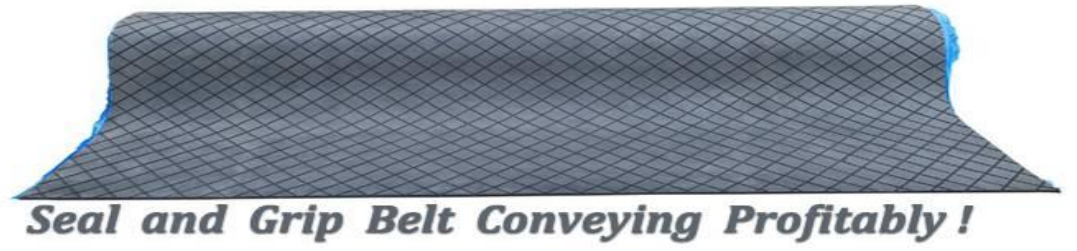




# Skirt Rubber & Rubber Lagging

*Conforming ISO 868, ISO 1629*



***Seal and Grip Belt Conveying Profitably!***

Supersello falda de goma antideslizante y revestimiento de goma

الأسوأ المطاط زلّة ومكافحة مطاط، ال تنورة ختم سوڤر

Jupe label de qualité en caoutchouc et anti-dérapant Poulie Lagging

**HIC**  
**UNIVERSAL**  
True Performance Rubbers





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## Specification of Rubber Skirt and Lagging

*Classified under HS Code 4409 & 4008*



HIC Universal Skirt Rubber ensures **materials spillage protection** from conveyor belt, in a way produced out of quality natural rubber compound superseding **ISO 868**, German DIN 53512 quality standards.

While, HIC Universal Rubber Pulley lagging sheet ensures **straight running friction simulation** in a way, manufactured of synthetic rubber neoprene or SBR rubber Diamond Groove as well as Plain finish superseding **ISO 1629**, DIN 53516, DIN 53479 quality standards.

### About HIC

HIC International Co Inc, formed in **1988** manufacturing industrial **rubber and steel** products **ISO 9001** certified producer of **Safety rubber skirt pulley lagging sheet**, **Conveyor Belt Idler Pulley**, **Power Transmission belt drive coupling**, **Hydraulic hose valve** quality exporters of HIC **Universal brand** to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

**Total Quality Management principles are followed and True Performance is thus assured.**

## Why HIC Universal Rubber Skirt and Pulley Lagging?



### Long Lasting Quality

Skirting to Seal Conveyor Transfer Points

### Sound Protection

in Various Environments from Iron Ore to Wet Clay

### Lowest Coefficient of Friction

Helps Avoiding Belt Damages

### Superb Belt Slippage Control

as Lagging Maintains Friction Grip

### Excellent Material Build Up Prevention

in Conveyor Pulleys Enhances Belting Life

### Good Bonding Layer

in Lagging Permits Reduced Adhesive Use

**Conveyor belt materials spillage protection and straight running friction simulation skirt rubber and pulley lagging sheet manufactured of quality natural rubber compound and rubber-lagging sheet produced of synthetic rubber neoprene or SBR rubber diamond grooved or plain finish made in India by HIC Universal.**

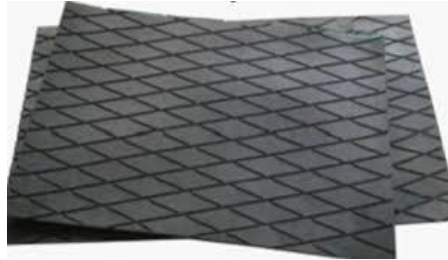
HIC Universal Skirt-rubber and diamond lagging sheet are Original Choice by conveyor component and belt conveyor system manufacturers in India, China, Australia, South Africa, United States, Canada North America, Peru Latin America, Brazil South America, Germany Europe, Russian Federation, Chile, Mexico, England-UK, Saudi Arabia, Indonesia, Yemen and other Asian countries.

## RANGE of Rubber Skirt & Lagging

*Spill-Control & Belt-Grip HIC Rubber*



Skirt Board Rubber



Diamond Groove Rubber lagging



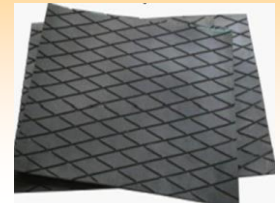
Plain Rubber Lagging Sheet

- ❖ Skirt-Board Rubber 150mm~400mm W x 10 mtrs Long size 8 to 20mm thick
- ❖ Diamond Grooved Rubber Lagging in sizes 1m x 2 m and 1.2 m x 2.4 m from 6.5 mm to 15mm thick
- ❖ Plain Rubber Pulley Lagging in sizes 1m x 2 m and 1.2 m x 2.4 m from 6.5 mm to 15mm thick

## Sizes of Skirt board Rubber Manufactured

### *HIC Conveyor Side Skirting*

Natural skirt rubbers manufactured Skirt Width sizes MM 150, 200, 250, 300, 350, 400, Skirt Length Meters 2, 5, up to 25 m, Skirting Thickness MM 8, 10, 12, 19, 25, Skirt Board Shore Hardness A 52 ± 5.



## Spill-proof Skirt Rubber Advantages

Skirt Rubber made of NR, SBR, EPDM grade generally of black color specially compounded skirting for holding material in chute lining having good weather resistance for conveyors transfer point used by manufacturers of conveying belt systems, mining conveying system, conveyor component producers for the purpose side skirting that acts as sealing arrangement in mining industry to help overcome dust leakage or materials spillage from conveyors loading area points thus to protect environment damages or pollution.





## Sizes of Rubber Pulley lagging Sheet Manufactured

### *HIC Driving Pulley and Belt Grip*

Pulley lagging sheet manufactured **Width and Length** sizes 1 m x 2 m and 1.2 m x 2.4 m, **Thickness** MM 6.5, 8, 10, 12, 15, **Finish** Diamond or Plain, plain up to max 10 meter long, **Wear factor** 80 mm<sup>3</sup> at 10N, **T.S.** 7~15 MPa, **Elongation** Min 300%, **Color** Black, **Rubber grade** Natural or FRAS or White Nitrile Food, **Shore Hardness** A 60 ± 5, 70 ± 5.

## Anti-Slip Rubber Lagging Advantages

**Rubber Pulley Lagging** used by manufacturers of conveyor pulley, mining belt conveyor drum, conveyor component producers in the form of **diamond groove rubber laggings** or **herringbone pulley lagging sheet** that improves better friction or grip between belts and drive conveyor pulley to overcome belt slippage and increases head drum pulley life. While plain lagging sheet is produced for conveyor system tail drum cover and take-up pulley for enhanced belt tracking.



## Order Quantity Minimums

### *Thickness and Single Size Rolls of HIC's Rubber Skirting and Lagging Supplied*

Skirting rubber conveyor Minimum order quantity in single width and thickness size roll METERS 50.

Diamond grooved rubber sheet for laggings, Conveyor pulley lagging Plain Minimum order quantity in single size rolls NUMBERS 10.





# Nomenclature of Skirt Rubber

## Hardness, Size, Thickness of Conveyor Skirt board Sealing: Technical Data



Shore Hardness 'A'	Size (width x length)	Thickness (mm)	Temperature Range	Physical Properties	
				Av. Tensile Strength	Av. Elongation
55 to 65	100 mm to 350 mm W 2m to 10m L	8 to 20	-10°C to +65°C	10 MPa	400%

Finish: Platen type

Made out of Blended SBR/NR rubber slit sheet having good weather and abrasion resistance.

# Heat Resistant grade moulded rubber block skirting to withstand temperature till 120 degree C (coarse materials) & +100°C (fines) as per ASTM D 412 also produced by HIC Universal.

# Nomenclature of Rubber Lagging

## Thickness, Size, Finish of Pulley Lagging Sheet: Technical Data



Thickness (mm)	Size (width x length)	Finish	Rubber Grade (Colour)	Shore Hardness 'A'	Physical Properties	
					Av. Tensile Strength (MPa)	Av. Elongation (%)
6.5, 8, 10, 12, 15, 20	1 mx 2m	Diamond Grooved,	<b>Natural (black),</b>	60 to 75	6, 7, 10, 12, 15	350
		Plain,	<b>FRAS (black Fire Resistant),</b>			
	Herringbone	<b>Nitrile (white Food )</b>				
	Without Bonding Layer - Smooth or with Grinding,					
1.2mx2.4m	1 mx 10m	With Bonding Layer (Adhesive/Tie Gum Layer)				

Made out of RMA and SBR blend / Neoprene MSHA conforming / BUNA N rubber lagging sheet having good abrasion and water resistance as per ASTM D 412 standards.

# Also HIC Universal undertakes to produce longer length upon request.

**Disclaimer:** Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.

Vendor Data: [www.hic-india.com](http://www.hic-india.com) | Customers List: [www.universaldelhi.org](http://www.universaldelhi.org) | Catalogue: [www.rubber-steel-industrial-products.com](http://www.rubber-steel-industrial-products.com)

## Purchase Enquiry Info

*Rubber Skirt and Rubber Lagging Finish Min. Information to Be Sent*

(Email at: [belts@universaldelhi.org](mailto:belts@universaldelhi.org) ; [universal@hic-india.com](mailto:universal@hic-india.com) or Call +91 11 2874 5120)

HIC ships rubber skirting and pulley lagging sheet conforming ISO 868, ISO 1629 tailor-made to buyer's order specifications to different countries including India. Please send following information in English to quote prices:

1. Rubber Skirting or Lagging dimensions **Size**, width and length MM  
Thickness mm
2. Rubber **Thickness**, MM
3. Rubber **Finish**, diamond or herringbone or plain
4. **Shore Hardness**
5. **Quantity** - Meters or Numbers



## Shipment Handling and Delivery Time

Bulk quantity orders are packed in sea-worthy jute or HDPE in Rolls or Bundles shipped via sea in less than container loads (LCL) /FCL or by air. Sea freight (BL) or Air freight (AWB) charges payable at destination.

Small orders are shipped overseas via **DHL** or **FedEx** or **Aramex courier**, for which your Authorization Account number be sent to be booked on "Freight To Collect" basis, together with complete acceptable physical address and phone or mobile number.

**Domestic orders** are dispatched to any destination in **India** by Road Transport, Gati or TCI or ARC or Jaipur Golden on COD basis.

Shipping Time, generally within 3-4 weeks or as stipulated in quote and accepted order.

## Organization Structure

Industrial supply manufacturing company having dedicated team of 63 skilled work forces includes Rubber Technologist, Chemists, Engineers and Skilled Labor's, Management Experts viz., Plant Manager, Quality Control Inspector, Lab In charge and I.T specialists. Majority of operations are automatic.

## Production Capacity of Rubber Sealing Products

	Approximate Qty. per annum
1. Skirt Board Rubber	50,000 Mtrs
2. Rubber Pulley Lagging	45,000 numbers
3. Rubber Sheet, Cork Sheet, Floor Insulation Mat	1,80,000 kgs.

Visakhapatnam Steel Plant (721354), NALCO (3072),  
Subhash Projects (EM-10,18), Heavy Engg. Corp.(6003),  
Bokaro Steel (72621), Salem Steel(000155),  
Gujarat State Road(000118), ACC (944),  
Army Base(512/ABW-LP/76), NTPC(H8267), etc.

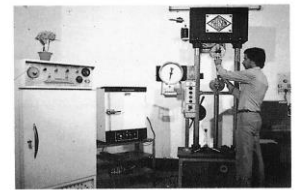
\* Price List & terms on specific enquiry please.

## Quality Assurance Plan

### *HIC Rubber Skirting & Rubber Pulley Lagging Testing Parameters*

Quality rubber skirting and pulley lagging sheet manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre-manufacture checks and post-manufacture tests as to :

- 100% Physical checks with respect to dimensions,
- 100% Chemical checks w.r.t. MOC,
- 20% Random physical tests



Tensile Strength & Elongation  
Testing Machine

## Test Certificate & Warranty

### *HIC Manufacturer's Lab TC of Rubber Skirt and Rubber lagging Supplied*

Quality conveyor skirt and lagging sheet conforming **ISO 868**, DIN 53512, **ISO 1629**, DIN 53516, DIN 53479 - HIC manufacturers modern in-house Lab Test Certificate issued with respect to Dimensions size METER, Thickness MM, besides other tests such as Shore Hardness, Tensile Strength, Elongation.

Warranty of one year against any manufacturing defects in HIC manufactured skirting and pulley lagging sheet product.

**Third Party Inspections** by DNV, RITES, EIL, QSS, SGS, also arranged in HIC's rubber factory or by Government Approved Laboratory, Test Certificate issue fee charges directly reimbursed by buyers.

**Legalization** by Embassy or Chambers of Commerce **Attestation** of export shipping Invoice and other documents also provided towards export of Indian Origin rubber products if demanded on actual fee remitted by importers directly to HIC and or cost added up in Invoice.

## Manufacturing & Testing Equipments



**Belt Press**

Exporters-Importers of industrial products having latest manufacturing machinery and advanced testing equipments.

## Rubber Products Production Machinery



**Belting Calander**

Banbury Rubber Mixer, Dispersion Kneader(s), Mixing Mill(s) 2 Roll, Calander Machine (3Roll), Jointing Machine, Rubber Bale Cutter, Hydraulic Presses (2 daylight), Hydraulic Press (single daylight), Hydraulic Finishing Press, Belt Endlessing M.C.(Vulcaniser), Sundry Machines viz. Lathes, Shaper, Generator sets, Hydraulic Jacks, etc.

## Rubber Products Quality Testing Apparatus as per ISO :



**Manufacturing Hydraulic Press**

B.O.D. Incubator (seasoning chamber), Hot Air Ageing Oven, Physical Balance, Tensile Testing Machines, Abrasion Tester(as per DIN), Drum Friction Tester (as per Canadian stds), Scott Flex Tester (as per railways), Dumbbell Dies, Yarn Testing Machine, etc. **Calibrated** periodically. Indigenous technology with latest technical Indian knows how, however, no collaboration made so far.

## Quality Control

It is in between process checks that are strongly checked & lodged in register to ensure finished rubber product meeting quality standards.

Test Certificate (TC) of our Lab, wherever, applicable, is **forwarded** along with the supply.





# Performance Certificates



Export Excellence Award  
during Feb 1997

**SHARAT HEAVY ELECTRICALS LTD., JHANSI**  
(A Government of India Undertaking)  
P.O. BHSL, JHANSI - 228129  
PH. 0517- 2412549, 2412574. FAX 0517070 Email: shylverna@shel\_his.co.in

**MATERIAL MANAGEMENT**  
Supplier Development Cell

To :  
M/s H.I.C. INTERNATIONAL CO. INC. H90710  
H.O. ANIL HOUSE, D-136  
SHANKAR ROAD  
NEW DELHI-110060  
NEW DELHI 110060

Ref : SDC/SH/24  
Date : 16-JUN-08  
Subject : Supplier Performance Rating

Dear Sir,

Supplier Performance is evaluated by considering weights for quality as 60%, for delivery as 30% and for service as 10%. Based on rating thus obtained, categories are made as (Preferred Supplier) for score between 95 and 100, A for 90 and 97, B between 75 and 89, C between 60 and 74 and D below 60.

Your VENDOR PERFORMANCE RATING is as under :

Rating Factors	QR	DR	SR	Total = QR + DR + SR
Points Obtained	60	30	10	100

Rating : A1

You are requested to please consider above as a feedback on your performance. The period for calculation of SPR is previous year or period for last 2 executed PO's whichever is more.

Note : In case supplier needs any assistance from BHSL for improvement, concerned Buying Group (Mr Rajit) may be contacted.

With best Regards,

Y K VERMA  
SR PURCHASE OFFICER ( SDC )

This is a computer generated output, signature is not required.

HEAD OFF : BIRI FORT, BHSL HOUSE, NEW DELHI - 110047

**SAKTHI SUGARS LIMITED**  
Bharat, Dhankar - 751 813  
Phone: (0674) 27142, 24742, 24813, 442 25773  
Fax: 067425877  
E-Mail: ssc@scs.co.in, ssc@msm.com

**LETTER OF APPRECIATION**

To :  
M/s H. I. C. INTERNATIONAL CO INC  
H.O. D-136, Shankar Road  
NEW DELHI - 110 060

Dear Sir,

K.A. Mr. ANIL GUPTA 31

**All your product Working Well**

Thanking you,

Yours faithfully,  
For SAKTHI SUGARS LTD.

**R. N. PANDA**  
DY. MANAGER - MATERIALS  
CELL: 09937091063

HEAD OFFICE : IN-CHARGE ROOM, 4057 BOKALY, CHANDRANAGAR, BANGALORE, KARNATAKA, INDIA. BANGALUR TALKIE, BANGALORE DISTRICT

**KVQA** **AKKREDITERING**

**Certificate of Registration**  
(Quality Management System)

**KVQA CERTIFICATION SERVICES PVT. LTD.**

This is to certify that the Quality Management System of  
**HIC INTERNATIONAL CO INC**  
D-136, Shankar Road, New Rajinder Nagar,  
New Delhi-110060, India

Has been found to be of the Quality Management System Standard  
**NS-EN ISO 9001:2008/ISO 9001:2008**

This certificate is valid for the following product or service range  
**Dealing Into Industrial Conveyor Belts Idlers, Drive Couplings Pulleys, Hydraulic Hoses Valves, Rubber Sheets.**

1<sup>st</sup> Surveillance Date on: 24/05/2011  
2<sup>nd</sup> Surveillance Date on: 01/05/2012

Certificate No: SQSC-1960  
Date of Issue: 01, June, 2010  
Valid until: 31, May, 2013\*

Issued by: [Signature]  
Authorized signatory KVQA

The certification body's accreditation is accredited by the Norsk Akkreditering of Norway with reference to the Parliamentary Proposition no 116 (1989/90) and Norsk Akkreditering's the status laid down in Royal Decree of 27<sup>th</sup> October 1993. Accredited by a member of IAF's MLA for Quality Systems

ISO Certificate

**Saurashtra Cement Limited**  
Registered Office  
Near Railway Station  
Ranavav - 360 560, Gujarat, (India)  
Tel. : + 91(02801)230824 / 225262/272829  
Fax : +91 (02801) 230830/230617  
E-mail : scl-rv@mehlagroup.com  
Gram : "SUCCESS"

2<sup>nd</sup> Feb. 2011

**TO WHOMSOEVER IT MAY CONCERN**

With reference to your letter dated 15<sup>th</sup> Jan.'01 this is to inform you that we have installed your H.I.C. UNNIVERSAL Make and Brand Rubber Conveyor Belts on critical installations at Limestone handling area of our 4000 TPD cement plant located at Ranavav. Performance of this Belts is found Highly Satisfactory while comparing to other makes life Andrew Yule. There has been no Stretch Problem and minimum within limit Elongation with smooth functioning observed during last 06 months.

We are happy with quality and urge to keep the same quality standards. Also, the quality and performance of your H.I.C. UNNIVERSAL Make Belts supplied to use is found very very satisfactory.

Shortly forwarding requirement of our other requirements for Conveyer belts and V-Belts manufactured by you.

Wish you all the Best.

[Signature]  
A. K. Nanda  
Dy. Gen. Mgr.(Mech.)

Corporate Office: Agrima Business Centre, N.K. Mehta International House, 178, Backbay Reclamation, Mumbai-400 020.  
Tel. : 91 22 56365 390/391, 56365 444 Fax : +91 22 2204 8122 E-mail : scl-rum@mehlagroup.com  
Marketing Office : Peacock Building, 7th Floor, N. Gujarat Chamber of Commerce, Ashram Road, Ahmedabad - 380 009.  
Tel. : (079) 6580135 / 6580137 / 6575979 Fax : (079)6587265, E-mail : scl-ahd@mehlagroup.com

**इंडियन ऑयल कॉर्पोरेशन लिमिटेड**  
**Indian Oil Corporation Limited**  
CORPORATE HEADQUARTERS, P. 1, NOKHAI, CONNAUT TOWNSHIP, NEW DELHI, INDIA. PHONE: 011-2610 1000, 2610 1001, 2610 1002, 2610 1003

Reference QR/TS/KR/09/06/24 date: July 19, 1999

To :  
M/s HIC International Co., Inc.  
Anil Kumar, D-136  
Shankar Road  
New Delhi - 110 060  
Fax No: 011 875 5000

Attention: Mr. Anil Gupta, Vice President

Subject: Rubber Conveyer Belt of DCU at Gawahati Refinery

Dear Sir,

Against our purchase order reference no. IQ/983542/1/750 dated 25/02/99, the conveyer belt supplied by you has been put to use. The date the performance is satisfactory. However, on review it is been noticed that the belts used to be produced with the following specifications earlier. The performance of the belts were very good. In view of the above, kindly let us know whether you can take up manufacturing as per this specification or not.

- NSM "Delux" Brand Custom Fabric Rubber Conveyer Belt
- 700 mm wide 8 ply type fabric 2002
- 4.0 mm top x 1.5 mm bottom rubber cover
- Grade "H4"

Thanking you,

Yours truly,  
For & on behalf of IOCL  
Gawahati Refinery  
[Signature]  
R.S. Atha  
Engineering Services Manager

संपन्न अधिकार : 0-3, अहमदाबाद रोड, अहमदाबाद, गुजरात, भारत  
Regd. Office : 0-3 Anand Jung Road, Bhatia Estate, Bombay-400081

# Many more certificates available as feedbacks are constantly monitored for providing highest customer's satisfaction.

## Total Quality Management Principles Followed

Vendor Data: [www.hic-india.com](http://www.hic-india.com) | Customers List: [www.universaldelhi.org](http://www.universaldelhi.org) | Catalogue: [www.rubber-steel-industrial-products.com](http://www.rubber-steel-industrial-products.com)





**Super-Sealing.**

**Anti-Slippage.**

**Abrasion Resistant**

**Rubber Skirt Lagging**

*TRUSTED BY MACHINERY OEMs OF MINING, CEMENT, PAPER, SUGAR, GRANITE SINCE 1988*

[www.conveyorskirt.com](http://www.conveyorskirt.com) | [www.textileconveyorbelt.com](http://www.textileconveyorbelt.com) | [www.hicconveyorbelts.com](http://www.hicconveyorbelts.com) | [www.hicrubbersheets-china.com](http://www.hicrubbersheets-china.com)

**HIC International Co Inc**

D-136, Shankar Road

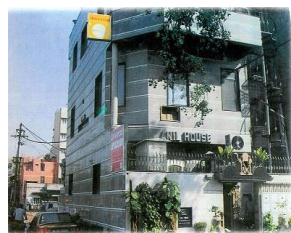
New Delhi 110060 India | Asia

**Phone:** + 91 (011) 2874 5120, 6547 2400, 3296 1400

**Fax:** 009111 28742791

**E-mail:** [universal@hic-india.com](mailto:universal@hic-india.com), [belts@universaldelhi.org](mailto:belts@universaldelhi.org)

**Contact Person:** Mr Anil Gupta - President, Ms Priyum - Exports Head



*HIC India Headquarters*

**Vendor Data:** [www.hic-india.com](http://www.hic-india.com) | **Customers List:** [www.universaldelhi.org](http://www.universaldelhi.org) | **Catalogue:** [www.rubber-steel-industrial-products.com](http://www.rubber-steel-industrial-products.com)

