside of sidewall):**
  - **Standard gap is 1/4”, but can be reduced to 1/8”.**
  - **IMPORTANT NOTE:** Wall corrugations are NOT symmetrical from one side of the belt to the other, cleats will not always align with the inside convolutions of the sidewall.

#### ADDITIONAL SIDEWALL TO BE LEFT LOOSE FOR FIELD JOINING?

- **Additional sidewall to be left loose for field joining:**

#### FOOTLESS SIDEWALL MINIMUM PULLEY DIAMETERS

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<th>Thickness (mm)</th>
<th>Back Flex</th>
<th>2.0 mm Belt Thickness</th>
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### NOTES
- Not all cleat options are available on all Volta belt styles. Not all cleat thicknesses are recommended for all heights.

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WARNING: Cancer and Reproductive Harm–www.P65Warnings.ca.gov

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WARNING: Cancer and Reproductive Harm–www.P65Warnings.ca.gov

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To ensure your belt is manufactured with a proper sidewall specification, please refer to the below diagrams and complete the following:

- **BELT STYLE:**
  - **Part #:**
  - **Description:**

- **BELT LENGTH AND WIDTH:**
  - **Length:**
  - **Width:**

- **SIDEWALL WIDTH (#4):**
  - **Style:** T-cleat, scoop, lug:
  - **Flush to foot of wall / flush to corrugation / indent from sidewall cleat?**

- **INTERNAL SPACE BETWEEN SIDEWALL:**
  - **Center to center of sidewall (#4):**
  - **Inside corrugation to inside corrugation (#5):**

- **NOTE PLACEMENT OF CLEATS (IF APPLICABLE):**
  - **Cleat height:**
  - **Cleat spacing:**
  - **Cleat width:**
  - **Style: T-cleat, scoop, lug:**
  - **Flush to foot of wall / flush to corrugation / indent from sidewall cleat?**
  - **Additional sidewall to be left loose for field joining?**

**DUROWALL™ DIMENSIONS**

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<th>HEIGHT &quot;H&quot;</th>
<th>INCH</th>
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*Note: All lightweight, white Durowall sidewall is measured using the standard metric system.*

**LIGHTWEIGHT DUROWALL™ DESIGN WORKSHEET**

**HEAVY-DUTY DUROWALL™ DESIGN WORKSHEET**

Copies of this data sheet can be used to help determine your belting requirements. Accurate and complete information is necessary to recommended the proper solution for your application.

- **CONTACT INFORMATION**
  - **City:**
  - **State:**
  - **Zip:**

- **Contact:**
  - **Phone:**
  - **Fax:**

- **Ref. Info.:**
  - **Material:**

- **Density:**
  - **Size:**
  - **Min:**
  - **Max:**

- **Surcharge:**
  - **Temperature:**
  - **Min:**
  - **Max:**

- **Capacity:**
  - **Belt speed (check ____ if maximum):**

- **Width preference:**
  - **Pulley diameter (check ____ if maximum):**

- **Oil resistance required?**
  - **Yes**

- **No**

**EXISTING BELT SPECIFICATION FOR REPLACEMENT PART/PRICING**

- **Belt length:**
  - **Belt Type:**
  - **Horizontal of incline (A):**

- **Belt width (BW):**
  - **Pullery Dia.:**
  - **Infeed/or horiz. conv. (C):**

- **Sidewall height (H):**
  - **Defl. Dia.:**
  - **Incline angle (E):**

- **Sidewall recess (R):**
  - **Cleat Type:**
  - **Discharge (G):**

- **Sidewall width (SW):**
  - **Cleat Spacing:**
  - **Incline length (E):**

- **Effective width (EW):**
  - **Cleat Fastened to Wall?:**
  - **Incline angle (F):**

- **Cleat height (C):**
  - **Fasteners:**
  - **Horizontal length (G):**
**ELEVATOR BELT PUNCHING DIAGRAM WORKSHEET**

**Here's what we need from you.**

- **CENTERED BUCKETS**
  - Distance from end of belt to first row of buckets (mm/in):
  - Punch pattern (see below):
  - Center distance between holes (mm/in):
  - Hole Diameter (mm/in):
  - Row centers (mm/in):
  - or N/A?
  - Bucket centers (mm/in):
  - Belt width:
  - Belt length:
  - Special Instructions:

- **STAGGERED BUCKETS**
  - Diameter of holes to be punched (mm/in):
  - Punch pattern (see below):
  - Center distance between holes (mm/in):
  - Hole Diameter (mm/in):
  - Row centers (mm/in):
  - or N/A?
  - Bucket centers (mm/in):
  - Belt width:
  - Belt length:
  - Center to center outside holes (mm/in):
  - Special Instructions:

- **CUSTOM BUCKETS**
  - Belt width (mm/in):
  - Bucket centers (mm/in):
  - Distance from end of belt to first row of buckets (mm/in):
  - Distance between first row and second row of holes (mm/in):
  - Diameter of holes to be punched (mm/in):
  - Special Instructions:

**BELT PUNCHING DIAGRAM**

- P-1
- P-3
- P-5
- P-7
- P-8
- P-2
- P-4
- P-6
- P-9

**HOLE PUNCH PATTERN WORKSHEET**

**Here's what we need from you.**

Please mark which hole punch pattern you are requesting.

**DIMENSIONAL DATA**

- Pattern Type:
- Hole Diameter:
- Left side margin (LSM):
- Right side margin (RSM):
- Length center (LC):
- Length offset center (LOC):
- Width center (WC):
- Width offset center (WOC):
- EM (Butt ends only):
  - EM = Center line of last holes to belt end.
- Any other pertinent information about this application:

**RETURN TO: REF. P.O.#:**

CORPORATE OFFICE
4805 Bowling Street SW / Cedar Rapids, IA 52404

INDUSTRIAL SALES
800.553.5455
FAX
319.365.2522
EMAIL
salescr@apache-inc.com
WWW.APACHE-INC.COM

**WARNING:** Cancer and Reproductive Harm–www.P65Warnings.ca.gov
**CUT PARTS WORKSHEET**

Here's what we need from you.

- **CAD DRAWING OF THE PART WITH TOLERANCES.** If material tolerances are not present, please tell us about the most critical dimensions (.dxf/.dwg file to cut from).

- **SAMPLE OF THE PART (IF AVAILABLE).** The sample will help us to determine what method of manufacturing has been used in the past.

- **MATERIAL SPECIFICATIONS OR POLYMER TYPE:**
  - Material:
  - Shore A durometer:
  - Density:
  - Tensile:
  - Elongation:
  - Compression set:
  - UL recognition:
  - FDA (or other requirements):
  - PSA (Pressure Sensitive Adhesive):
  - Color:

- **TELL US ABOUT THE ENVIRONMENT WHERE THE PART WILL BE USED:**
  - Temperature:
  - Chemicals:
  - Ozone:
  - Application:

- **HOW WILL THE PART BE USED?** This is helpful in determining the part’s critical features.

- **QUANTITY AND ESTIMATED ANNUAL USAGE:**
  - Do you require the parts all at once?
  - Is this a blanket order with periodic releases? At what intervals?
  - Or is this an repetitive, ongoing order?

- **DELIVERY REQUIREMENTS:**
  - When do you need the first shipment?
  - What is your preferred shipping method?

- **PACKAGING REQUIREMENTS OTHER THAN STANDARD BULK PACK:**
  - Labels (part number, UPC)?
  - Bagged or boxed quantity?

---

**MOLDED & EXTR UDED PARTS WORKSHEET**

Here's what we need from you.

- **CAD DRAWING OF THE PART WITH TOLERANCES.** If rubber tolerances are not present, please tell us about the most critical dimensions (.stp or .igs file for tooling).

- **SAMPLE OF THE PART (IF AVAILABLE).** The sample will help us to determine what method of manufacturing has been used in the past.

- **MATERIAL SPECIFICATIONS OR POLYMER TYPE:**
  - Material:
  - Shore A durometer:

- **TELL US ABOUT THE ENVIRONMENT WHERE THE PART WILL BE USED:**
  - Temperature:
  - FDA (or other requirements):
  - Chemicals:
  - Ozone:
  - Application:

- **HOW WILL THE PART BE USED?** Statically, dynamically, for sealing, etc.? This is helpful in determining a part’s critical features.

- **QUANTITY AND ESTIMATED ANNUAL USAGE:**
  - Do you require the parts all at once?
  - Is this a blanket order with periodic releases? At what intervals?
  - Or is this an repetitive, ongoing order?

- **TOOLING:**
  - For molded parts, does tooling already exist?
  - If yes, do you own the tooling?
  - What type is it? Compression, transfer or injection?
  - Can it be moved from your current supplier?

- **DELIVERY REQUIREMENTS:**
  - When do you need the first shipment?
  - What is your preferred shipping method?

- **PACKAGING REQUIREMENTS OTHER THAN STANDARD BULK PACK:**
  - Labels (part number, UPC)?
  - Bagged or boxed quantity?
FOAM & SPONGE WORKSHEET

Here’s what we need from you.

- **CAD DRAWING OF THE PART WITH TOLERANCES.** If material tolerances are not present, (and they frequently are not) inquire about the most critical dimensions. (R.M.A. Tolerances)

- **SAMPLE OF THE PART (IF AVAILABLE).**

- **MATERIAL SPECIFICATIONS OR POLYMER TYPE**
  - The full ASTM (American Society for Testing & Materials) call-out of the material is best
  - If the ASTM is not available, please provide specifications for:
    - Material:
    - Closed or open cell:
    - Shore 00 durometer:
    - Density:
    - Tensile. (die A):
    - Tear strength. (die C):
    - Elongation. (die A):
    - Compression deflection:
    - Compression set:
    - UL recognition:
    - FDA (or other requirements):
    - PSA (pressure sensitive adhesive, rubber or acrylic based):
    - Color:

- **TELL US ABOUT THE APPLICATION AND ENVIRONMENT WHERE THE PART WILL BE USED:**
  - Service temperature:
  - Chemical contact:
  - Ozone resistance:
  - Water absorption:
  - Combustion characteristics:
  - Application:

- **QUANTITY AND ESTIMATED ANNUAL USAGE:**
  - Do you require the parts all at once?
  - Is this a blanket order with periodic releases? At what intervals?
  - Is this a repetitive, ongoing order?

- **DELIVERY REQUIREMENTS:**
  - When do you need the first shipment?
  - What is your preferred shipping method?

- **PACKAGING REQUIREMENTS OTHER THAN STANDARD BULK PACK:**
  - Labels (part number, UPC)?
  - Bagged or boxed quantity?

- **TARGET:**
  - Current price and current supplier?
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