

F&D



Lightweight Conveyor Belting and Power Transmission Specialists

CLEATING AND ATTACHMENTS

F&D



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F&D O'Connor Pty Ltd are the proud owners of:

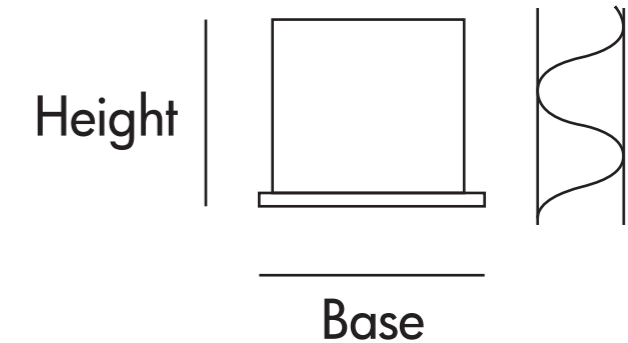


Wave Wall

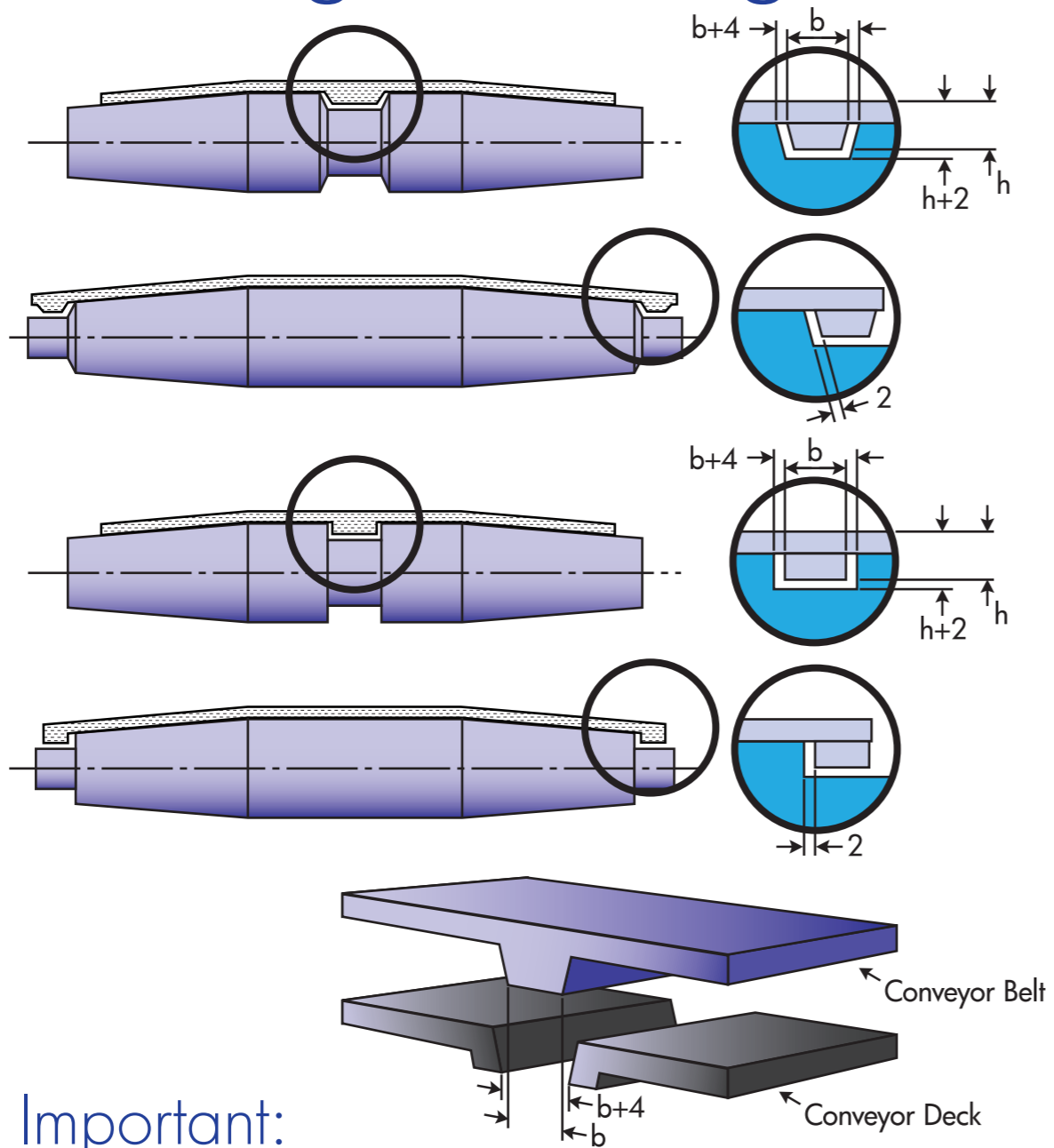


F & D O'Connor Pty Ltd offers flexible polyurethane wave wall. Wave wall has a high resistance to wear and abrasion. Wave walls effectively serve the purpose of retaining materials and goods on the conveyor belt, in particular fluid like substances. Wave wall is able to be applied to both PVC and Polyurethane conveyor belting.

| Wave Wall | Height | Base |
|-------------|--------|------|
| WAVEWALL-30 | 30 | 32 |
| WAVEWALL-40 | 40 | 32 |
| WAVEWALL-60 | 60 | 54 |
| WAVEWALL-80 | 80 | 54 |



Tracking Rib Design Criteria



Important:

Tracking ribs can only absorb brief lateral forces. The basic tracking of the belt is influenced by the trapezoidal shape of the drum. Tracking ribs may be used in wedge or rectangular shape. In order to avoid edge contact of the ribs on the drive or tail drums, the grooves should be approximately 10mm wider than the rib. For grooved decks, a clearance of 5mm either side of the rib is sufficient. The groove depth must be increased when working under high contamination conditions.

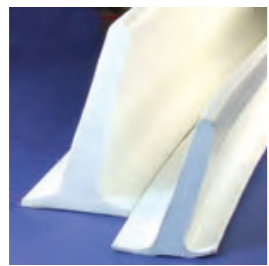
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Introduction

There are a number of different profiles that F&D O'Connor Pty Ltd can weld onto your conveyor belt to meet your requirements.

To assist you in determining the best product for your application, the following pages contain detailed information and technical data on cleating and attachments offered by F&D O'Connor Pty Ltd.



Cleats

Cleats are used to aid in the transfer of product on incline and decline Conveyor Belts.



Tracking Ribs

Tracking Ribs are welded onto Conveyor Belts in various applications to aid in the tracking of the belt.



Flexible Wave Wall

Wave Wall is used in many applications to confine the product or goods to the Conveyor Belt.

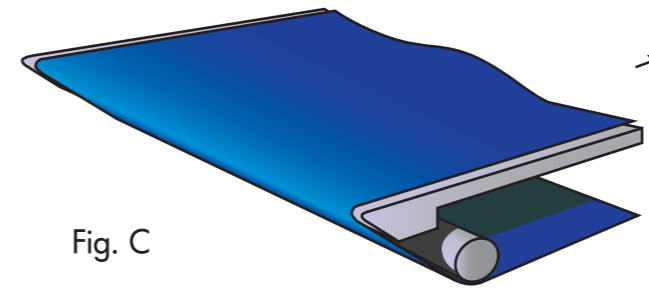


Fig. C

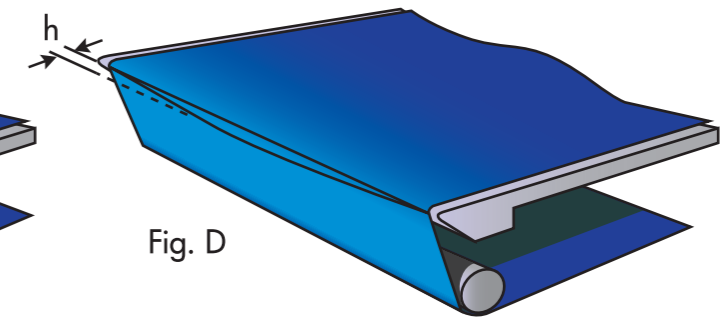


Fig. D

| | | | |
|------------------|------|----------|-------|
| Belt Width (mm) | <500 | 500-1000 | >1000 |
| Dimension h (mm) | 0.5 | 1.0 | 1.5 |

Knife Edges that return on sharp angles experience increased tension and frictional heat as per Fig. C. For sharp angles rotating knife edges are suggested.

The arc of contact of a knife edge should be as limited as possible as per Fig. D. Recommended radius of the knife edge should be 3-7mm.

Generally automatic tracking devices are employed on parallel knife edges, however, crowned knife edges have proven successful on shorter conveyors. Crowned knife edges and automatic trackers should not be used in conjunction with each other.

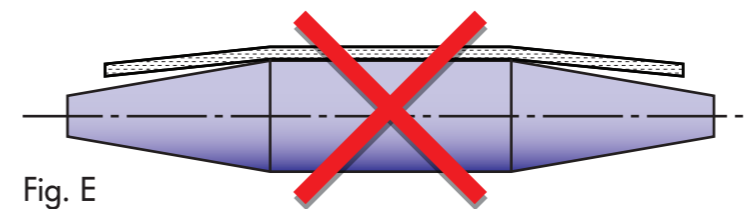


Fig. E

An excessive trapezoidal design does not produce any tracking power as the belt does not pull against the drum surface (Fig. E).

Crowning Specifications

The design of the drive drum is determined by the belt type, the construction, conveying capacity and the media to be conveyed. Our experience proves that the drive drum should be trapezoidal (Fig. A). The drive drum may be designed cylindrical as long as other tracking and control units are incorporated.

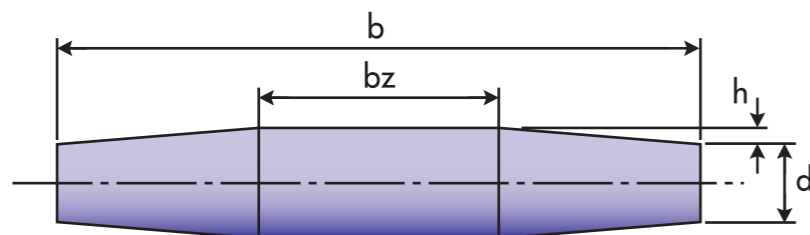


Fig. A

Recommended Crowning Information

Step 1: To calculate the crowning height (h)

| | | | |
|---------------|------|---------|------|
| Drum Ø d (mm) | <200 | 200-500 | >500 |
| Height h (mm) | 1.0 | 1.5 | 2.0 |

Step 2: To calculate the cylindrical section (bz)

| | | | |
|----------------------|---------|-------|-------|
| Width of Drum b (mm) | <200 | <1000 | >1000 |
| Cylindrical part bz | ISOR100 | 1/3 b | 1/2 b |

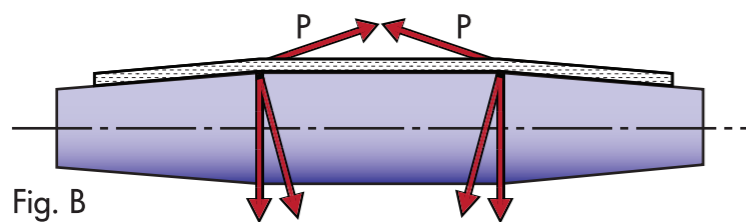


Fig. B

The trapezoidal drive drum provides sufficient tracking power P to guide a conveyor belt (Fig. B). It is also important to ensure all drums are in line and parallel with each other.

Cleats (Flights)

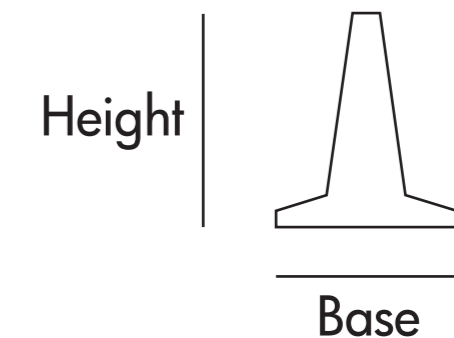


Inclined conveyors may sometimes require a conveyor belt with cleats on the carrying surface. This application is often used in circumstances to prevent slippage of the conveyed material (or goods) and increases the belt's overall capacity.

There are many variations of cleating. The application for a particular job is based upon both the characteristics of the conveyed products and the incline of the conveyor.

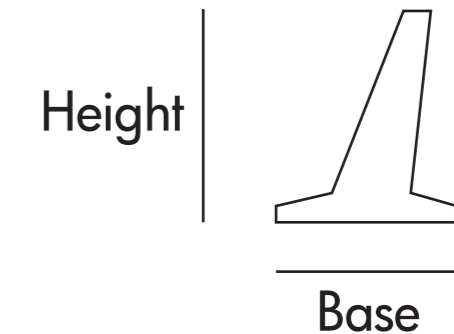
T-Cleats

| Cleat | Height | Base |
|------------|--------|------|
| T-Cleat-20 | 20 | 20 |
| T-Cleat-25 | 25 | 30 |
| T-Cleat-40 | 40 | 30 |
| T-Cleat-50 | 50 | 30 |
| T-Cleat-75 | 75 | 30 |



Angled T-Cleats

| Cleat | Height | Base |
|------------|--------|------|
| T-Cleat-38 | 38 | 31.5 |
| T-Cleat-50 | 50 | 33.5 |
| T-Cleat-75 | 75 | 45 |



Tracking Rib

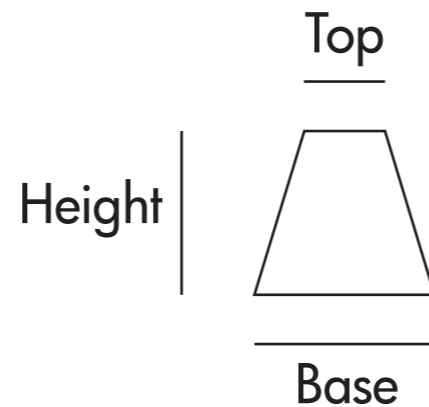


Tracking Ribs are welded onto Conveyor Belts in various applications to aid in the tracking of the belt.

V Guides For Tracking (PVC)

| Profile | Base | Height | Top |
|--------------|------|--------|-----|
| K6 | 6 | 4 | 3.5 |
| K8 | 8 | 6 | 4.5 |
| K10(M-SECT)* | 10 | 6 | 6 |
| K13(A-SECT)* | 13 | 8 | 7.5 |
| K17(B-SECT)* | 17 | 11 | 9.5 |
| K22(CSECT) | 22 | 15 | 12 |

*Also available in notched.

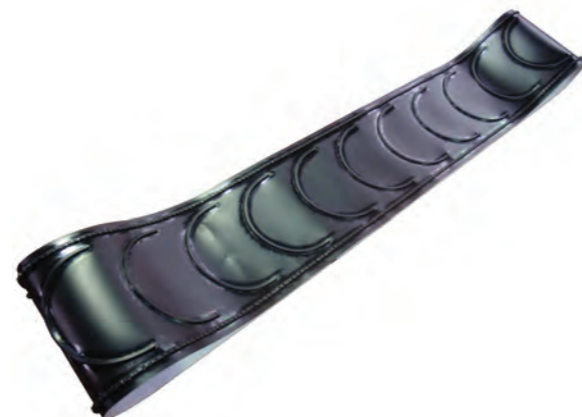
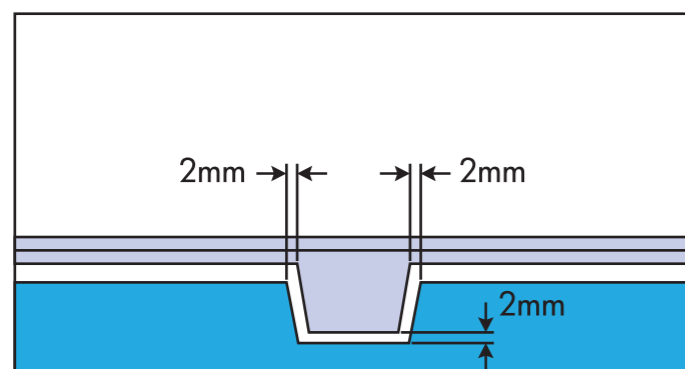


V Guides For Tracking (PU)

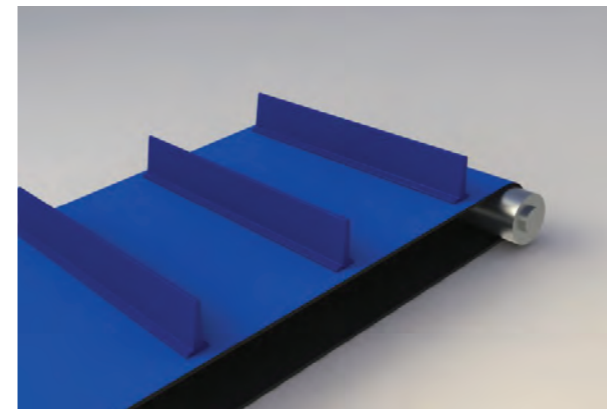
| Profile | Base | Height | Top |
|---------|------|--------|-----|
| K5 | 5 | 3 | 2.5 |
| K6 | 6 | 4 | 3.5 |
| K8 | 8 | 6 | 4.5 |
| K10* | 10 | 6 | 6 |
| K13* | 13 | 8 | 7.5 |
| K17* | 17 | 11 | 9.5 |

*Also available in notched.

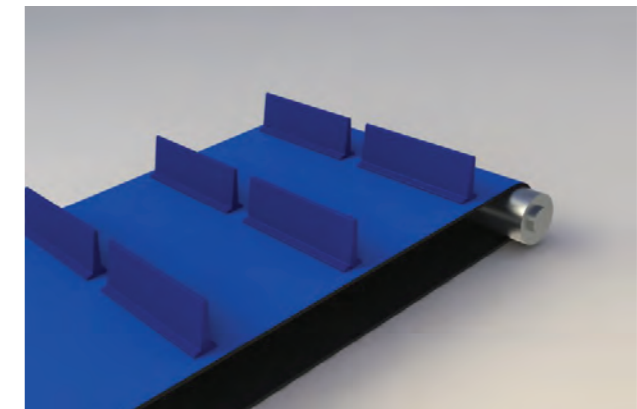
To obtain good results with a tracking guide, the grooves in the pulleys, rollers and slider beds must be larger than the tracking guide that is welded to the belt.



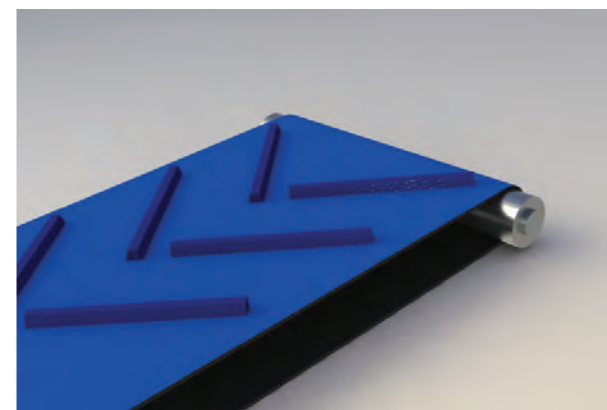
Cleats (Flights) and Tracking Rib Arrangements



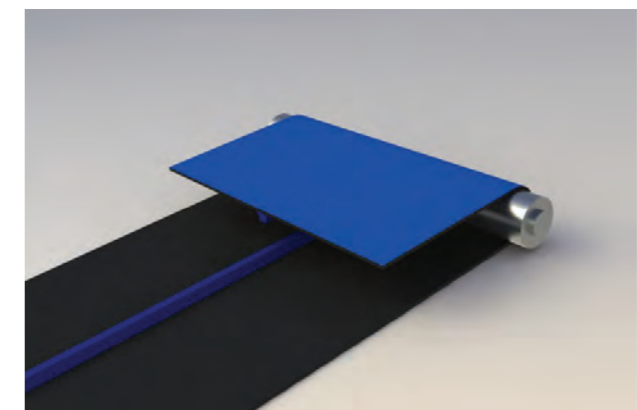
Single Transverse Cleat



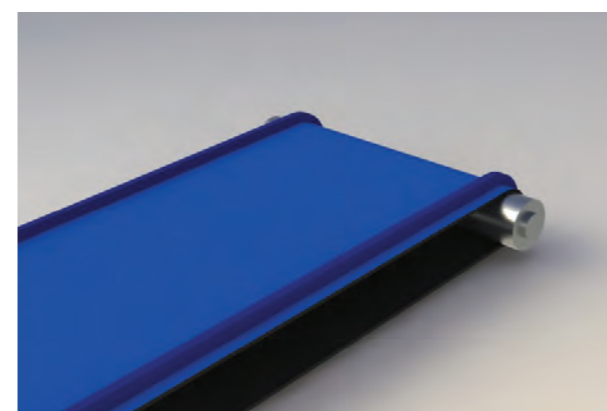
Double Transverse Cleat



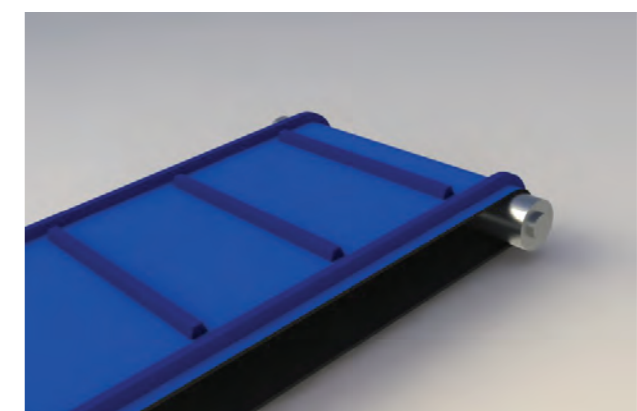
Herringbone "V" Pattern



Inner Tracking Guide



Retaining Sidewalls



Single Transverse Cleat with Retaining Sidewalls