# The Durham Rubber Company

LIMITED

Catalogue of

## Belting, Hose Packing

Mechanical Rubber Goods
Sundries, Cycle and
Solid Rubber Carriage

## Tires

OFFICE AND WAREROOMS

## Bowmanville

BRANCHES

TORONTO, [illegible] MONTREAL, [illegible] WINNIPEG, [illegible] VANCOUVER, B.C.

THE

# DURHAM RUBBER Company

Limited

MANUFACTURERS OF

THE HIGHEST GRADE OF BELTING, HOSE PACKING, AND OTHER RUBBER GOODS FOR MECHANICAL USE

## Full Catalogue

JANUARY

1907

THE DURHAM RUBBER CO'Y
LIMITED
BOWMANVILLE, ONT., CANADA

# To the Trade

HEREWITH we hand you our revised illustrated Catalogue. It contains a brief description of the goods we manufacture, accurately set forth, and the statements may be confidently relied upon.

Our productions cover a full line of Mechanical Rubber Goods of every description, Solid Rubber Carriage Tires, Bicycle Tires, etc., many of which we do not illlustrate herein, but on which we particularly solicit inquiries.

A careful study of the interests of our customers in the past has won their confidence. Our future efforts will be characterized by the same liberal methods.

We invite your requests for samples and prices, and assure you our goods will give entire satisfaction.

THE DURHAM RUBBER CO.
LIMITED

## Concerning Returned Goods

IT appears to us, after much experience, that both our customers and ourselves suffer if some regular organized system regarding returns is not in vogue, therefore, in our mutual interest, we beg to inform the trade that it will be necessary to furnish us with an itemized account of any defective goods, stating the causes of damage; and until we have received and passed such account no credits or acceptances will be made. All goods returned must be intact, and no goods will be received back that have been damaged by use, abuse or carelessness.

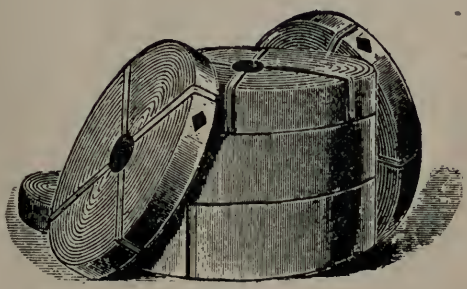
We believe that this rule will cause a more careful examination of the goods by our customers before they accept them from **their** trade, and trust that this will cement still further our cordial relations with you.

At considerable expense we have established a separate department for the careful examination and testing of all goods which we manufacture, before shipment. This enables us to guarantee all our goods to be **mechanically perfect** when they leave the factory.

We beg your co-operation in the carrying out of this rule in our mutual interests, and will add that we shall give our customers at all times the benefit of any reasonable doubt that may arise, assuring you that the **fullest guarantee** as to the wearing qualities goes with our **high grade** goods.

PART I

# BELTING



THE DURHAM RUBBER CO.
LIMITED

BOWMANVILLE, ONT., CANADA

## WE ARE THE MANUFACTURERS

### OF THE FOLLOWING

## FAMOUS BRANDS OF RUBBER BELTS

**Durham Stitched**
**Elephant**
**Black Diamond**
**Red Cross Brand**

We have carefully studied the Art of Belt-Making, and know what the Trade wants.

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## WE MANUFACTURE

**Main Drive and Grain Elevator Belts**
**Endless Thresher Belts**
**Paper Mill Belts**
**Oil Well Belts**
**Saw Mill Belts**
**Planer Belts**
**Stacker Belts**
**Belts for Bleacheries**
**Dye Works**
**Packing Houses**
**Brick Yards**
**Rolling Mills**
**Sugar Plants, Etc., Etc.**

Our factories are up-to-date and unsurpassed. We fill orders promptly.

## Belt Confidence and Samples

The furnishing of samples of belting to intending purchasers is a practice of frequent occurrence. We have always cheerfully furnished these upon request, and shall continue to do so in the future. Still we are led to believe that this is of little service to anyone. The quality of the rubber, the presence or absence of large quantities of adulteration, the quality and texture of the cotton duck, the weave, the amount of pressure used in vulcanizing—these and other important matters are hid from the view of most people. The wearing qualities of the belt will best disclose the quality of the goods.

Our belts have given satisfaction. About this there is no question. An expert might dissect a belt, and by subjecting it to chemical analysis, he could tell something of its construction. Anyone wishing to subject our goods to such a test will be given every opportunity for so doing.

Still the great majority of buyers have neither the desire nor facilities to prosecute this kind of an investigation. They want a good serviceable belt.

When assured that they are getting what they pay for, a price sufficient to justify a good article is willingly paid.

This is exactly the kind of trade we solicit. Let us know exactly the kind of service you want a belt to do. We will give you the benefit of expert information upon this subject. You will find that the information will be accurate, and that the advice, if followed, will save you money, time and trouble.

We want to serve our customers to the best possible advantage. We realize that our success will be measured by the quality and usefulness of our goods.

## About Rubber and Balata Belting

Compared with leather belting the Rubber Belting manufactured by us is not only much cheaper, but under certain conditions is capable of giving much longer and far better service.

**HERE'S THE "WHY" OF IT:**

Unlike leather Belting it is not affected by heat or moisture.

It can be used in all kinds of weather or in damp places.

It is of an even uniform width and thickness throughout.

It retains its flexibility in coldest weather.

When selecting belts for special uses, allow sufficient width so that they will run without slipping and still not be too tight. Tight belts add greatly to the friction of the bearings and necessarily waste power. Over 25 per cent. of the power used in a great many mills is required to drive shafting alone. Tight belts are responsible for much of this waste.

Where belts run at an angle of 45 degrees or less, apply power, when possible, so that the under side of the belt will do the driving. This allows the upper side to sag, increasing the arc of pulley contact, consequently the driving power.

Use pulleys as large as consistent in order that the stretch and compression caused by bending the belt around the pulleys can be reduced to the greatest possible extent. The importance of this increases with the thickness of the belt used.

The shafting should be hung perfectly level and parallel with the pulleys in line, and no projecting timber or flooring should come in contact with the belting.

Neglect of these essentials causes a very large part of all damage to belting.

Never allow animal or mineral oil or grease to come in contact with Rubber Belting, as they are positively injurious.

## Rubber Belting Information

Should the surface of the belt be peeled or rubbed by slipping, the following mixture may be applied with a brush, and will produce a fine surface.

### FORMULA

Equal parts of red lead, black lead, French yellow and litharge. Mix boiled linseed oil and add enough Japan to make it dry quickly. Let it dry before running the belt.

It frequently happens that Rubber Belting slips from an accumulation of dust or other causes. To prevent this moisten lightly on the inner side with boiled linseed oil.

When a tightening pulley is used it should be applied to the slack side of the belt near the small pulley.

The weight of belt needed depends on three conditions, viz :

FIRST—The tension of the belt.

SECOND—The size of the smaller pulley and proportion of the surface touched by the belt.

THIRD—The speed of the belt.

As the adhesion of the belt to the pulley-surface is a vital element in all calculations of power transmission, it is important to note that the adhesion of Rubber Belting to various forms of pulley-surface is 40 to 80 per cent. greater than that of leather belting.

Do not overtax nor run them tighter than necessary.

By covering pulleys with a piece of belting, securely attached, the adhesion of the belt is greatly increased.

In adjusting a new Rubber or Balata Belt it should be cut 1/8 to 3/16 inch shorter per foot than actual measurement, and the ends brought together by clamps.

*A four-ply Rubber Belt is equal to a single leather belt.*
*A six-ply Rubber Belt is equal to a double leather belt.*

## To Measure Belting in Rolls, when Closely Rolled

RULE—The sum of the diameter of the roll and the diameter of the centre hole in inches, multiplied by the number of coils in the roll, and this product multiplied by the decimal .132 equal very closely number of feet.

### EXAMPLE

Roll of 5 inch, 3-ply High Grade Belt measures $37\frac{5}{8}$ inches in diameter; hole $4\frac{5}{8}$ inches diameter; number of coils in roll, 84 :—$37\frac{5}{8} + 4\frac{5}{8} = 42\frac{1}{4} \times 84 = 3549 \times .132 = 468.468$ or $468\frac{1}{2}$ feet.

Length of roll by actual measurement, 469 feet.

Full rolls of belting measure about 380 to 400 feet, but more or less can be sent if desired.

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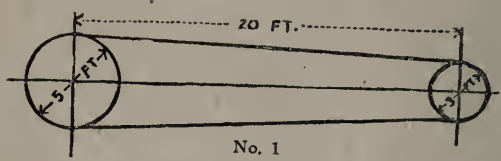
## To Find the Length of a Belt

When pulleys are small or about the same diameters, add the diameters of the two pulleys together, divide the result by two, and multiply the quotient by three and one-seventh. Add the product to twice the distance between the centres of shafts, and you have the length required.




No. 1

### EXAMPLE

5 diam. one pulley.
3 " " "
—
2)8 sum of diameters.
—
$4 = \frac{1}{2}$ sum.
3 1/7
—
12.57 ft.

20 ft. dist. between centres
2
—
40 ft.
12 57 ft.
—
52.57 ft. = { 52 ft. $6\frac{7}{8}$ in. Length of belt.

## Putting on Belting

In putting on Belting it should be stretched as tightly as possible. With wide belts this can be done best by the use of clamps secured firmly to each end of the belt and drawn together by clamp-rods running parallel with and outside the edges of the belt. There is no danger of breaking, as a belt six inches wide and three-ply thick will stand a direct strain of five thousand pounds, and other sizes in proportion.

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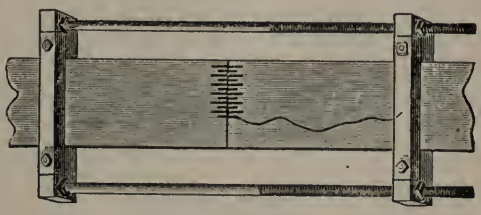
## Butt Splice

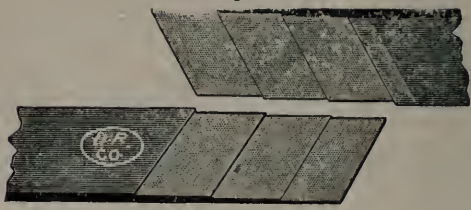
To properly lace Rubber Belting. cut the ends square, so the stretch, if any, will be even. Punch two rows of holes in each end with a smooth, oval or round punch, and after stretching belt tightly butt the ends together and lace with lace leather.



No. 2

The clamps shown in above cut are especially designed for making a perfect butt splice. By their use the belt can be adjusted over pulleys, the ends brought evenly and closely together, and the lacing done easily and quickly.

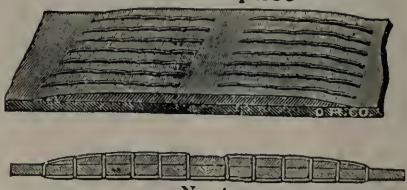
## Lap Splice



No. 3

A lap splice may be made by "stepping" the ends of the belt for a distance equal to or greater than the width of the belt, as shown in cut, or removing a portion of the plies of duck. The scarfed surfaces should be thoroughly coated with rubber cement, and when dry, closely fitted and firmly pressed together. Then punch carefully and sew through with lace leather. This splice may be protected by carefully cementing to the inner side a piece of rubber-frictioned canvas.

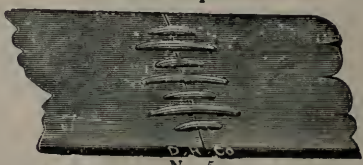
## Back Splice



No. 4

For wide belts, where riveted lap splice is not used, butt the ends, and in addition put a piece of leather or Rubber Belting on the back to strengthen the joint, equal in length to about one-half the width of the belt, and sew or rivet it to the belt, as shown.

## Lace Splice



No. 5

The ordinary lace splice in general use.

## Table and Directions for Spacing Holes for Lacing Belts

| Width of Belt | Punch *first* row of lace holes from *ends* of belt | Punch *second* row of lace holes from ends of belt | Centres of *outer holes* on the row nearest the ends of the belt to be distant from each *edge* of the belt | Size of lace leather to be used |
|---|---|---|---|---|
| 2 to 4 in. | $\frac{3}{8}$ in. | $\frac{3}{4}$ in. | $\frac{3}{8}$ in. | $\frac{3}{16}$ in. |
| 6 to 8 " | $\frac{1}{2}$ " | 1 " | $\frac{1}{2}$ " | $\frac{1}{4}$ " |
| 10 to 12 " | $\frac{5}{8}$ " | $1\frac{1}{4}$ " | $\frac{5}{8}$ " | $\frac{5}{16}$ " |
| 14 to 16 " | $\frac{3}{4}$ " | $1\frac{1}{2}$ " | $\frac{3}{4}$ " | $\frac{3}{8}$ " |
| 18 to 20 " | $\frac{7}{8}$ " | $1\frac{3}{4}$ " | $\frac{7}{8}$ " | $\frac{7}{16}$ " |
| 22 to 24 " | 1 " | 2 " | 1 " | $\frac{1}{2}$ " |

No. 6.

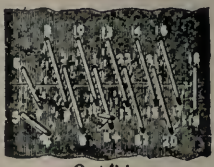
Square the ends of the belt accurately, and after the location of the centres of the outer holes on the first row has been determined from the foregoing table, divide the intervening distance into an even number of spaces, making them as nearly equal as possible to the distance that the outer holes in the row are from the edges of the belt, but the length of the divisions should not exceed this distance.

Punch holes at every other point in the first line and at the intermediate points in the second row. The diameter of these holes should be about three fourths the width of the lacing used, which width is given on the table above.

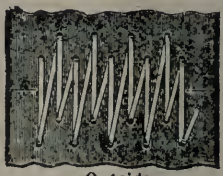
Begin to lace at the centre, lacing towards one edge, return to centre, cross to other edge and back

# Various Other Methods of Lacing and Fastening Rubber Belting

Pulley Side.

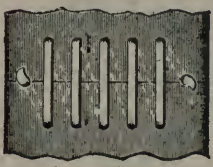

Outside.

Pulley Side.


Outside.

Pulley Side.

Outside.


Pulley Side.

Outside.

Pulley Side.

Outside.

No. 7

to centre, finishing with both ends of the lacing in the same hole, but entering it from opposite sides of the belt. Make a hole with a belt awl about one half-inch from the hole at which the lacing was started and finished, tuck both ends of the lacing through this awl hole, pull tight and cut them off, leaving about one-half inch ends.

## Grain Elevator and Main Drive Belts

No. 8

We make a specialty of these belts. The plies range, as a rule, from five to ten, as the work may require.

The given horse power of the engine, the position of the various lines of shafting, together with the power necessary to run the different machines, are all important matters for consideration when selecting a main or drive belt. We are in a position to assist our customers in selecting a belt best suited to their needs,—one that will give the best results. Upon receipt of full information we will gladly give our customers advice and suggestions upon these points. Because of our many year's experience these suggestions will be of great service.

These belts are generally made to order, and we can do this work upon short notice.

Our belts are perfectly straight, uniform in thickness, and have perfectly smooth surface. They have always given good satisfaction.

# DURHAM

## SEAMLESS COVER

This is the very highest grade of belt made, and will satisfy the most exacting. It is made of a heavy, close-woven duck and high-grade rubber. A long experience shows that the life of a seamless belt far exceeds that of the old style seamed belt.

Either side can be run next to the pulley.

All of our belting is made with great care, and is thoroughly stretched.

Special orders for belting of any thickness and width can be executed within a week from receipt of the order.

EXTRA QUALITY

A strictly high-grade Belt of superior quality.
Equal to the highest grade.
Warranted to give perfectly satisfactory results.
Made from heavy woven cotton duck.
Extra strong tenacious friction.
Guaranteed to withstand the most severe service.

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## Black Diamond

An excellent quality made from heavy cotton duck.

A friction which has stood the test for years.

Made by same process as our Elephant.

Will fully meet the requirements of the class of buyers who desire a good belt at a reasonable price.

Should not be confounded with cheap grades.

Is a much higher and better class.

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## Red Cross

A good Belt, carefully made from good material.

For ordinary work will give good satisfaction.

It is of the same class as the so-called Standard Belting made by other manufacturers.

## Endless Belts

No. 9.

These are made to order. Three extra feet will be charged for the splice, subject to the regular discount.

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## Thresher Belts

The large demand for an extra serviceable belt for use on threshing machines and other agricultural implements, has warranted us in making one specially adapted for this purpose.

As the engine and boiler, for safety from fire, must be located at a considerable distance from the buildings and crop, it is necessary to use belts of considerable length, which are seldom, if ever, supported between the driving and driven pulleys.

As they are exposed to the elements, it is of the utmost importance that the cotton duck be thoroughly protected.

With the above conditions to meet we designed our "Thresher" belt, combining flexibility and strength with a superior cover and friction.

## Standard Rubber Belt List

| Inch | 2-Ply | 3-Ply | 4-Ply | 5-Ply | 6-Ply | 7-Ply | 8-Ply |
|---|---|---|---|---|---|---|---|
| 1 | $0 07 | $0 09 | $0 11 | | | | |
| 1¼ | 09 | 11 | 13 | | | | |
| 1½ | 11 | 13 | 15 | $0 19 | | | |
| 1¾ | 13 | 15 | 17 | 21 | | | |
| 2 | 15 | 17 | 21 | 26 | $0 31 | | |
| 2½ | 18 | 22 | 26 | 33 | 39 | | |
| 3 | 22 | 26 | 31 | 39 | 47 | | |
| 3½ | 26 | 30 | 37 | 46 | 56 | | |
| 4 | 30 | 34 | 42 | 53 | 63 | | |
| 4½ | 33 | 39 | 47 | 59 | 71 | | |
| 5 | 36 | 43 | 52 | 65 | 78 | | |
| 6 | 43 | 52 | 62 | 78 | 93 | $1 08 | $1 24 |
| 7 | 51 | 60 | 73 | 91 | 1 10 | 1 28 | 1 46 |
| 8 | 59 | 70 | 84 | 1 05 | 1 26 | 1 47 | 1 68 |
| 9 | 67 | 80 | 95 | 1 18 | 1 42 | 1 66 | 1 90 |
| 10 | 75 | 90 | 1 07 | 1 33 | 1 60 | 1 87 | 2 14 |
| 11 | 83 | 1 00 | 1 18 | 1 47 | 1 77 | 2 06 | 2 36 |
| 12 | 91 | 1 08 | 1 30 | 1 62 | 1 95 | 2 27 | 2 60 |
| 13 | 1 00 | 1 18 | 1 42 | 1 77 | 2 13 | 2 48 | 2 84 |
| 14 | 1 08 | 1 28 | 1 54 | 1 92 | 2 31 | 2 69 | 3 08 |
| 15 | 1 16 | 1 38 | 1 66 | 2 07 | 2 49 | 2 90 | 3 32 |
| 16 | 1 25 | 1 50 | 1 78 | 2 22 | 2 67 | 3 11 | 3 56 |
| 18 | 1 41 | 1 70 | 2 02 | 2 52 | 3 03 | 3 53 | 4 04 |
| 20 | 1 58 | 1 90 | 2 26 | 2 82 | 3 39 | 3 95 | 4 52 |
| 22 | 1 76 | 2 12 | 2 52 | 3 15 | 3 78 | 4 41 | 5 04 |
| 24 | 1 96 | 2 36 | 2 80 | 3 50 | 4 20 | 4 90 | 5 60 |
| 26 | 2 18 | 2 60 | 3 08 | 3 85 | 4 62 | 5 39 | 6 16 |
| 28 | 2 42 | 2 84 | 3 36 | 4 20 | 5 04 | 5 88 | 6 72 |
| 30 | 2 55 | 3 10 | 3 64 | 4 55 | 5 46 | 6 37 | 7 28 |
| 32 | 2 75 | 3 35 | 3 92 | 4 90 | 5 88 | 6 86 | 7 84 |
| 34 | 2 95 | 3 60 | 4 20 | 5 25 | 6 30 | 7 35 | 8 40 |
| 36 | 3 15 | 3 85 | 4 48 | 5 60 | 6 72 | 7 84 | 8 96 |
| 38 | 3 35 | 4 10 | 4 76 | 5 95 | 7 14 | 8 33 | 9 52 |
| 40 | 3 65 | 4 35 | 5 04 | 6 30 | 7 56 | 8 82 | 10 08 |
| 42 | 3 75 | 4 60 | 5 32 | 6 65 | 7 98 | 9 31 | 10 64 |
| 44 | 3 95 | 4 85 | 5 60 | 7 00 | 8 40 | 9 80 | 11 20 |
| 46 | 4 15 | 5 10 | 5 88 | 7 35 | 8 82 | 10 29 | 11 76 |
| 48 | 4 35 | 5 35 | 6 16 | 7 70 | 9 24 | 10 78 | 12 32 |
| 50 | ..... | ..... | 6 44 | 8 05 | 9 66 | 11 27 | 12 88 |
| 52 | ..... | ..... | 6 72 | 8 40 | 10 08 | 11 76 | 13 44 |
| 54 | ..... | ..... | 7 00 | 8 75 | 10 50 | 12 25 | 14 00 |
| 56 | ..... | ..... | 7 28 | 9 10 | 10 92 | 12 74 | 14 56 |
| 58 | ..... | ..... | 7 56 | 9 45 | 11 34 | 13 23 | 15 12 |
| 60 | ..... | ..... | 7 84 | 9 80 | 11 76 | 13 72 | 15 68 |

ALL OTHER WIDTHS AND PLIES AT PROPORTIONATE PRICES.

PART II

# HOSE

THE DURHAM RUBBER CO.
LIMITED

BOWMANVILLE, ONTARIO, CANADA

## WE ARE THE MANUFACTURERS

OF THE FOLLOWING

## FAMOUS BRANDS OF HOSE

**Durham**
**Gold Seal**
**Red Cross**
**Cascade**

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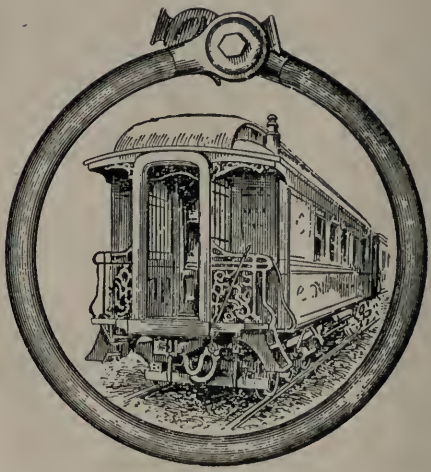
## WE MANUFACTURE

**Steam, Air Drill,**
**Garden, Mill,**
**Fire Department,**
**Divers, Air Brake,**
**Brewers, Acid,**
**Tanners, Oil,**
**Suction, Hydrant,**
**Car Heating,**
**Pneumatic Tool.**



No. 10.

## Air-Brake Hose

So much depends upon the absolute reliability of Air-Brake Hose that railroad officials always recognize the policy of buying the best manufactured, and willingly pay the price for an article that they are convinced will not fail in an emergency, but will render the service required, and thus reduce the hazard to a minimum. This is demonstrated by actual tests and usage.

To maintain this recognized standard of excellence we have woven, for our exclusive use, a cotton duck, which is not only guaranteed to stand the requisite air pressure, but still has sufficient strength in reserve to meet any and all emergencies.

# Air-Brake Hose

Our Air-Brake Hose is thoroughly tested by experts before leaving our factory, and can be put in use with absolute certainty that it will meet all requirements.

On each piece of Air-Brake or Signal Hose we attach a brand showing our name, name of railroad, month and year of manufacture, and a table of letters showing years and months, so that a perfect record of the service can be kept, as shown in cut.

No. 11.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | inch, | 4-ply | internal | drain..... | $ 83 | per | foot |
| 1¼ | " | " | " | " ..... | 1 04 | " | " |
| 1½ | " | " | " | " ..... | 1 25 | " | " |

## 22-inch Lengths—with capped ends

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | inch, | 4-ply | internal | drain..... | $2 00 | per | length |
| 1¼ | " | " | " | " ..... | 2 50 | " | " |

# Steam Hose

More difficulties have been encountered by manufacturers in making good steam hose than any other kind. This is because of the penetrating and destroying effects of steam upon rubber. Hose can be made to easily withstand the required pressure but the intense heat accompanying it causes the rubber to gradually harden and lose its adhesive and elastic qualities. To offset this it is necessary to use a tube specially compounded to withstand such action, and still retain its life and elasticity and protect the cotton duck. By experiments and practical tests we long since decided upon a stock best adapted for this purpose.

We also use a heavy and specially-woven duck, to secure a hose that will stand the requisite pressure, but we would urge consumers, in order to secure the best economy, to select those of the number of plies specified in table on next page.

Table showing degrees of heat to pounds pressure :

| Steam Gauge | Heat | Steam Gauge | Heat |
|---|---|---|---|
| 0 | 212 | 55 | 303 |
| 1 | 216 | 60 | 307 |
| 2 | 219 | 65 | 312 |
| 3 | 222 | 70 | 316 |
| 4 | 225 | 75 | 320 |
| 5 | 228 | 80 | 324 |
| 10 | 240 | 85 | 328 |
| 15 | 250 | 90 | 331 |
| 20 | 259 | 95 | 334 |
| 25 | 267 | 100 | 338 |
| 30 | 274 | 105 | 341 |
| 35 | 281 | 110 | 344 |
| 40 | 287 | 115 | 347 |
| 45 | 292 | 120 | 350 |
| 50 | 298 | 125 | 353 |

## Steam Hose—Continued

Number of plies to order in steam hose, size of hose and steam pressure being given :

| 20 Lbs. Pressure | 30 Lbs. Pressure | 40 Lbs. Pressure |
|---|---|---|
| Order 4-ply for ½ | Order 4-ply for ½ | Order 4-ply for ½ |
| " 4 " ¾ | " 4 " ¾ | " 4 " ¾ |
| " 4 " 1 | " 4 " 1 | " 4 " 1 |
| " 4 " 1¼ | " 4 " 1¼ | " 4 " 1¼ |
| " 4 " 1½ | " 4 " 1½ | " 5 " 1½ |
| " 4 " 2 | " 5 " 2 | " 6 " 2 |

| 50 Lbs. Pressure | 60 Lbs. Pressure | 70 Lbs. Pressure |
|---|---|---|
| Order 4-ply for ½ | Order 4-ply for ½ | Order 5-ply for ½ |
| " 4 " ¾ | " 5 " ¾ | " 6 " ¾ |
| " 5 " 1 | " 6 " 1 | " 7 " 1 |
| " 5 " 1¼ | " 6 " 1¼ | " 7 " 1¼ |
| " 5 " 1½ | " 6 " 1½ | " 8 " 1½ |
| " 8 " 2 | " 8 " 2 | " 10 " 2 |

| 80 Lbs. Pressure | 90 Lbs. Pressure | 100 Lbs. Pressure |
|---|---|---|
| Order 6-ply for ½ | Order 6-ply for ½ | Order 8-ply for ½ |
| " 6 " ¾ | " 6 " ¾ | " 8 " ¾ |
| " 8 " 1 | " 8 " 1 | " 10 " 1 |
| " 8 " 1¼ | " 9 " 1¼ | " 10 " 1¼ |
| " 9 " 1½ | " 10 " 1½ | " 10 " 1½ |
| " 10 " 2 | | |

Where steam pressure is over 80 pounds, in order to get best results we recommend that, in addition, it be wrapped with marline.

# Steam Hose

PRICE LIST

| Internal Diameter | 3-Ply | 4-Ply | 5-Ply | 6-Ply |
|---|---|---|---|---|
| ½ inch ..... | $0 43 | $0 51 | $0 63 | $0 76 |
| ¾ " ..... | 51 | 67 | 83 | 1 00 |
| 1 " ..... | 67 | 83 | 1 03 | 1 24 |
| 1¼ " ..... | 85 | 1 04 | 1 30 | 1 56 |
| 1½ " ..... | 1 02 | 1 25 | 1 56 | 1 87 |
| 1¾ " ..... | 1 18 | 1 45 | 1 81 | 2 17 |
| 2 " ..... | 1 34 | 1 66 | 2 07 | 2 49 |
| 2½ " ..... | 1 66 | 2 08 | 2 60 | 3 12 |
| 3 " ..... | 2 00 | 2 80 | 3 50 | 4 20 |

For each additional ply add 25 per cent. of 4-ply prices.

Marline winding steam hose 10 per cent. advance on list prices, net.

Wire winding steam hose as per separate list, page 30.

# HOSE

**FOR BREWERS, TANNERS, OIL, ACID, HYDRAULIC, SUB-MARINE AND OTHER SPECIAL PURPOSES MADE TO ORDER. LIST PRICE SAME AS STEAM HOSE. . . . .**

Our Brewers' Hose is made from a special preparation which will stand heat, and is odorless.

# Water Hose

PRICE LIST

| Internal Diameter | 2-Ply Per Foot | 3-Ply Per Foot | 4-Ply Per Foot | 5-Ply Per Foot |
|---|---|---|---|---|
| ½ inch | $0 20 | $0 25 | $0 30 | $0 37 |
| ¾ " | 25 | 30 | 37 | 46 |
| 1 " | 33 | 40 | 50 | 62 |
| 1¼ " | 42 | 50 | 62 | 77 |
| 1½ " | 50 | 60 | 75 | 93 |
| 1¾ " | 58 | 70 | 87 | 1 08 |
| 2 " | 66 | 80 | 1 00 | 1 25 |
| 2¼ " | 75 | 90 | 1 12 | 1 40 |
| 2½ " | 83 | 1 00 | 1 25 | 1 56 |
| 2¾ " | 92 | 1 10 | 1 37 | 1 71 |
| 3 " | 99 | 1 20 | 1 50 | 1 87 |
| 3½ " | 1 15 | 1 40 | 1 75 | 2 20 |
| 4 " | 1 32 | 1 60 | 2 00 | 2 50 |
| 5 " | 1 65 | 2 00 | 2 50 | 3 12 |
| 6 " | 1 98 | 2 40 | 3 00 | 3 75 |

On all kinds of hose, intermediate sizes will be charged at the list price of the next larger size, thus ⅞ will be charged at 1 inch price, etc.

Six-ply hose made at an advance of 50 per cent. on 4-ply list.

# Air Drill Hose

PRICE LIST

| Internal Diameter | 4 ply 3 ply inside and 1 ply outside, per foot. | 5 ply 4 ply inside and 1 ply outside, per foot | 6 ply, 5 ply inside and 1 ply outside, per foot. |
|---|---|---|---|
| ¾ inch... | $0 67 | $0 83 | $1 00 |
| 1 " .... | 83 | 1 03 | 1 24 |
| 1¼ " .... | 1 04 | 1 30 | 1 56 |
| 1½ " .... | 1 25 | 1 56 | 1 87 |
| 2 " .... | 1 66 | 2 07 | 1 49 |

Marline wound Air Drill Hose at 10 per cent. advance on list prices net.

# Pneumatic Tool Hose

The enormous increase in the use of PNEUMATIC TOOLS has rendered necessary the manufacture of a special hose that will stand the great pressure to which this kind of hose is subject and yet be sufficiently light and resilent to enable it to be easily carried about and used in any corner or position where a tool can be used. Our hose, for which we give prices below, answers in a remarkable degree all the requirements of this class of Tools and wherever tried has proved in the highest degree satlsfactory.

| | | | | | |
|---|---|---|---|---|---|
| ¼ inch | diameter | inside..... | per foot | $0 | 30 |
| ⅜ " | " | " ..... | " | | 36 |
| ½ " | " | " .... ..... | " | | 45 |
| ¾ " | " | " ..... | " | | 60 |
| 1 " | " | " .... ..... | " | | 80 |

# List Price for Wire Winding Rubber Hose

## Water and Pneumatic Tool Hose, Wound with Round Wire.

| Inch. | | 3-Ply | 4-Ply | 5-Ply | 6-Ply |
|---|---|---|---|---|---|
| ½ | per foot | $0 03 | $0 04 | $0 05 | $0 06 |
| ¾ | " | 04 | 05 | 06 | 07 |
| 1 | " | 05 | 07 | 08 | 09 |
| 1¼ | " | 06 | 08 | 09 | 10 |
| 1½ | " | 07 | 09 | 10 | 11 |
| 1¾ | " | 09 | 10 | 11 | 12 |
| 2 | " | 10 | 11 | 12 | 13 |
| 2¼ | " | 11 | 12 | 13 | 14 |
| 2½ | " | 12 | 13 | 14 | 15 |

## Steam, Brewers' and Air Drill Hose, wound with Round Wire

| Inch | 3-Ply | 4-Ply | 5-Ply | 6-Ply | 7-Ply | 8-Ply |
|---|---|---|---|---|---|---|
| ½ per ft. | $0 06 | $0 07 | $0 08 | $0 09 | $0 10 | $0 11 |
| ¾ " | 07 | 08 | 09 | 10 | 11 | 12 |
| 1 " | 08 | 09 | 10 | 11 | 12 | 13 |
| 1¼ " | 09 | 10 | 11 | 12 | 13 | 14 |
| 1½ " | 10 | 11 | 12 | 13 | 14 | 15 |
| 1¾ " | 11 | 12 | 13 | 14 | 15 | 16 |
| 2 " | 13 | 14 | 15 | 15 | 17 | 18 |
| 2¼ " | 15 | 16 | 17 | 18 | 19 | 20 |
| 2½ " | 17 | 18 | 19 | 20 | 21 | 22 |

## Steam, Brewers', Air Drill and Pneumatic Tool Hose, wound with Flat Wire

| Inch | 3-Ply | 4-Ply | 5-Ply | 6-Ply | 7-Ply | 8-Ply |
|---|---|---|---|---|---|---|
| ½ per ft. | $0 09 | $0 10 | $0 11 | $0 12 | $0 13 | $0 14 |
| ¾ " | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 " | 13 | 14 | 15 | 16 | 17 | 18 |
| 1¼ " | 15 | 16 | 17 | 18 | 19 | 20 |
| 1½ " | 18 | 19 | 20 | 21 | 22 | 23 |
| 1¾ " | 20 | 21 | 22 | 23 | 24 | 25 |
| 2 " | 22 | 24 | 25 | 26 | 27 | 28 |
| 2¼ " | 25 | 26 | 27 | 28 | 29 | 30 |
| 2½ " | 27 | 28 | 29 | 30 | 31 | 32 |

# SUCTION HOSE

## Agricultural and Hard Rubber

| Internal Diam. | Per foot | Internal Diam. | Per foot |
|---|---|---|---|
| 1 inch | $0 75 | 2 inch | $1 50 |
| 1¼ " | 93 | 2¼ " | 1 69 |
| 1½ " | 1 13 | 2½ " | 1 88 |
| 1¾ " | 1 31 | | |

## Spiral Wire

| Internal Diam. | Per foot | Internal Diam. | Per foot |
|---|---|---|---|
| ¾ inch | $0 70 | 3 inch | $4 00 |
| 1 " | 90 | 3½ " | 4 90 |
| 1¼ " | 1 15 | 4 " | 5 80 |
| 1½ " | 1 50 | 4½ " | 6 70 |
| 1¾ " | 1 90 | 5 " | 7 60 |
| 2 " | 2 30 | 5¼ " | 8 50 |
| 2½ " | 3 10 | 6 " | 9 50 |

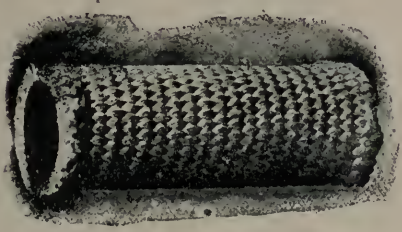
## Smooth Bore on Spiral Wire

| Internal Diam. | Per foot | Internal Diam. | Per foot |
|---|---|---|---|
| 2 inch | $2 60 | 4 inch | $6 50 |
| 2½ " | 3 50 | 4½ " | 7 50 |
| 3 " | 4 50 | 5 " | 8 50 |
| 3½ " | 5 50 | 5½ " | 9 50 |
| | | 6 " | 10 50 |

# COTTON

## Garden and Mill Hose

### Rubber Lined



| | | | | | |
|---|---|---|---|---|---|
| ½ inch | ..... | 25 | cents | per | foot |
| ¾ " | ..... | 30 | " | " | " |
| 1 " | ..... | 40 | " | " | " |
| 1¼ " | ..... | 50 | " | " | " |
| 1½ " | ..... | 60 | " | " | " |
| 2 " | ..... | 80 | " | " | " |
| 2¼ " | ..... | 90 | " | " | " |
| 2½ " | ..... | $1.00 | " | " | " |

The jacket of our cotton hose is circular woven and made of the best long staple cotton. The tube is seamless and made of pure gum, tough and elastic. We guarantee this hose to withstand the pressure of any water-works system in the country, and to have a great deal of reserve strength. It is easily handled on account of its lightness, and if given a reasonable amount of care wlll last for years.

# FIRE HOSE

The quality of our Fire Hose, both in the Jackets and Lining, is unsurpassed. It has stood the most stringent tests and proved itself by usage as well.

## Double Jacket

| Quality | | 1½ in. dia. | 2 in. dia. | 2½ in. dia. |
|---|---|---|---|---|
| Durham<br>Empire | Per foot, | $1.40 | $1.60 | $1.80 |
| | Multiple Woven Jacket | | | |
| Magnet<br>Turbine | Per foot, | $1.40 | $1.60 | $1.80 |

## Single Jacket

| Quality | | 1½ in. dia. | 2 in. dia. | 2½ in. dia. |
|---|---|---|---|---|
| Gold Seal<br>Monarch | Per foot, | $0.86 | $0.97 | $1.12 |

## Underwriters

| Quality | | 2⅝ in. dia. |
|---|---|---|
| Durham | Per foot, | $1.00 |

DISCOUNTS ON APPLICATION

---

## Nozzles—Plain, Short

| | |
|---|---|
| 1½ inch diameter | $3 60 |
| 2 " " | 4 40 |
| 2½ " " | 7 00 |

---

## Couplings

| | |
|---|---|
| 1½ inch diameter | $2 00 |
| 2 " " | 4 25 |
| 2½ " " | 5 25 |

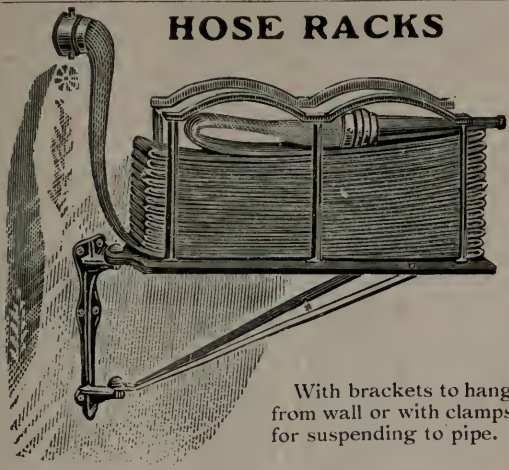
When ordering fire hose always send sample of coupling so that we can suit the thread.

---

## Linen Hose, Unlined

| Internal Diam. | Per Foot | Internal Diam. | Per Foot |
|---|---|---|---|
| 1 inch | $0 20 | 2 inch | $0 36 |
| 1¼ " | 24 | 2¼ " | 40 |
| 1½ " | 30 | 2½ " | 45 |

# HOSE RACKS



With brackets to hang from wall or with clamps for suspending to pipe.

Unlined Linen

| No. | Capacity | Size Hose | Description of Hose Height | Length | Price |
|---|---|---|---|---|---|
| 70 | 50 ft. | 1¼ in. or 1½ in. | 11 in. | 22 in. | $5.00 |
| 71 | 50 ft. | ..... 2 in. ..... | 11 in. | 22 in. | 5.00 |
| 72 | 50 ft. | .....2½ in. .... | 11 in. | 22 in. | 5.00 |
| 73 | 100 ft. | 1¼ in. or 1½ in. | 16 in. | 24 in. | 6.00 |
| 74 | 100 ft. | .. ...2 in. ..... | 16 in. | 24 in. | 6.00 |
| 75 | 100 ft. | .....2¼ in. .... | 16 in. | 24 in. | 6.00 |
| 76 | 150 ft. | 1¼ in. or 1½ in. | 23 in. | 26 in. | 7.00 |
| 77 | 150 ft. | ..... 2 in. .... | 23 in. | 26 in. | 7.00 |
| 78 | 150 ft. | . ...2¼ in. .... | 23 in. | 26 in. | 7.00 |
| 79 | 200 ft. | 1¼ in. or 1½ in. | 34 in. | 32 in. | 7.50 |
| 80 | 200 ft. | .....2 in. .... | 34 in. | 32 in. | 7.50 |
| 81 | 200 ft. | .....2½ in. .... | 34 in. | 32 in. | 8.00 |

Cotton Rubber-lined Mill

| | | | | | |
|---|---|---|---|---|---|
| 76 | 50 ft. | 1¼ in. or 1½ in. | 23 in. | 26 in. | 7.00 |
| 77 | 50 ft. | .....2 in. .... | 23 in. | 26 in. | 7.00 |
| 78 | 50 ft. | .....2½ in. .... | 23 in. | 26 in. | 7.00 |
| 79 | 100 ft. | 1¼ in. or 1½ in. | 34 in. | 32 in. | 7.50 |
| 80 | 100 ft. | .....2 in. .... | 34 in. | 32 in. | 7.50 |
| 81 | 100 ft. | .....2½ in. .... | 34 in. | 32 in. | 8.00 |

Nos. 70, 71 and 72 will be furnished to hold 75 ft. of hose, adding 50 cents to list price. Size, 14 in. x 22 in.

NOTICE—To avoid mistakes, and to get the proper rack when you order, give size, kind and length of hose.

When you order racks with pipe clamps, be sure to give size of pipe they are to fit. If not standard size pipe, you must give the outside diameter. Pipe clamps, up to and including 4 inches, furnished without extra charge.

# Warehouse, Factory and Mill Carts

These carts are made in three sizes, intended for use in places where only a small quantity of hose is required. They are substantially built, and capable of withstanding rough usage. The frame and reel are made of tubular steel, and the wheels are wood. They have tool box in front and friction roller at rear. Neatly painted and striped.

| Number of Carts | 440 | 441 | 442 | 443 |
|---|---|---|---|---|
| Height of wheels | 40 in. | 44 in. | 48 in. | 52 in. |
| Extreme outer width | 38 in. | 42 in. | 48 in. | 54 in. |
| Extreme length | 5 ft. 6 in. | 6 ft. | 6 ft. 6 in. | 7 ft. |
| Weight complete | 110 lbs. | 150 lbs. | 210 lbs. | 250 lbs. |
| Capacity, 1½ inch Cotton Rubber-Lined Mill Hose | 400 ft. | 500 ft. | 650 ft. | 800 ft. |
| Capacity, 2 inch Cotton Rubber-lined Mill Hose | 250 ft. | 350 ft. | 500 ft. | 600 ft. |
| Capacity, 2½ inch Cotton Rubber-lined Mill Hose | 200 ft. | 300 ft. | 400 ft. | 500 ft, |
| **Price** | **$35** | **$45** | **$55** | **$65** |

PART III

# PACKINGS

THE DURHAM RUBBER CO.
LIMITED
BOWMANVILLE, ONTARIO, CANADA

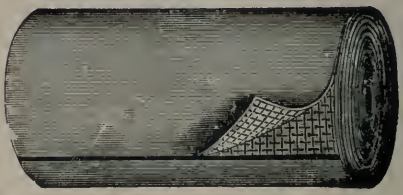
## Blue Diamond Sheet Packing

The ingredients in our Blue Diamond Sheet Packing are selected for their capacity to withstand a high degree of heat, and we have succeeded in producing a compound that has proved remarkably successful in a great many places where other packings have failed to give satisfaction. This packing will also resist the action of oil for a much longer time than rubber packings usually do.

Blue Diamond Packing is equally well adapted for air, steam or water joints.

Pure, 1-32 inch thick and upwards, $1.00 per lb.

## Wire Insertion, Packing



No. 22

Made in sizes 1-16-inch and upwards.

This packing is sometimes preferable to cloth insertion on account of the wire remaining intact when under extreme temperature of heat, which would destroy a cloth insertion.

Price .....80 cents per pound.

There is One ply of wire in 1-16-inch thick.
Two " " 1-8 "
Two " " 3-16 "
Two " " 1-4 "

## Turbine Asbestos Packing

This is a specially made packing for joints subject to great heat and pressure. It is so constructed that it is impossible to blow it out and, of course, being asbestos, it cannot be burned out. If once it is tried no other will be accepted in place of it.

Made any thickness from 1-16-inch.

Price ..... .....$1.00 per pound.

# Magnet Packing

No. 13

We have devoted more than ordinary attention to the manufacture of Sheet Packing, knowing that much trouble and disappointment has been caused consumers by the many cheap and worthless grades which have been placed on the market. We thereupon determined to produce a packing which would be distinctively in a class by itself; a packing that would be recognized by the trade as far superior to any manufactured, and which could not fail to win for itself an enviable reputation strictly upon its merits. The result is our famous Magnet Sheet Packing, which stands without a peer.

Among its many superior properties we mention the following:

It is not affected in any manner by oil, liquor, ammonia or alkali.

It is suitable for high or low pressure, particularly high pressure, as heat does not affect it.

It makes a tight joint under air or hot or cold water pressure.

It will not blow out, nor is it affected by expansion or contraction.

It does not become hard or brittle, but on the contrary retains its tough elastic properties.

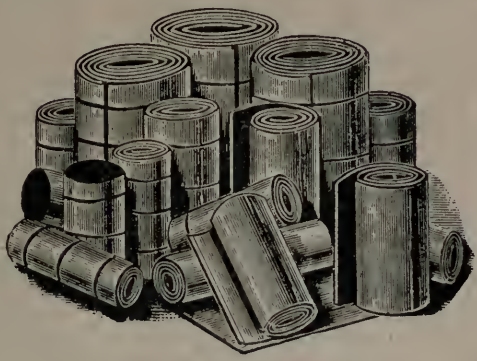
There is no service required of Sheet Packing but what our Magnet will meet. No engine-room, locomotive, steamboat or machine shop should be without a complete equipment of every thickness for any emergency that may arise.

Full rolls contain from 200 to 300 pounds.

Price, per pound.....$1.00

Discount to dealers.

# Cloth Insertion Packing



No. 14

## Plain, C.O.S. and C.B.S.

Used by engineers and steam users in general. Our best grades combine smoothness of finish, strength of cloth insertion, pliability and durability. These qualities, in a greater or less degree, embraced in all the grades we make.

---

## Cloth Insertion

Cloth on One or Both Sides.

| Thickness | 1-Ply | 2-Ply | 3-Ply | 4-Ply |
|---|---|---|---|---|
| 1-64 inch. | $0 70 | | | |
| 1-32 " | 65 | | | |
| 1-16 " | 60 | $0 63 | $0 66 | |
| 3-32 " | 55 | 58 | 61 | |
| 1-8 " | .... | 55 | 58 | $0 61 |
| 3-16 " | ... | .... | 55 | 58 |
| 1-4 " | .... | .... | .... | 55 |

One ply of cloth to every 1-16 inch thickness. Each cloth, whether insertion or on outside, to count as one ply. Three cents per pound additional will be charged for each extra ply of cloth.

## Plumbago Packing

Our Plumbago Packing will pack any kind of air, steam or water joints. It is particularly well adapted for packing expansion or heated joints, as it does not burn or char as other packings do.

It readily conforms to any unevenness in the surfaces between which it is placed, and therefore obviates the necessity of facing joints, thus reducing the cost of construction and repairs.

By the application of either a little naphtha, rubber cement, or both, to the surfaces two pieces of Plumbago Packing can be put together, and, under pressure, will become as solid as one piece. In this way uneven joints can be made quickly, easily and economically. When this packing comes in contact with heat it becomes vulcanized and of a metallic nature, so that oil does not have the injurious effect upon it that it does upon ordinary rubber packings.

Plumbago Packing, with wire or duck insertion, made to order.

Scraps of Plumbago Packing of our manufacture, without wire or duck insertion, may be returned to us, and a fair price will be allowed for them.

| | |
|---|---|
| Pure, per lb. ..... ..... | $0 70 |
| With Wire Insertion, per lb..... | 80 |
| With Duck Insertion, per lb..... | 90 |

## Directions for Using Plumbago Packing

Screw the nuts or bolts up tight when cold; let steam on gradually; screw nuts up snug, and if the joint is tight do not turn up any more, as the packing is now soft. If, in a day or two after applying the packing, there are signs of leakage, screw up nuts when cold. The joint will then be tight, as this packing hardens with use.

The above instructions should always be followed. If the nuts are turned up too much at first, while the packing is soft, it will ooze out, and thus destroy its efficiency.

Cut bolt holes half the diameter of the bolts and swell the packing over them. This will fill up the space between the flanges and the bolts, and will thus preserve the bolts and flanges from oxidation. In order to break joints, chalk well on one side. This will prevent adhesion.

The use of white or red lead, tallow or any other substance in connection with this packing is unnecessary, and only serves to impair its efficiency

# Pure Sheet and Valve Gum

No. 16

Made in sheets from 1-32-inch to any thickness, width up to 36 inches, length 20 feet.

List Price..... .....$1 40 per pound

---

# Black Snake Piston Rod Packing

This is a round packing made in spiral form, with a red rubber core wrapped in specially prepared duck and a high grade of plumbago. It will hold over 430 pounds of superheated steam, and is conceded by representative engineers to have no equal. It is made from a compound that will not harden from any degree of heat.

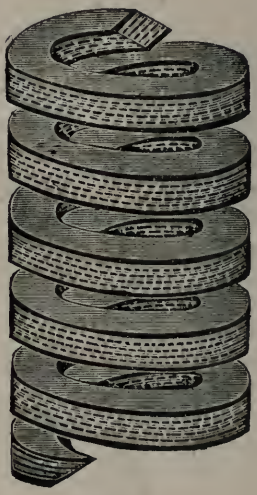
Specially adapted for marine work.

When applying this packing allow for expansion.

Our label is on every box.

List price .....90 cents per pound

# Durham Spiral Piston and Valve Rod Packing



No. 18

Made in all regular sizes from ¼ to 1½ inches.

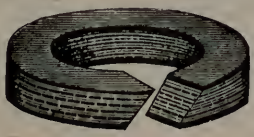
Put up neatly in boxes and labelled. Each box contains about 12 feet. We furnish full boxes only.

This packing is spiralled and therefore already shaped to the rod and box. This avoids the annoyance of bending to fit in place.

This packing affords the least friction on the rod. It is made of the best material and thoroughly lubricated.

List Price.....$1 20 per pound

## Durham Elastic Ring Packing



No. 19

These rings are made to order to any size required. They are made to fit perfectly around the piston rod and fill the stuffing box.

List price.....$1.20 per pound

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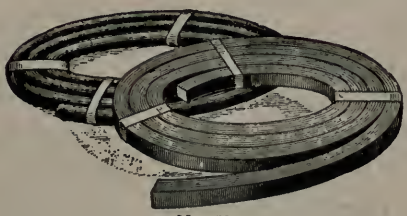
## Pure Round and Square Packing

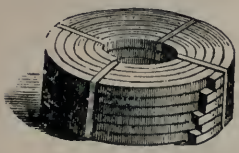


No. 20

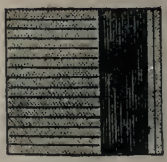
For hydraulic work bulk-head doors, coal ports, dead lights and other marine purposes.

List price.....$1.50 per pound.

## Square Piston Packing—"Rubber Back"



No. 21—Coils of 20 feet each

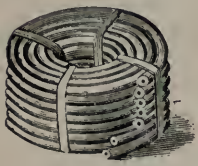


No. 22—End view

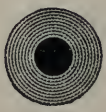
Made in all sizes from ¼-inch to 2 inches, and in lengths of 20 feet.

Price.....$1.00 per pound

## "Tuck's Round" Piston Packing



No. 23—
Coils of 12 feet each



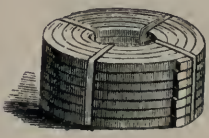
No. 24—With Black
Rubber Core

No. 25
Without Core

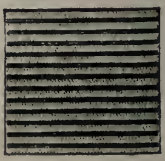
Made in all sizes from ¼-inch to 2 inches, and in lengths of 12 feet.

Price.....85 cents per pound

## "Tuck's Square" Piston Packing



No. 26—Coils of 12 feet each

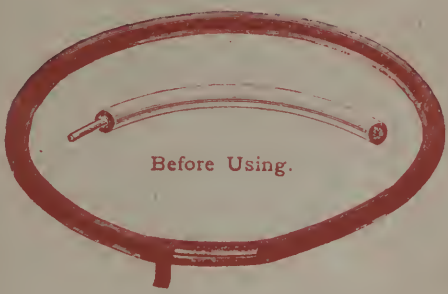


No. 27—End view

Made in all sizes from ¼-inch to 2 inches, and in lengths of 12 feet

Price.....85 cents per pound

## Magnet High-Pressure Gasket Tubing




No. 28

The Magnet Tubing for gaskets is made from the celebrated Magnet compound. It is not affected by any degree of steam heat. It will make a tight joint no matter how rough the surface may be, and it will not blow out.

One of the principal advantages of this tubing is that it can be cut to any length desired in order to fit any size of manhole or handhole, plate or pipe flange. The cut ends are joined together with our rubber core, thus making a *continuous gasket.*

It is put up in convenient boxes with rubber core and tape.

With two or three sizes of tubing on hand you are ready at any time to make a gasket to fit any joint. The same gasket can be used several times.

## Magnet High-Pressure Gasket Tubing—Continued

No. 29

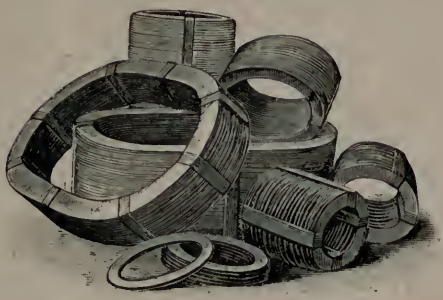
### Directions For Use

Place the tubing around the plate or flange about 3-16 of an inch from the inside shoulder. Cut the ends either square or on the bias, as may be convenient. Insert a piece of our rubber core, about half its length, in each end of the tubing; draw the ends tightly together, and wind the joint diagonally with our Electric frictioned tape.

Made in sizes $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and 1 inch.

List price.....$1.50 per pound.

## Cloth Insertion Gaskets



No. 30

Regular sizes and thicknesses, $1.00 per lb.
Thin sizes (1-16 or less)..... 1.25 "

There is one ply of cloth to every 1-16-inch thickness.

Five cents per pound additional will be charged for each extra ply of cloth.

The cloth, whether used as an insertion or on the outside, counts as one ply.

## Mixed and Fibrous Gaskets and Rings

Regular shapes and sizes.

1-8 inch or less in thickness, per pound, $0.90
5-32 inch and upwards..... " 80

## Pure Gum Gaskets and Rings

Regular shapes and sizes.

Per pound..... .....$1.50

Unusual sizes and thicknesses made to order at special prices.

# Draught Tubing

| Size | Price |
|---|---|
| $\frac{1}{8}$ inch | 7c. a foot |
| $\frac{3}{16}$ " | 9c. a foot |
| $\frac{1}{4}$ " | 10c. a foot |
| $\frac{5}{16}$ " | 12c. a foot |
| $\frac{3}{8}$ " | 14c. a foot |

PART IV

# MOULDED GOODS

THE DURHAM RUBBER CO.
LIMITED
BOWMANVILLE, ONTARIO, CANADA

# Moulded Rubber Goods

WE have unsurpassed facilities for promptly executing orders for Moulded Rubber Goods. The increasing demand for these goods by manufacturers generally has necessitated the addition of special labor-saving machines for cutting up the stock, shaping machines, machines for trimming the goods after they are vulcanized. the employment of expert work-people, and the creation of a department devoted exclusively to the purpose. To execute this work most advantageously it is necessary for us to fully understand the purpose for which the goods are to be used ; then we make the subject a special study, and our experience enables us often to offer valuable hints and suggestions to our customers. The quality and kind of rubber to be used in moulded goods, whether hard or soft, must be determined by the character of the product, which is variable, according to the use intended. The amount of pressure and the required elasticity should be carefully studied. Where this information has been imparted we guarantee our product to be uniform in quality and free from defects.

We carry a large assortment of **Stock Moulds** for the use of our customers, from which we produce goods for the general trade. The list is a large one, and very frequently we are enabled to fill orders without the expense and delay incident to the manufacture of new moulds.

When in want of moulded goods of any description it will pay you to write us fully regarding the same.

# Pump Valves

No. 31

In selecting a pump valve for a given service the following conditions should be carefully considered:

First—The amount of pressure.
Second—The temperature of the water.
Third—The presence or absence of grit in the water.
Fourth—The presence or absence of oil in the water.

The following list enumerates the different kinds of pump valves made by us. The composition of each is made to best meet the requirements of its use. If you are unable to select from this list a valve just suited to your needs kindly write us, giving full particulars, and we will make you just what you want:

No. 220—Cold water, light work.
No. 82—Valve resisting action of oils and acids.
No. 55—Cold water, heavy work.
No. 31—Cold water, marine pump.
No. 2371—Semi-hard for steam feed pumps.
No. 250—Hot water, light work.
No. 237—Red, hot water, heavy.

## Pump Valves—Continued

No. 29—Hot Water, heavy work.

No. 84—Condenser, medium grade.

No. 248—No. 1, condenser valve.

No. 102—High Grade, cold water.

No. 11—Soft, hot water.

Valves for Special Pumps used in mines, steamships, iron furnaces, etc., made to order. Please specify the work they have to do, and we will furnish the proper article for the work.

When ordering state:

First—Dimensions.

Second—Size of hole (if any).

Third—Thickness.

Fourth—Round or square, if size admits of any doubt.

Fifth—For use in hot or cold water.

Sixth—Soft or medium or hard.

Seventh—Quote our compound number if possible.

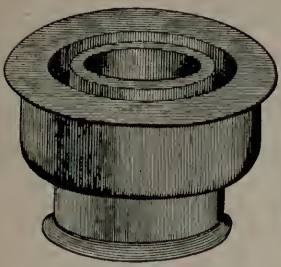
With curved guards soft valves should always be used.

The efficiency of all pumps is largely dependent upon the valves. We make a specialty of valves for marine service, Bessemer Blowing Engines, and for pumps of all kinds used in mines, iron furnaces, steel works, industrial establishments, etc.

### HARD RUBBER VALVE DISCS.

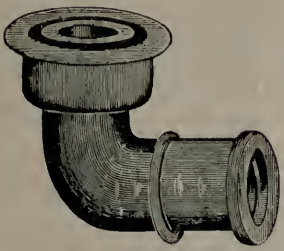
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Size | ¼ | price | $0 03 | Size | 3½ | price | $0 45 |
| " | ⅜ | " | 04 | " | 4 | " | 52 |
| " | ½ | " | 04 | " | 4½ | " | 60 |
| " | ¾ | " | 05 | " | 5 | " | 68 |
| " | 1 | " | 06 | " | 6 | " | 90 |
| " | 1¼ | " | 09 | " | 7 | " | 98 |
| " | 1½ | " | 12 | " | 8 | " | 1 20 |
| " | 2 | " | 18 | " | 9 | " | 1 60 |
| " | 2½ | " | 24 | " | 10 | " | 1 75 |
| " | 3 | " | 33 | | | | |

# Water Closet Connections

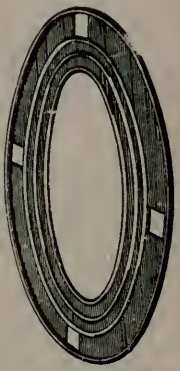


No. 32—Twyford's Cup.

No. 33—Conical.



No. 34—Elbow Connection.



No. 35—Floor Flange.

| | | | |
|---|---|---|---|
| Twyford's Cup, | $1\frac{1}{4}$ inch | per doz. | $5 50 |
| " | $1\frac{1}{2}$ " | " | 6 00 |
| Elbow Connections, | $1\frac{1}{4}$ inch | " | 9 00 |
| Conical " | $1\frac{1}{4}$ " | " | 3 00 |
| " " | $1\frac{1}{2}$ " | " | 3 60 |
| " " | 2 " | " | 4 80 |
| Floor Flanges (2 sizes) | | " | 3 00 |

## Force Cups

No. 36

For clearing discharge pipes; of wash bowls, bath tubs, etc.

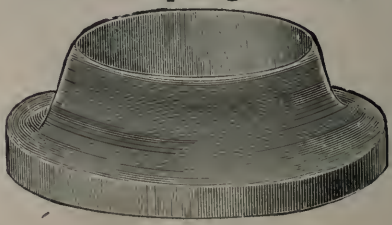
| | | |
|---|---|---|
| No. 1 | 3 | inches diameter. |
| " 2 | 3½ | " |
| " 3 | 4½ | " |

### Directions

Place the cup directly over the vent and allow the water to flow in to a depth of three or four inches; force the handle up and down three or four times; this will usually clear any pipe.

| | | |
|---|---|---|
| No. 1 | $ 9 00 | per dozen. |
| " 2. | 12 00 | " |
| " 3.. | 18 00 | " |

## Sink Coupling Washer



No. 37

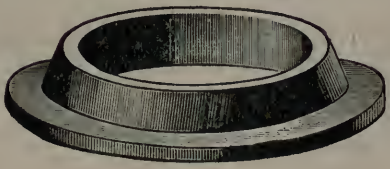
Per dozen... .....$2 00

## Basin Plugs

No. 38

| | | |
|---|---|---|
| 1 inch | $2 50 | per dozen |
| $1\frac{1}{8}$ " | 2 75 | " |
| $1\frac{1}{4}$ " | 3 00 | " |
| $1\frac{3}{8}$ " | 3 50 | " |
| $1\frac{1}{2}$ " | 4 00 | " |

## Basin Washers



No. 39

Per dozen.....$1 00

## Syphon Valve Washers

No. 40

Per dozen.....$1 50

## Guage Glass Washers

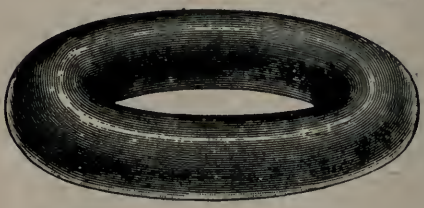
No. 41

No. 42

| Size of Glass | ⅜-in. | ½-in. | ⅝-in. | ¾-in. | ⅞-in. |
|---|---|---|---|---|---|
| Square, per gross. | $3 00 | $3 00 | $3 50 | $4 50 | $5 00 |
| Round " | 4 00 | 4 00 | 4 50 | 5 00 | 5 50 |

All above sizes.....$2 50 per pound.

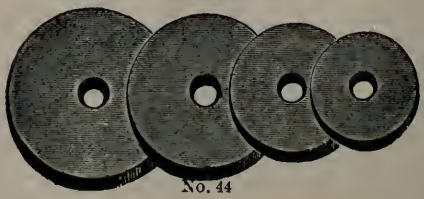
## Plunger Rings—Various Sizes



No. 43

Per pound.....$2 50

## Bibb Washers

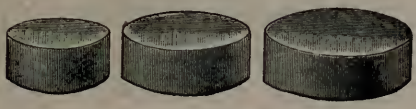


No. 44

Extra quality, to stand both hot and cold water.

| | | |
|---|---|---|
| ⅜-inch..... | $1 00 | per hundred |
| ½ " ..... | 1 20 | " |
| ⅝ " ..... | 1 50 | " |
| ¾ " ..... | 1 80 | " |
| 1 " ..... | 2 00 | " |

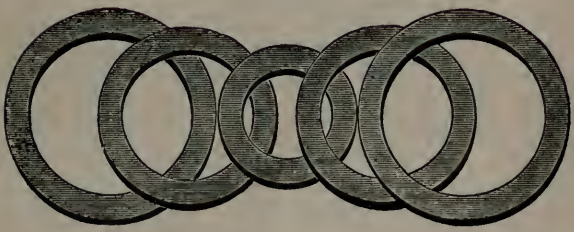
## Bibb Discs



No. 45

| | | |
|---|---|---|
| 3/8-inch | $2.50 | per hundred |
| 1/2 " | 2.50 | " |
| 5/8 " | 2.75 | " |
| 3/4 " | 3.00 | " |

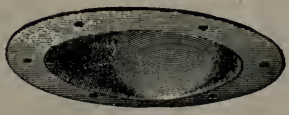
## Hose Washers



No. 46

All sizes.....$2.50 per pound

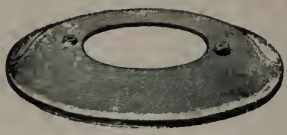
## High-Pressure Diaphragm



No. 47

For damper and steam regulator.
Prices on application.

## Pump Service Diaphragm



No. 48

Used in connection with diaphragms, sewer and ship pumps.

Price on application.

---

## Fuller Faucet Balls

¾ in. ⅝ in. ½ in.

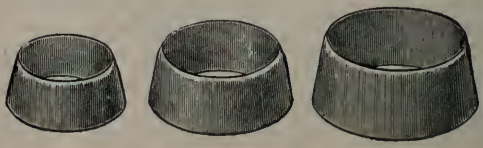
No. 49

Made in Black or Red.

Per pound..... $2.50

---

## Basin and Bath Tub Waste Washers



No. 50

| | | |
|---|---|---|
| 1 inch | $3.50 | per hundred |
| 1¼ " | 4.00 | " |
| 1½ " | 4.50 | " |

## Slip Joint Washers

No. 51

All sizes..... .....$2.50 per pound

In ordering give inside and outside diameter and thickness.

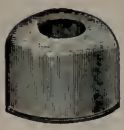
---

## Rubber Corks

No. 52

| Size | Length, Inches | Diameter, Small End, Inches | Diameter, Large End, Inches | List Price, Per Gross |
|---|---|---|---|---|
| 0 | 9-16 | 9-32 | 11-32 | $0 50 |
| 1 | 9-16 | 5-16 | 7-16 | 50 |
| 2 | 11-16 | 3-8 | 1-2 | 65 |
| 3 | 3-4 | 7-16 | 9-16 | 80 |
| 4 | 13-16 | 1-2 | 5-8 | 1 30 |
| 5 | 7-8 | 1-2 | 11-16 | 1 50 |
| 6 | 15-16 | 9-16 | 3-4 | 1 90 |
| 7 | 1 | 10-16 | 13-16 | 2 65 |
| 8 | 1 1-6 | 11-16 | 7-8 | 3 00 |
| 9 | 1 1-8 | 3-4 | 15-16 | 3 60 |
| 10 | 1 1-4 | 13-16 | 1 | 4 00 |

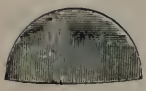
## Plain Bumpers



1

2

3



4

5

6

No. 53

| | | | |
|---|---|---|---|
| No. 1—With recess for screw.. | $10 00 | per thousand |
| " 2 " " .. | 8 50 | " |
| " 3—For flush pipe strap.... | 9 50 | " |
| " 4 " glueing on..... | 9 00 | " |
| " 5 " " ..... | 8 00 | " |
| " 6 " " (red).... | 30 00 | " |

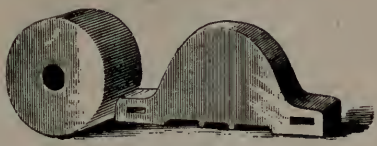
## Screw and Tack Bumpers

No. 54

No. 55

| | | |
|---|---|---|
| No. 1—Small Tack Bumper.... | $5 00 | per thousand |
| " 2—Medium " " .... | 6 00 | " |
| " 3—Large " " .... | 7 50 | " |
| " 4—Small Screw " ... | 8 00 | " |
| " 5—Medium " " ... | 12 00 | " |
| " 6—Large " " .... | 15 00 | " |

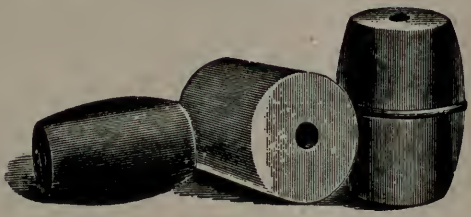
## Rubber Springs



No. 56

Wagon Spring or Bumpers.

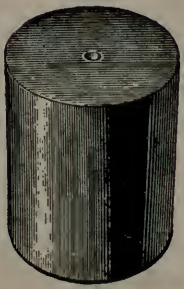
Flat, per pound .....35 cents
Round, per pound..... ..... ....60 "



No. 57

Pure Springs, all of kinds of Mechanical Purposes.
Price, per pound.....$1 50

## Channeling Machine Springs



No 58.

No 59.

Made solid with ½-in. to 1-in. hole. Any shape or size.
Price, per pound .....$1 50

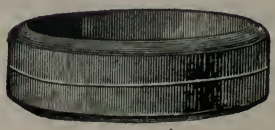
## Typewriter Feet

No. 60

List price.....$2 00 per pound

---

## Truck Wheel Bands



No. 61

List price.....$2 00 per pound

PART V

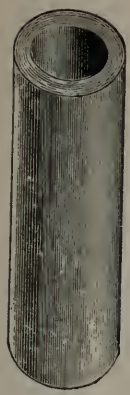
# RUBBER TUBING

THE DURHAM RUBBER CO.
LIMITED
BOWMANVILLE, ONTARIO, CANADA

# Rubber Tubing

THE numerous purposes for which rubber tubing is used are constantly increasing, and its manufacture has become a large and important branch of the rubber industry. Formerly all tubing was handmade or drawn; now comparatively little, and only the purest, is so made, all other kinds being made by machine.

We make tubing of all kinds, sizes and grades, and for all purposes, and it is guaranteed to render good service.



No. 63

## Pure White Tubing

### Plain or Corrugated

List prices per foot:

| Int. diam. | Per ft. |
|---|---|
| 1/8 inch | $0 08 |
| 3/16 " | 12 |
| 1/4 " | 16 |
| 5/16 " | 18 |
| 3/8 " | 20 |
| 1/2 " | 25 |
| 5/8 " | 30 |
| 3/4 " | 35 |
| 1 " | 45 |

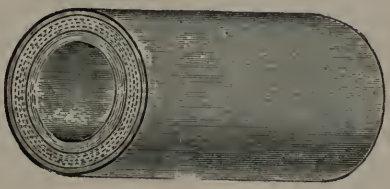
Made in any thickness of wall.

No. 64

List price.....$1 50 per pound

## Cloth Insertion Tubing

### Manufactured in Lengths of 12 Feet



No. 65

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1-8 in. | diam. | per ft. | $0 10 | 1-2 in. | diam. | per ft. | $0 28 |
| 3-16 | " | " | 14 | 5-8 | " | " | 33 |
| 1-4 | " | " | 18 | 3-4 | " | " | 38 |
| 5-16 | " | " | 20 | 1 | " | " | 50 |
| 3-8 | " | " | 23 | | | | |

Made white or red

## Pure Gum Tubing

Medium Weight

Sizes, 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2

Price, $5.00 per pound

---

## Beer Tubing

For Brewers' and Bottlers' Use

| Int. Diam. | Per Ft. | Int. Diam. | Per Ft. |
|---|---|---|---|
| 1/4 inch | $0 18 | 5/8 inch | $0 33 |
| 5/16 " | 20 | 3/4 " | 38 |
| 3/8 " | 23 | 1 " | 50 |
| 1/2 " | 28 | | |

---

## Bicycle Pump Tubing

⅛ inch inside diameter....10cts. per foot

We also manufacture Gas Tubing, Shaft Tubing, Elevator Tubing, Red Bottling Tubing, Soda Water Tubing, Acid Tubing.

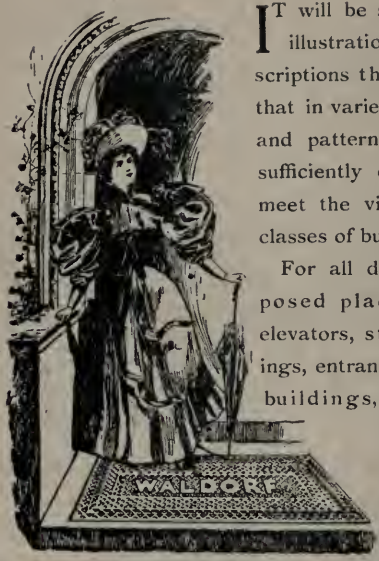
Prices on Application.

PART VI

# MATTING

No 6

THE DURHAM RUBBER CO.
LIMITED
BOWMANVILLE, ONTARIO, CANADA



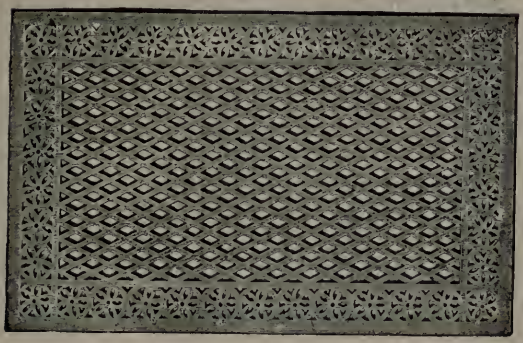
No. 67

IT will be seen by the illustrations and descriptions that follow, that in variety of design and pattern our line is sufficiently complete to meet the views of all classes of buyers.

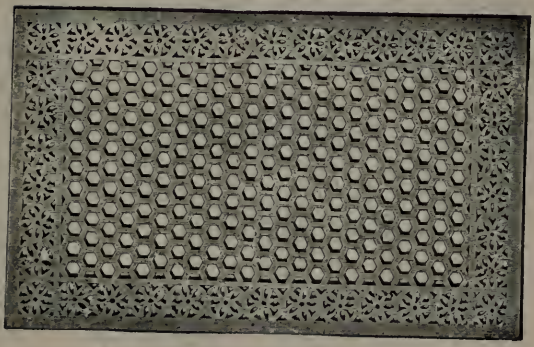
For all damp or exposed places, or for elevators, stairs, landings, entrances to public buildings, churches, hotels and theatres, where the wear is unusually severe, the rubber mat has no equal. It deadens sound, is neat and attractive, and can be removed and thoroughly washed and cleaned.

As a covering for iron and stone stairways it is invaluable, providing a sure footing, especially on stairways exposed to ice and snow.

# Perforated Mats

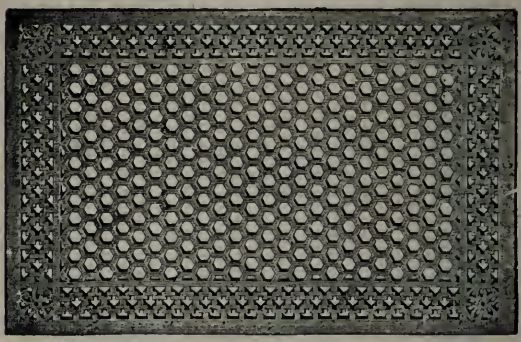


Style No. 1

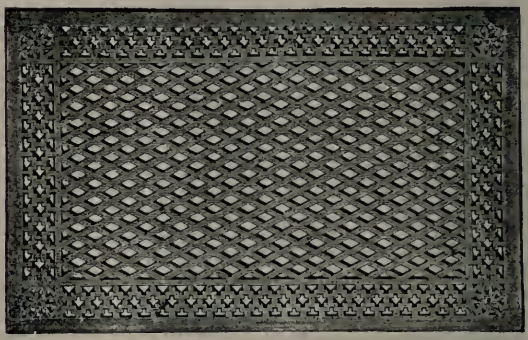


Style No. 2

## Perforated Mats—Continued



**Style No. 3**



**Style No. 4**

Price, per pound .....$1 25

Letters, 10 cents each extra, net.

One square foot, $\frac{3}{16}$-inch thick, weighs about $1\frac{1}{4}$ pounds.

# Moulded Mats

**Style A**

Size 19 x 36 inches

Price ..... $2 00 each

**Style B**

Size 20 x 36 inches

Price ..... $2 00 each

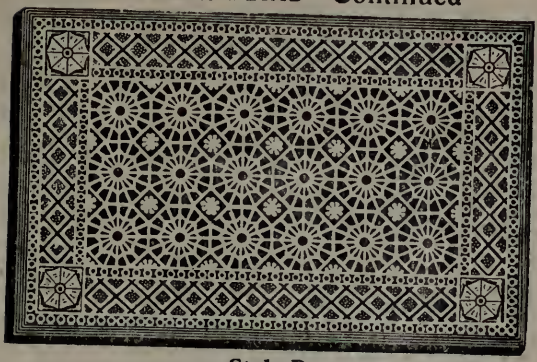
## Moulded Mats—Continued

**Style C**

Made in the following sizes only :

| | | |
|---|---|---|
| 19 x 36. | Price..... | $2 50 each |
| 21 x 36. | " ..... | 3 25 " |

## Moulded Mats—Continued

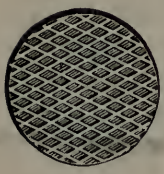


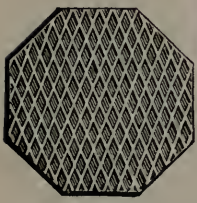
**Style D**

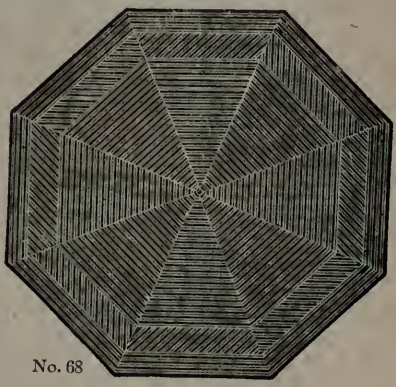
Made in the following sizes only :

18 x 36, price ..... $2 50
21 x 41, " ..... 3 25

## Pitcher Mats







No. 68

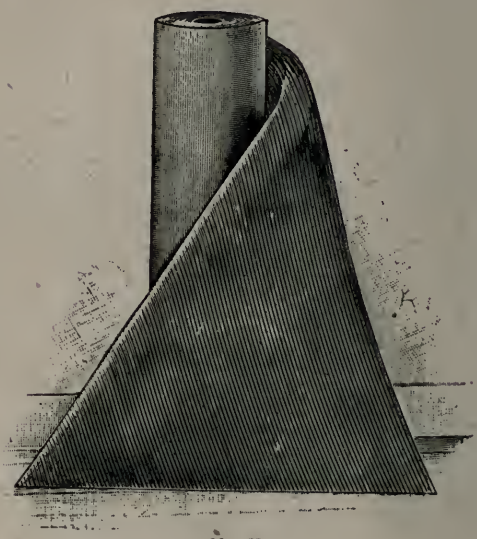
### Corrugated Pattern

9 inches diameter, black, round.....$10 00 per doz.
9 " " " octagon... 11 00 "

### Diamond Cell Pattern

8½ inches diameter, round.....$10 00 per doz.
9½ " " octagon..... 12 00 "

# Corrugated Matting



No. 69

This matting is made one yard wide and in lengths of about thirty yards.

Price.....50 cts. per pound

| | | | | | | |
|---|---|---|---|---|---|---|
| $\frac{3}{32}$-inch thick | weighs | about | | $7\frac{1}{2}$ lbs. | per | square yard |
| $\frac{1}{8}$ | " | " | " | $9\frac{1}{2}$ | " | " |
| $\frac{3}{16}$ | " | " | " | $14\frac{1}{2}$ | " | " |
| $\frac{1}{4}$ | " | " | " | $18\frac{1}{2}$ | " | " |

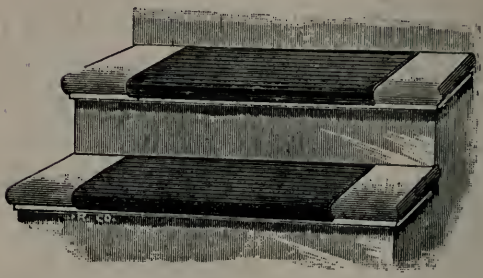
## Corrugated Treads—Special Shapes

No. 70

Cut to order, any size desired, for halls or stairs, or to fit around billard table, barbers' chairs, or to prevent noise or slipping.

Price.....90 cts. per pound

## Corrugated Stair Treads



No. 71

These treads are cut to order in any desired size or shape. The quality is the same as the matting above described.

Price.....90 cts. per pound.

---

## Rubber Flooring—Plain

Made in rolls one yard wide and about twenty-five yards long.

Price.....50 cts. per pound

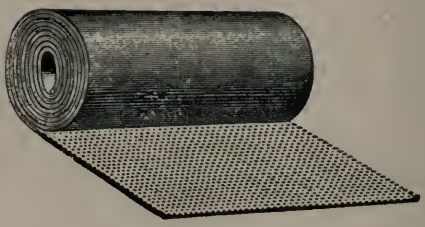
This flooring is very serviceable for halls and public buildings, making a clean and durable covering for all floors.

PART VII

# RUBBER SOLING, Etc.

THE DURHAM RUBBER CO.
LIMITED
BOWMANVILLE, ONTARIO, CANADA

# Soling



No. 72

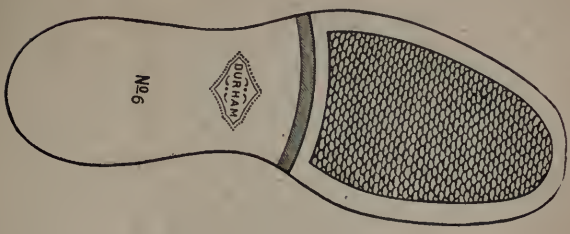
Made in sheets, any thickness.

We make this soling black or red, in rolls about thirty-six inches wide. It is the best made goods in the market, and is a quick and ready seller. We manufacture great quantities of it.

Prices from $1.00 to $2.00 per pound, according to quality.

We also manufacture Rubber Soling with plain or corrugated surface and any thickness.

## Durham Moulded Sole




No. 73

Made in black and red, in all regular sizes.
List price.....$15.00 per dozen pair.

---

## Durham Rubber Heels

No. 74

Made in red and black, in all regular sizes for men and women.
List price.....$6.00 per dozen pair.

PART VIII

# SUNDRIES

THE DURHAM RUBBER CO.
LIMITED
BOWMANVILLE, ONTARIO, CANADA

## Fruit Jar Rings—Superior Quality

No. 75

Made to fit Pint and Quart Jars

Quarts .....$1 40 per gross
Pints..... 1 00 "

## Electric Tape

No. 76

White..... .....$1 00 per pound
Black..... 1 00 "

Put up in half-pound rolls, wrapped in tin foil.

# Wringer Rolls

No. 77

All Wringer Rolls manufactured by us are of uniform temper, elasticity and finish. They are made for hard, severe service, and stand the test. When ordering please specify

Length of roll,
Diameter of roll,
Diameter of hole.

The following sizes of Solid White Rolls are kept in stock:

| Length. | Outside Diameter | Size of Hole. |
|---|---|---|
| 10-inch | $1\frac{1}{2}$-inch | $\frac{1}{2}$-inch |
| 10 " | $1\frac{5}{8}$ " | $\frac{1}{2}$ " |
| 10 " | $1\frac{5}{8}$ " | $\frac{5}{8}$ " |
| 10 " | $1\frac{3}{4}$ " | $\frac{5}{8}$ " |
| 11 " | $1\frac{1}{2}$ " | $\frac{1}{2}$ " |
| 11 " | $1\frac{1}{2}$ " | $\frac{5}{8}$ " |
| 11 " | $1\frac{5}{8}$ " | $\frac{1}{2}$ " |
| 11 " | $1\frac{5}{8}$ " | $\frac{5}{8}$ " |
| 11 " | $1\frac{3}{4}$ " | $\frac{1}{2}$ " |
| 11 " | $1\frac{3}{4}$ " | $\frac{5}{8}$ " |
| 12 " | $1\frac{5}{8}$ " | $\frac{1}{2}$ " |
| 12 " | $1\frac{5}{8}$ " | $\frac{5}{8}$ " |
| 12 " | $1\frac{3}{4}$ " | $\frac{1}{2}$ " |
| 12 " | $1\frac{3}{4}$ " | $\frac{5}{8}$ " |

Price .....75 cts. per pound

Other grades and sizes made to order on short notice. Wringer Rolls vulcanized on shaft.

No. 78

## Grain Drill Tubes

Prices on application.

Special prices quoted for contract lots.

---

## Squillgee Rubbers

For removing water from decks, floors and plate glass.

Made in all lengths and thicknesses.

No. 79

## Rubber Covered Rolls

Parties ordering rollers will please state the use for which they are intended; whether they will run in hot or cold liquids, the diameter they are to furnish, and consistence of covering desired. All our rubber coverings are specially prepared for the work they are intended to perform.

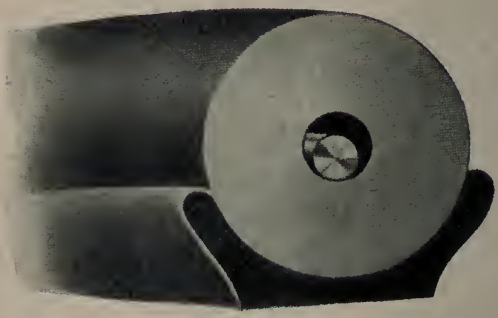
Price..... .....$2 00 per pound.

PART IX

# CARRIAGE AND BICYCLE TIRES, AND BICYCLE TIRE SUNDRIES

THE DURHAM RUBBER CO.
LIMITED
BOWMANVILLE, ONTARIO, CANADA

# Solid Rubber and Cushion Tires for Carriages



## Sizes

Solid $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$, $1\frac{3}{4}$, and 2 inches.
Cushion 1, $1\frac{1}{8}$, $1\frac{1}{4}$.

Prices on Application.

# Solid Rubber Carriage and Automobile Tires

Our tires are the result of long and careful experiment and study, and, without doubt, they are second to none in any point.

The quality of the material used is of the very best, their resiliency is all that can be desired for ease of riding, without lessening their wearing qualities, and the method of attaching is such as to render creeping and springing out of channel impossible.

## Bicycle Tires

No. 80

Prices and particulars of tires on application. Our quality, combined with price, is unequalled.

### Inner Tubes

| | | |
|---|---|---|
| 1st quality inner tubes..... | $15 00 | per doz. |
| 2nd " " ..... | 12 00 | " |
| 3rd " " ..... | 10 00 | " |

---

### Sundries

| | | |
|---|---|---|
| Mushrooms ..... | $ 3 50 | per hundred |
| Universal metal valves.. | 10 50 | " |
| Valves, complete ..... | 14 00 | " |
| Metal shoe valves..... | 12 50 | " |
| Patching rubber ..... | 3 00 | per pound |
| Tire tape, in 2-oz. rolls | 60 | " |

# INDEX.

PAGE

Automobile Tires—Solid Rubber..... 91

Basin Plugs..... 55
Basin Washers.....55
Bath Tub Waste Washers..... 58
Beer Tubing..... 66
Belting—Rubber..... 5
About..... 8
Confidence and samples..... 7
Elevator..... 15
Endless..... 18
Information..... 9
Lacing..... 13
Directions for Spacing Holes for.. 13
Other Methods of..... 13
Leather Compared with Rubber... 8
Our Brands..... 6
Durham, Seamless..... 16
Elephant..... 17
Black Diamond..... 17
Red Cross Brand..... 17
Price List—Rubber..... 19
Putting on..... 11
Samples..... 7
Splicing..... 11
Back Splice..... 12
Butt Splice..... 11
Lace Splice..... 12
Lap Splice..... 12
Thresher..... 18
To Find Length of..... 10
Measure in Rolls..... 10
Prevent Slipping..... 9
Bibb Washers..... 56
Discs..... 57
Bicycle Tires and Tire Sundries..... 89
Bumpers—Plain..... 60
Screw and Tack..... 60
Wagon..... 61

INDEX—*Continued.*

PAGE
Car Springs ..... 61
Carriage Tires—Solid Rubber..... 89
Description ..... 91
Closet Connections—Conical..... 53
Elbow..... 53
"Twyford's" Cup... 53
Concerning Goods Returned..... 4
Corks—Rubber ..... 59
Corrugated Matting.....74-76
Stair Treads ..... 76

Diaphragms—For Damper Regulators..... 57
For Pump Service..... 58
Draught Tubing..... 48

Elbow Connections ..... 53
Electric Tape ..... 84

Floor Flanges ..... 53
Flooring Rubber—Plain..... 76
Force Cups ..... 54
Fruit Jar Rings..... 84
Fuller Faucet Balls..... 58

Garden Hose..... 31
Gas Tubing ..... 66
Gaskets and Rings..... 47
Cloth Insertion..... 47
Mixed and Fibrous..... 47
Pure Gum..... 47
"Magnet" High Pressure.....45-46
Gauge Glass Washers..... 56
Grain Drill Tubes..... 86

Heels—Moulded Rubber ..... 81
Hose..... 20
Air-Brake .....22-23
Air Drills..... 28
Brands manufactured ..... 21
Brewers'..... 26
Carts ..... 34
Couplings ..... 32
Fire Hose..... 32
Garden—Cotton ..... 31
Rubber..... 27

INDEX—*Continued.*

PAGE

Hose—Hydraulic ..... 26
Linen, unlined ..... 32
Mill Hose ..... 31
Nozzles ..... 32
Oil ..... 26
Petroleum ..... 26
Pneumatic Tool ..... 28
Racks ..... 33
Steam ..... 26
Marline Wound ..... 26
Wire Wound ..... 29
Submarine ..... 27
Suction ..... 30
Tanners' ..... 26
Water ..... 27
Wire Winding Hose, various ..... 29
Hose Washers ..... 57

Inner Tubes—Bicycle ..... 91

Jar Rings—Fruit ..... 84

Magnet Gasket Tubing ..... 45-46
Sheet Packing ..... 38
Mats—Moulded ..... 71-72
Perforated ..... 69-70
Pitcher ..... 73
And Matting ..... 74
Matting—Corrugated ..... 74-76
Moulded Goods—Miscellaneous ..... 49
About ..... 50

Packing ..... 35
"Blue Diamond" Sheet ..... 36
Cloth Insertion ..... 39
Elastic Ring ..... 43
Piston ..... 42
"Black Snake" Spiral ..... 41
"Durham" Spiral ..... 42
Square "Rubber Back" ..... 44
"Tucks," Round ..... 44
"Tucks," Square ..... 44
Plumbago Sheet ..... 40
Directions for Use ..... 40

INDEX—*Continued.*

PAGE

Packing—Pure Rubber Sheet..... 41
Pure Round Rubber..... 43
Pure Square Rubber ..... 43
Spiral..... 42
"Turbine" Asbestos, sheet..... 37
"Magnet" Sheet ..... 38
"Magnet" Gasket .....45-46
Wire Insertion..... 36
Piston Packings—Miscellaneous ..... 42
Plugs—Basin..... 55
Plumbers' Supplies .....53-58
Plumbago Packing—Plain Sheet..... 40
Wire Insertion—Duck Insertion 40
Plunger Rings..... 56
Prop Blocks..... 61
Pump Valves.....51-52
Pure Packing—Round and Square..... 43
Pure Sheet Packing..... 41
Pure White Tubing..... 65

Rings—Plunger..... 56
Rolls—Rubber Covered ..... 87
Wringer..... 85
Rubber Heels—Moulded ..... 81
Soles—Moulded ..... 81
Soling..... 80

Sink Coupling Washers..... 54
Slip Joint Washers..... 59
Soles—Moulded Rubber..... 80
Soling Rubber.....79-80
Solid Rubber Carriage Tires..... 90
Springs—Car..... 61
Channelling Machine..... 61
Pure Rubber ..... 61
Wagon..... 61
Squilgee Rubbers ..... 86
Stair Treads—Corrugated ..... 76
Sheet Packing—See Magnet..... 38
Syphon Valve Washers..... 55

Tape—Bicycle..... 84
Electric..... 84
Thresher Belts..... 18

INDEX—*Continued.*

PAGE
Tires—Automobile..... 91
Carriage..... 90
Bicycle..... 91
Truck Wheel ..... 62
Tire Sundries—Bicycle..... 91
To the Trade..... 3
Truck Wheel Bands..... 62
Tubes, Inner for bicycles..... 91
Tubing ..... 65
Acid..... 66
Beer..... 66
Bicycle Pump ..... 66
Cloth Insertion..... 65
Draught..... 48
Elevator ..... 66
Gas..... 66
Pure White..... 65
Red Bottling..... 66
Shaft..... 66
Soda Water..... 66
Typewriter Feet..... 62

Valve Gum—Sheet ..... 41
Valves—Pump .....50-52
Grades..... 51

Wagon Springs..... 61
Washers—Basin ..... 55
Bath Tub Waste..... 58
Bibb ..... 56
Gauge Glass ..... 56
Hose..... 57
Sink Coupling ..... 54
Slip Joint ..... 59
Syphon..... 55
Wringer Rolls..... 85