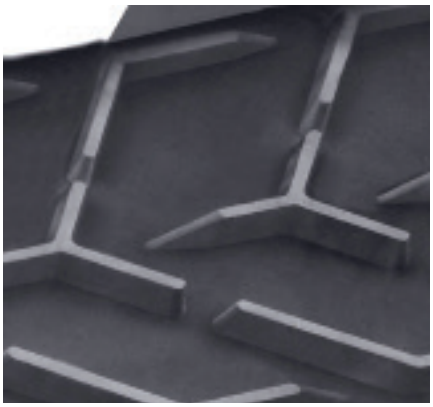
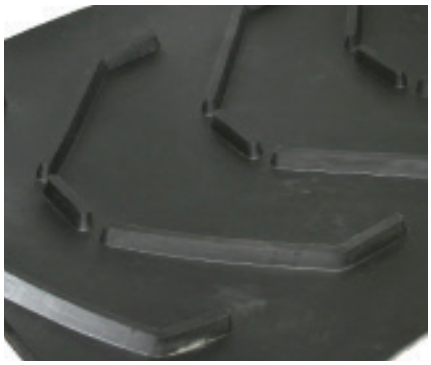
Wenco Fabric Belts

Wenco has always focused on meeting the needs of the bulk material handling industry by supplying various high quality types of conveyor belts to the industry.



The carcass consists of wholly synthetic fabrics covering both Polyamide-Polyamide (NN) and Polyester-Polyamide (PN) and Aramid construction. Cotton constructions are also available.

Special fabric weaves are also offered for applications requiring high anti-tear and high flex properties. Specially designed carcass belts are offered by Wenco for special application considerations. For applications where tear is a concern, Textile or Steel Rip-Check Breakers are available. The inter ply rubber layers are of a special resilient rubber offering maximum resistance to impact and to cope with all mechanical and thermal requirements.



Belt Width

The belts are available in standard widths in full ply width up to 3000mm.

Belt Edges

Belt edges can be given in both cut and sealed (moulded) edges.

T +61 8 9267 5509
E salesrlc@wenco.com.au

1 Ladner Street
O'Connor 6163, Western Australia

Belt Standards

Wenco conveyor belting complies with all known international standards. It can work in areas of bulk material handling from the lightest to the most difficult of the working conditions, be it in the Stone Quarrying or Earth moving industry, in the Steel, Cement or Mining Industry.

Cover Qualities

The top and the bottom covers provide protection to the carcass. Cover quality is always selected according to the material to be conveyed and the service Conditions. Wenco offers a wide range of cover qualities conforming to International standards to suit various application areas.

General Purpose	X –DIN22102 Y –DIN22102 W –DIN22102 Z –DIN22012	M–24 IS 1891–1 N-17 IS 1891-1 M/N AS 1332 M/N SABS/1173	H–ISO 10247 D – ISO 10247 L –ISO 10247	RMA GR I & II
Heat Resistance	T1 100 – 120 Deg c	IS 1891 - II	ISO–4195 – 1 & 2	
	T1 125 – 150 Deg c	IS 1891 - II	ISO–4195 – 1 & 2	
	T1 150 – 200 Deg c	Wenco Standard	ISO–4195 – 1 & 2	
Oil & Grease Resistance	G - DIN	ISO 1891 - III		
FDA Compliant Food Grade Antistatic White Nitrile	IS 1891 - IV			
Fire and Flame Resistance	CSA–M422–M87	IS 1891 - V	ISO 340 AS ISO 284	AS 4606

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Solid Woven Conveyor Belts

Wenco conveyor belts are also offered with Monopoly or duoply Straight Warp (EPP) fabrics for applications where the pulley diameters are low as are the center distances. These belts are available in ratings of up to 2000 KN/m, these belts are designed to provide excellent strength and low stretch with superior load support and troughability. The special fabric construction made up of high tenacity straight yarns reduces stretch. Exceptionally high longitudinal Rip Resistance – almost 4~5 times that of plied belts of similar strength.

Very High Incline and Vertical Carrying Belts

Wenco also offers Belts with Sidewalls and Cleats also called as Sidewall Belts. In sidewall heights of upto 320mm and in widths up to 1600mm. These are made with specialized Cross Rigid Reinforcement to ensure flexing in longitudinal direction while traveling and rigidity along the width for optimal performance. These are again available in General Purpose, Oil Resistant, Heat Resistant and Fire Resistant Grades, conforming to the Standards mentioned under the Cover Grades.

Heat Resistant Belts, Sidewalls and Cleats are hot vulcanized to the mother Belt, ensuring optimal performance even at high temperatures.

Special Low Rolling Resistant Belts

Increasingly, energy costs are going up and are expected to go up even further in the future.

Wenco offers Low Rolling Resistance (LRR) compound for all general purpose applications and FR applications, which has reduced rolling resistance and hence the energy consumption of the belt while traveling gets reduced considerably. Details of this are available on request.

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Gravimetric Feeder and Endless Belts

Wenco offers seamless endless belts for applications, wherein, load cells are provided and no variations in gauges are permitted across the length or width of the belt. These are given with guides (on the bottom) and moulded profiles on the edges of carrying side for Coal Weigh Feeder applications in thermal Power Stations.

For packaging of Cement and Fertilizer bags as also their loading and unloading applications, seamless endless belts are offered, which may be plain or patterned to meet the customer's specifications.

For Construction Machines (Mobile Crushers, Screens and Batching Plants) Factory / Hot Spliced belts in endless lengths from 3 metres to 50 metres are available.

Chevron Conveyor Belts for High Inclined Carrying

With smooth surface conveyor belts the maximum conveying angle of inclination is approximately 20° depending on the material. If steeper angle of inclinations are required the same is made possible by using Chevron Cleated Belts. Chevron Conveyor Belt have rubber profiles that are integrally vulcanized with the top cover of the belt. These profiles are made with highly abrasion resistant rubber and are offered in Softer compounds (45 50 Shore) as also 60 shore materials. The profiles are shaped in such a manner that there is no need for special idlers and these can be run on conventional conveyors. The pitch of the Chevron ensures a smooth ride over flat return Idlers.

Wenco offers a wide range of Profiled Chevron Cleated Belts, which make increased angles of 30° to 40° inclination possible. The advantage of high angle of inclination is that less space is needed to reach the desired conveying height.

Chevron Cleated Belts offered by Wenco comply with international standards.

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Wenco's Standard Range of Fabric Belts in Australia:

Belt Width (mm)	Class	Top Cover (mm)	Bottom Cover (mm)	Grade	Roll Length (meter)	Cut to Size (meter)
600	PN215/2	3	1.5	AS-M	300	Available on Request
900	PN315/2	3	1.5	AS-M	300	Available on Request
1500	PN315/2	3	1.5	AS-M	300	Available on Request
600	PN500/3	3	1.5	AS-M	300	Available on Request
750	PN500/3	3	1.5	AS-M	300	Available on Request
900	PN500/3	3	1.5	AS-M	300	Available on Request
1050	PN500/3	3	1.5	AS-M	300	Available on Request
1200	PN500/3	3	1.5	AS-M	300	Available on Request
1800	PN500/3	3	1.5	AS-M	300	Available on Request
600	PN500/3	5	1.5	AS-M	300	Available on Request
750	PN500/3	5	1.5	AS-M	300	Available on Request
900	PN500/3	5	1.5	AS-M	300	Available on Request
1050	PN500/3	5	1.5	AS-M	300	Available on Request
1200	PN500/3	5	1.5	AS-M	300	Available on Request
1800	PN500/3	5	1.5	AS-M	300	Available on Request
600	PN630/4	6	2	AS-M	300	Available on Request
750	PN630/4	6	2	AS-M	300	Available on Request
900	PN630/4	6	2	AS-M	300	Available on Request
1050	PN630/4	6	2	AS-M	300	Available on Request
1200	PN630/4	6	2	AS-M	300	Available on Request
1500	PN630/4	6	2	AS-M	300	Available on Request
1800	PN630/4	6	2	AS-M	300	Available on Request

The above values are approximate value only and should be used as a guideline only.
Wenco reserves the right to make specification changes without notice or without incurring liability.

T +61 8 9267 5509
E salesrlc@wenco.com.au

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O'Connor 6163, Western Australia

Belt Selection Chart Polyester/Nylon (PN) Belts

Belt Type	Maximum Recommended Working Tension Kn/m	Nominal Carcass Thickness (mm)	Carcass Weight kg/m²	Pulley Diameters (mm) *			Min Belt Width (mm)	Maximum Belt Width for Satisfactory Load Support (mm) *			
				A	B	C		<0.75	0.75-1.5	1.5-2.5	2.5-3.2
PN250/2	25	2.4	2.98	315	250	200	300	800	600	-	-
PN315/2	31.5	2.7	3.35	315	250	200	400	800	800	-	
PN315/3	31.5	3	3.72	400	315	250	400	1000	800	650	-
PN400/2	40	3.1	3.5	400	315	250	400	800	800	650	-
PN400/3	40	3.2	3.97	400	315	250	400	1200	1000	800	-
PN400/4	40	4.2	5.21	500	400	315	650	1400	1200	1000	-
PN500/3	50	3.6	4.46	500	400	315	500	1200	1000	800	-
PN500/4	50	4.4	5.46	500	400	315	650	1600	1400	1200	1000
PN500/5	50	5.3	6.57	630	500	400	650	1600	1400	1200	1000
PN630/3	63	4	4.96	500	400	315	500	1400	1200	1000	800
PN630/4	63	4.9	6.08	630	500	400	650	1600	1400	1200	1000
PN630/5	63	5.6	6.94	630	500	400	800	2000	1800	1600	1400
PN800/3	80	4.5	5.58	500	400	315	650	1600	1400	1200	1000
PN800/4	80	5.5	6.82	630	500	400	650	1800	1600	1400	1200
PN800/5	80	6.2	7.69	800	630	500	800	2000	1800	1600	1400
PN1000/4	100	6.2	7.69	800	630	500	800	2000	2000	1800	1600
PN1000/5	100	7	8.68	800	630	500	1000	2000	2000	2000	1800
PN1000/6	100	7.6	9.42	1000	800	630	1000	2000	2000	2000	2000
PN1250/4	125	7.2	8.93	800	630	500	1000	2000	2000	2000	2000
PN1250/5	125	7.9	9.8	1000	800	630	1000	2000	2000	2000	2000
PN1250/6	125	8.5	10.54	1000	800	630	1000	2000	2000	2000	2000
PN1400/4	140	8.6	10.66	1000	800	630	1000	2000	2000	2000	2000
PN1600/5	160	9.1	11.28	1000	800	630	1200	2000	2000	2000	2000
PN1600/6	160	9.6	11.9	1250	1000	800	1200	2000	2000	2000	2000
PN1800/5	180	10.9	13.52	1250	1000	800	1200	2000	2000	2000	2000
PN1800/6	180	12.1	15	1400	1250	800	1200	2000	2000	2000	2000
PN2000/5	200	11	13.64	1250	1000	800	1200	2000	2000	2000	2000
PN2000/6	200	12.1	15	1400	1250	800	1200	2000	2000	2000	2000

- To determine total belt thickness, add the sum of the cover thickness to the carcass thickness.
- Pulley diameters apply to belts operating at 60% to 100% of their recommended max. belt tension
- For lower tensions, smaller diameter pulleys may be used.
- **The load support of a belt is determined by belt width, tensile strength and bulk material density. The figures given in the table relate to 3 roll 30 degree carrying idlers.
- When extremely thick covers are selected, the advice of our Technical Department should be sought.

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T +61 8 9267 5509
E salesrlc@wenco.com.au

1 Ladner Street
O'Connor 6163, Western Australia

Belt Selection Chart Nylon/Nylon (NN) Belts

Belt Type	Maximum Recommended Working Tension Kn/m	Nominal Carcass Thickness (mm)	Carcass Weight kg/m²	Pulley Diameters (mm) *			Min Belt Width (mm)	Maximum Belt Width for Satisfactory Load Support (mm) *			
				A	B	C		<0.75	0.75-1.5	1.5-2.5	2.5-3.2
NN250/2	25	2.5	2.6	315	250	200	300	800	600	-	-
NN315/2	31.5	2.7	2.9	315	250	200	400	800	800	-	
NN315/3	31.5	2.7	3.2	400	315	250	400	1000	800	650	-
NN400/2	40	3.2	3.5	400	315	250	400	1200	1000	800	-
NN400/3	40	3.8	4.5	500	400	315	650	1400	1200	1000	-
NN500/3	50	3.5	4	500	400	315	500	1200	1000	800	-
NN500/4	50	4.4	4.8	500	400	315	650	1600	1400	1200	1000
NN500/5	50	4.9	5.6	630	500	400	650	1600	1400	1200	1000
NN630/3	63	3.8	4.5	500	400	315	500	1400	1200	1000	800
NN630/4	63	4.8	5.4	630	500	400	650	1600	1400	1200	1000
NN630/5	63	5.7	6.1	630	500	400	800	2000	1800	1600	1400
NN800/3	80	4.4	5.1	500	400	315	650	1600	1400	1200	1000
NN800/4	80	5.3	6.1	630	500	400	650	1800	1600	1400	1200
NN800/5	80	6.2	6.8	800	630	500	800	2000	1800	1600	1400
NN1000/4	100	6.1	7	800	630	500	800	2000	2000	1800	1600
NN1000/5	100	6.8	7.8	800	630	500	1000	2000	2000	2000	1800
NN1000/6	100	7.5	8.3	1000	800	630	1000	2000	2000	2000	2000
NN1250/4	125	7.1	8.2	800	630	500	1000	2000	2000	2000	2000
NN1250/5	125	7.8	8.9	1000	800	630	1000	2000	2000	2000	2000
NN1250/6	125	8.3	9.4	1000	800	630	1000	2000	2000	2000	2000
NN1400/4	140	7.5	9.8	1000	800	630	1000	2000	2000	2000	2000
NN1600/5	160	9	10.4	1000	800	630	1200	2000	2000	2000	2000
NN1600/6	160	9.5	10.8	1250	1000	800	1200	2000	2000	2000	2000
NN1800/5	180	10.9	11.65	1250	1000	800	1200	2000	2000	2000	2000
NN1800/6	180	11.1	12.24	1400	1250	800	1200	2000	2000	2000	2000

- To determine total belt thickness, add the sum of the cover thickness to the carcass thickness.
- Pulley diameters apply to belts operating at 60% to 100% of their recommended max. belt tension
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