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Product Information Sheet

Razer-Lag™ Natural Grade Pulley Lagging

Function

To provide positive drive through friction between the Lagging surface and the bottom cover of the belt.

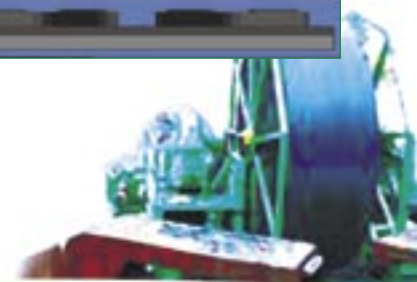
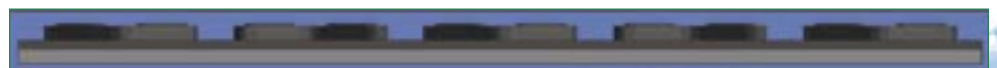
- > To provide positive displacement of water and contaminants so as to maintain high friction values under all conditions.
- > To prevent wear to the metal pulley shell thus increasing pulley life expectancy.
- > To enable easy replacement without removing the pulley from the conveyor.

Advantages

- > Provided in 250mm wide strips with an 82mm-repeating pattern for cost-effective installation and pattern matching.
- > The unique block pattern ensures quieter operation and no section "Pull-out" under high torque conditions.
- > A special bonding layer of Neoprene rubber moulded to the back of the Razer-Lag enables higher lagging to pulley bond strength. This also means that abrasion resistance is not compromised to achieve high bond strength.
- > Superior water shedding performance from the Arrowhead Pattern.
- > Precision moulded and press cured ensures consistent dimensional and physical properties. Thickness is typically better than $\pm 0.25\text{mm}$.
- > Supplied pre buffed on edges and bonding face for ease of installation and T.I.R. accuracy.

Applications

- > On all pulley shells where shell life, water dispersion and/or material build up is a concern.
- > For substantially higher drive friction factors and increased service life in contaminated conditions please refer to our Ceramic Pulley Lagging Information.



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Product Information Sheet

Razer-Lag™ FRAS Grade Pulley Lagging

Function

To transfer the maximum drive energy from the conveyor drive to the conveyor belt without slippage.

- > To shed water on drive and non-drive pulleys.
- > To prevent wear on steel pulley shells.
- > To reduce the incidences of material build up on pulley shells which cause belt damage and poor belt tracking.
- > To prevent aquaplaning of belts.



Advantages

- > Razer Industries is 100% Australian owned and operated.
- > Meets all the demands of FRAS grade rubber for below ground and confined mining operations.
- > Provided in 250mm wide strips with an 82mm-repeating pattern for cost-effective installation and pattern matching. This pattern is much quieter in service and suffers less section "Pull-Out" under high torque loading.
- > Superior water shedding performance from the Arrowhead Pattern over conventional diamond and herringbone patterns. Water is shed at the belt/pulley interface.
- > Precision moulded and press cured ensures consistent dimensional and physical properties. Thickness is typically better than $\pm 0.25\text{mm}$ ensuring high tolerances are maintained against T.I.R requirements.
- > Is supplied pre buffed on the bonding face and edges.

Applications

- > On all pulley shells where shell life, water dispersion and/or material build up is a concern.
- > For substantially higher drive friction factors and increased service life in contaminated conditions please refer to our Ceramic Pulley Lagging Information.



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Product Information Sheet

Razer-Lag™ PolyLag *On Site - In Situ Polyurethane Pulley Lagging*

Function

To provide increased wear life, improved shedding of build up and quieter operation over and above rubber lagging on non drive pulleys.

- > For in-situ installation using conventional lagging methods and materials.
- > Providing superior lagging life; generally 6 to 8 times that of rubber.
- > To prevent wear to the metal pulley shell thus increasing pulley life expectancy.

Advantages

- > The Polyurethane wear layer provides abrasion resistance of DIN 35. Typically, rubber is DIN 100.
- > Provided in 250mm wide strips with an 82mm-repeating pattern for cost-effective installation and pattern matching. Razer-Lag PolyLag is supplied in pre-cut strip lengths to suit the pulley face.
- > A special bonding layer of Neoprene rubber moulded to the back of the lagging enables exceptional bond strength with the pulley.
- > Superior water shedding and quieter performance from the Arrowhead Pattern.
- > Precision moulded and press cured ensures consistent dimensional and physical properties. Thickness is typically better than $\pm 0.25\text{mm}$.
- > Supplied pre buffed on edges and bonding face for ease of installation and T.I.R. accuracy.

Application

- > On all non-drive pulleys where shell life, water dispersion and/or material build up is a concern.
- > For substantially higher drive friction factors and increased service life in contaminated conditions please refer to our Ceramic Pulley Lagging Information.



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Product Information Sheet

PolyLag Vs Rubber Lagging Cost Comparison

Typical Lagging Cost Comparison		
Pulley Face	1550mm	
Pulley Diameter	800mm	
	Cost to Lag	
	Rubber	PolyLag
Lagging	\$526.00	\$2660.00
Metal Primer	\$46.00	\$46.00
Adhesive	\$80.00	\$80.00
Total	\$652.00	\$2786.00
Labour & Consumables (Est)	\$2000.00	\$2000.00

Accumulated Lagging Costs		
1st Time Lagged	\$2652.00	\$4786.00
2nd Time Lagged	\$5304.00	No further lagging required. PolyLag outlasts rubber minimum 6 to 1 times.
3rd Time Lagged	\$7956.00	
4th Time Lagged	\$10608.00	
5th Time Lagged	\$13260.00	
6th Time Lagged	\$15912.00	
Total Costs =	\$15912.00	\$4786.00

Other Considerations

Razer's 'PolyLag' is manufactured from Razerthane with a cured Neoprene Rubber backing. Bond strengths achieved are in excess of Hot Vulcanized lagging typically reaching 22 N/mm. Interlamellar bond strengths are typically 18 N/mm.

- > Razerthane is available in 2 hardnesses. Each guaranteed by Razer to outwear Rubber by a minimum of 6 to 1.
- > No consideration is given in the above costs to:
 - Downtime costs of the conveyor which will inevitably exceed the initial lagging cost.
 - Additional O, H&S costs associated with the potential for injury on frequently relagging pulleys.
- > Razerthane will not work harden and is not subject to Ozone cracking.
- > Razerthane assists in shedding of any build-up that may otherwise occur on pulley shells.
- > The Unique Arrowhead pattern disperses water and mud effectively while operating more quietly than conventional Diamond Lagging Patterns.

Product Limitations

- > Razer 'PolyLag' is not recommended for Drive Pulleys.



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Razer Pulley Lagging

Rubber (FRAS & Natural)

Ceramic (FRAS & Natural)

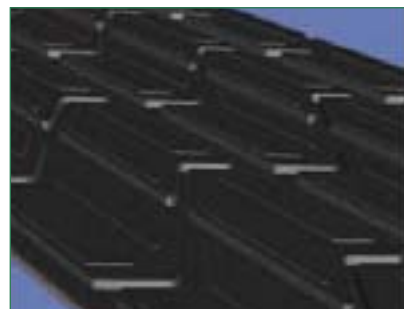
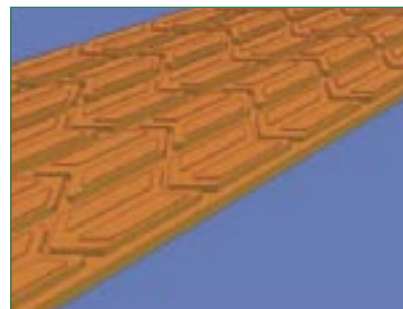
Polyurethane (FRAS & Natural)

E.A.B Ceramic (FRAS & Natural)

	Part No.	Thick	Pattern
Natural Grade CN Backed Lagging Roll Width = 255mm wide	LL-10-Nat-A	10mm	Arrow
	LL-10-Nat-AM	10mm	Arrow
	LL-12-Nat-A	12mm	Arrow
	LL-12-Nat-AM	12mm	Arrow
	LL-12-Nat-P	12mm	Plain
	LL-12-Nat-PM	12mm	Plain
	LL-16-Nat-A	16mm	Arrow
	LL-16-Nat-AM	6mm	Arrow
	LL-20-Nat-A	20mm	Arrow
	LL-20-Nat-AM	20mm	Arrow
FRAS Grade (Fire Resistant Anti Static) CN Backed Lagging Roll Width = 255mm wide	LL-10-FRAS-A	10mm	Arrow
	LL-10-FRAS-AM	10mm	Arrow
	LL-12-FRAS-A	12mm	Arrow
	LL-12-FRAS-AM	12mm	Arrow
	LL-12-FRAS-P	12mm	Plain
	LL-12-FRAS-PM	12mm	Plain
	LL-16-FRAS-A	16mm	Arrow
	LL-16-FRAS-AM	16mm	Arrow
	LL-20-FRAS-A	20mm	Arrow
	LL-20-FRAS-AM	20mm	Arrow
'PolyLag' Neoprene Rubber Backed 255mm Wide Polyurethane Strip Lagging in 80 or 60 Sure A Hardness	Part No.	Strip Length	
	LL-2000-80P	2000mm	
	LL-3000-80P	3000mm	
	LL-3600-80P	3600mm	
	LL-2000-60P	2000mm	
	LL-3000-60P	3000mm	
	LL-3600-60P	3600mm	

Please note:

- > "PolyLag®" in cut to length size is available subject to a normal forward load of 10 working days. However, "PolyLag®" is stocked in strips per above sizes.
- > Prices for unlisted "PolyLag®" Strip lengths, grades and thickness are available upon request.





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Product Information Sheet

Razer-Lag™ Ceramic Pulley Lagging

Function

To provide positive drive between pulley shell and conveyor belt under conditions beyond the capacity of normal rubber lagging.

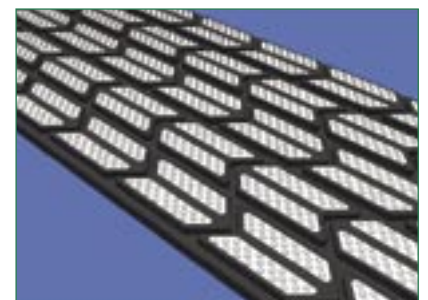
- > To provide high levels of resistance to abrasion.
- > To positively displace water and fugitive material that would otherwise cause belt slip.
- > To protect the pulley shells from wear leading to early failure.
- > To enable ease of installation without the need to remove the pulley from the conveyor.

Advantages

- > 250mm wide strips with 82mm-repeating pattern for cost-effective installation and pattern matching.
- > Is available with both FRAS and Natural rubber grades in thicknesses of 10mm, 12mm, 16mm and 20mm.
- > Each ceramic tile is encased by rubber on five sides ensuring superior bond.
- > Significantly improved drive values enable the reductions in take up tensions thus increasing belt and splice life. Lobby-Lag ceramic provides a "Geared Drive" effect to difficult conveyors.
- > Superior water shedding from the Arrowhead Pattern.
- > Supplied pre buffed on both edges and bonding face for ease of installation and accurate T.I.R.
- > Bonding layer of Neoprene rubber ensures superior bond Between pulley shell and lagging. This also means that abrasion resistance is not compromised to achieve high bond.

Applications

- > For high wear, high tension, contaminated and/or wet operating environments.
- > For increased conveyor drive efficiency to prevent slip.



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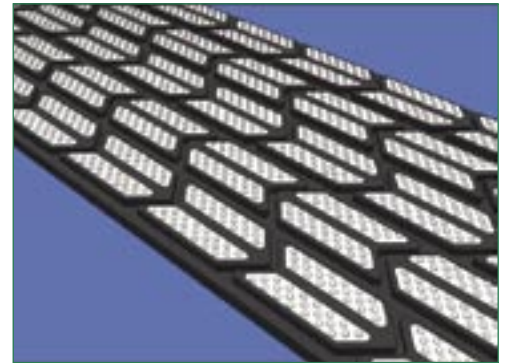
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Razer Arrowhead Ceramic Lagging

	Belt Width	Ceramic x Rubber		FRAS Grade Rubber	Natural Grade Rubber
				Part No.	Part No.
Arrowhead Nipple Ceramic Stocked strip lengths Strip width = 255mm	600	620	1200	LLC-600-F	LLC-600-F
	750	780	1350	LLC-750-F	LLC-750
	900	940	1500	LLC-900-F	LLC-900
	1050	1100	1650	LLC-1050-F	LLC-1050
	1200	1200	1800	LLC-1200-F	LLC-1200
	1400	1440	2000	LLC-1400-F	LLC-1400
	1600	1600	2200	LLC-1600-F	LLC-1600
	1800	1850	2400	LLC-1800-F	LLC-1800
	2000	2085	2600	LLC-2000-F	LLC-2000



Please note:

- > All Prices Exclude GST
- > Purpose built strip lengths of both Natural and FRAS Rubber Lagging are available upon request.
- > Percentages of Ceramic to Rubber can be varied to suit drive requirements and cost constraints.
- > All Natural Ceramic is Neoprene backed for better adhesion.

	Belt Width	Ceramic x Rubber		FRAS Grade Rubber	Natural Grade Rubber
				Part No.	Part No.
Arrowhead Nipple Ceramic Non stocked strip lengths Strip width = 255mm	450	450	1050	LLC-450-F	LLC-450
	500	530	1100	LLC-500-F	LLC-500
	800	860	1400	LLC-800-F	LLC-800
	1350	1350	1950	LLC-1350-F	LLC-1350
	1500	1520	2100	LLC-1500-F	LLC-1500
	1700	1750	2300	LLC-1700-F	LLC-1700
	1900	1920	2500	LLC-1900-F	LLC-1900
	2100	2160	2700	LLC-2100-F	LLC-2100
	2200	2250	2800	LLC-2200-F	LLC-2200
	2300	2320	2900	LLC-2300-F	LLC-2300
	2400	2410	3000	LLC-2400-F	LLC-2400
	2500	2570	3100	LLC-2500-F	LLC-2500
	2600	2650	3200	LLC-2600-F	LLC-2600
	2800	2820	3400	LLC-2800-F	LLC-2800
3000	3060	3600	LLC-3000-F	LLC-3000	





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Razer E.A.B Ceramic Lagging

	Belt Width	Ceramic x Rubber		FRAS Grade Rubber	Natural Grade Rubber
				Part No.	Part No.
E.A.B Plain and Dimple Ceramic Stocked strip lengths Strip width = 255mm	600	620	1000	LLC-600-EAB-F	LLC-600-EAB
	750	780	1150	LLC-750-EAB-F	LLC-750-EAB
	900	940	1300	LLC-900-EAB-F	LLC-900-EAB
	1050	1100	1450	LLC-1050-EAB-F	LLC-1050-EAB
	1200	1200	1600	LLC-1200-EAB-F	LLC-1200-EAB
	1400	1440	1900	LLC-1400-EAB-F	LLC-1400-EAB
	1600	1600	2100	LLC-1600-EAB-F	LLC-1600-EAB
	1800	1850	2300	LLC-1800-EAB-F	LLC-1800-EAB
	2000	2085	2500	LLC-2000-EAB-F	LLC-2000-EAB

	Belt Width	Ceramic x Rubber		FRAS Grade Rubber	Natural Grade Rubber
				Part No.	Part No.
E.A.B Plain and Dimple Ceramic Non stocked strip lengths Strip width = 255mm	450	460	860	LLC-450-EAB-F	LLC-450-EAB
	500	500	900	LLC-500-EAB-F	LLC-500-EAB
	800	800	1200	LLC-800-EAB-F	LLC-800-EAB
	1350	1360	1800	LLC-1350-EAB-F	LLC-1350-EAB
	1500	1520	2000	LLC-1500-EAB-F	LLC-1500-EAB
	1700	1700	2200	LLC-1700-EAB-F	LLC-1700-EAB
	1900	1900	2400	LLC-1900-EAB-F	LLC-1900-EAB
	2100	2100	2600	LLC-2100-EAB-F	LLC-2100-EAB
	2200	2200	2700	LLC-2200-EAB-F	LLC-2200-EAB
	2300	2300	2800	LLC-2300-EAB-F	LLC-2300-EAB
	2400	2400	2900	LLC-2400-EAB-F	LLC-2400-EAB
	2500	2500	3000	LLC-2500-EAB-F	LLC-2500-EAB
	2600	2600	3000	LLC-2600-EAB-F	LLC-2600-EAB
	2800	2800	3300	LLC-2800-EAB-F	LLC-2800-EAB
	3000	3000	3300	LLC-3000-EAB-F	LLC-3000-EAB

Please note:

- > Plain and Dimple Ceramic are the same price. Please mark any orders clearly where plain is required.
- > EAB Style is only available in 12mm thickness.

Razer Lagging Strip Selection Chart

Min Dia	Max Dia	No Strips	Min Dia	Max Dia	No Strips
151	162	2	812	892	11
163	243	3	893	974	12
244	324	4	975	1055	13
325	405	5	1056	1136	14
406	487	6	1137	1217	15
488	568	7	1218	1298	16
569	649	8	1299	1380	17
650	730	9	1381	1461	18
731	811	10	1462	1542	19

Razer Lagging is manufactured in 255mm wide strips. The table includes data as a guide to the quantities of strips required for a specific pulley diameter.

