ESTABLISHED 1885

RICHARDS & KELLY MFG. CO.

309-311 West 23d Street, CHICAGO

CATALOG No. 12

SIDEWALK LIGHTS

FLOOR LIGHTS, SKY LIGHTS

COAL-HOLE COVERS AND

SIDEWALK DOORS
To avoid delay when sending orders or inquiries, give catalog and page numbers. DESTROY FORMER CATALOGS
Catalogue Number Twelve

Sidewalk Lights, Floor Lights, Sky Lights
Coal Hole Covers
Thimbles, Grates
Rings, Sidewalk Doors

309-311 West Twenty-third Street
CHICAGO, ILLINOIS
CAST IRON COAL-HOLE COVERS.

RICHARDS & KELLY MFG. CO.

CHICAGO, ILLINOIS

Cut of 20 inch Cover.

PRICE LIST.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 inch</td>
<td>$2.00</td>
</tr>
<tr>
<td>18 inch</td>
<td>$2.50</td>
</tr>
<tr>
<td>20 inch</td>
<td>$3.00</td>
</tr>
<tr>
<td>24 inch</td>
<td>$4.50</td>
</tr>
</tbody>
</table>

Fastening bar and thumb screw, $0.50

Kept in Stock.

For Rings for above covers, see page 10
For Thimbles for above covers, see page 11
IRON COAL-HOLE LIGHTS.

Cut of 20 inch Light.

PRICE LIST.

16 inch diameter, 6 glasses, - - - - $2.50
18 " 9 " - - - - 3.00
20 " 12 " - - - - 3.50
24 " 12 " - - - - 5.00
Fastening Bar and Thumb Screw, - - - - 5.00

Kept in Stock.

For Rings for above covers, see page 10
For Thimbles for above covers, see page 11
CONCRETE COAL-HOLE LIGHTS.

Price List.

18 inch diameter, 7 glasses, - - - - $3.50
20 " " 13 " - - - - 4.00
24 " " 13 " - - - - 5.50
Fastening Bar and Thumb Screw, - - - - 50

Kept in Stock.

Cut of 20 inch Light.

For Rings for above covers, see page 12
For Thimbles for above covers, see page 13.
CONCRETE VAULT LIGHTS.

PRICE LIST.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Glasses</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 inch</td>
<td>19</td>
<td>$4.00</td>
</tr>
<tr>
<td>18 inch</td>
<td>19</td>
<td>$5.50</td>
</tr>
<tr>
<td>20 inch</td>
<td>31</td>
<td>$7.00</td>
</tr>
<tr>
<td>24 inch</td>
<td>37</td>
<td>$8.50</td>
</tr>
</tbody>
</table>

Kept in Stock.

For Rings for above Vault Lights, see page 12.
For Thimbles for above Vault Lights, see page 13.
IRON VAULT LIGHTS.

Cut of 23 inch Light.

PRICE LIST.

16 inch diameter, round, 30 glasses ........................ $3.50
18 " " " 36 " .............................................. $5.00
21 " " " 54 " .............................................. $6.50
23 " " " 60 " .............................................. $8.00

Kept in Stock.

For Rings for above Vault Lights, see page 12
For Thimbles for above Vault Lights, see page 13
IRON VAULT LIGHTS.

PRICE LIST.

18 inch Hexagon, 43 glasses - - - - $ 5 00
21 " " 55 " " - - - 8 00
25 " " 91 " " - - - 11 00
29 " " 133 " " - - - 15 00

Kept in Stock.

Thimbles or Rings for Hexagon Vault Lights made to order.
VENTILATING GRATE

Cut of 20 Inch Ventilating Grate

PRICE LIST

16 inch diameter, ........................................ $2.00
18 " " ........................................ 2.50
20 " " ........................................ 3.00
24 " " ........................................ 4.50
Fastening bar and thumb screw, ....................... 50

For Rings for above Grates, see page 10
For Thimbles for above Grates, see page 11
CONCRETE VENTILATING COAL-HOLE COVERS

PRICE LIST

16 inch diameter, 19 ventilators,  -   -   - $4 00
18 "    "  19 "    "    -   -   -  5 50
20 "    "  31 "    "    -   -   -  7 00
24 "    "  37 "    "    -   -   -  8 50

Kept in Stock

For Rings for above Ventilators, see page 12
For Thimbles for above Ventilators, see page 13
RINGS FOR IRON COAL-HOLE COVERS AND LIGHTS.

<table>
<thead>
<tr>
<th>Diameter (inches)</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>16</td>
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<tr>
<td>18</td>
<td>$1.75</td>
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<tr>
<td>20</td>
<td>$2.00</td>
</tr>
<tr>
<td>24</td>
<td>$2.50</td>
</tr>
</tbody>
</table>

Kept in Stock.

These Rings fit covers on pages 2 and 3.
THIMBLES FOR IRON COAL-HOLE COVERS AND LIGHTS.

PRICE LIST.

Thimbles for 16 inch Coal-Hole Cover, - - $2 25
" 18 " " " - - 2 50
" 20 " " " - - 2 75
" 24 " " " - - 4 50

Kept in Stock.

Above Thimbles are 4 inches deep.
These Thimbles fit covers on pages 2 and 3.
Deeper Thimbles made to order on short notice.
Price according to size and depth.
RINGS.

For Iron Vault Lights, Concrete Coal-Hole Lights and Concrete Vault Lights.

PRICE LIST.

<table>
<thead>
<tr>
<th>Ring for 16 inch Round Vault Light</th>
<th></th>
<th>$1 75</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot; 18 &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td></td>
<td>2 00</td>
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<tr>
<td>&quot; 20 &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td></td>
<td>2 25</td>
</tr>
<tr>
<td>&quot; 21 &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td></td>
<td>2 50</td>
</tr>
<tr>
<td>&quot; 23 &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td></td>
<td>3 00</td>
</tr>
<tr>
<td>&quot; 24 &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td></td>
<td>3 50</td>
</tr>
</tbody>
</table>

*Kept in Stock*

These Rings fit covers on pages 4, 5 and 6.
THIMBLES.
For Iron Vault Lights, Concrete Coal-Hole Lights and Concrete Vault Lights.

PRICE LIST.

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>$2.50</td>
</tr>
<tr>
<td>18</td>
<td>$3.00</td>
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<td>20</td>
<td>$3.50</td>
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<tr>
<td>23</td>
<td>$4.50</td>
</tr>
<tr>
<td>24</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

Above Thimbles are 4 inches deep. These Thimbles fit covers on pages 4, 5 and 6. Deeper Thimbles made to order on short notice. Price according to size and depth.
CISTERN TOPS AND THIMBLES.

PRICE LIST.

16 inch Cover and Thimble  -  -  -  -  $4.50
18 inch " " " " "  -  -  -  -  5.25
20 inch " " " " "  -  -  -  -  6.00
24 inch " " " " "  -  -  -  -  9.00

Kept in Stock.

Thimbles are 4 inches deep.
VENTILATING DOORS.

Cut showing construction of Ventilating Door

PRICE LIST.

Small Ventilating Door, 22 inches square, 16 inch square opening, 37 glasses - - $12 00

Medium Ventilating Door, 26 inches square, 20 inch square opening, 63 glasses - - 16 00

Large Ventilating Door, 30 inches square, 24 inch square opening, 103 glasses - - 20 00

Kept in Stock.

These doors are self-locking and water tight when closed, and protect the hole when open.
STEEL VAULT LIGHT COAL-HOLE DOORS.

PRICE LIST.

Small Door, 26 inches square, 20 inch square opening, 19 glasses - - - - $18.00

Large Door, 30 inches square, 24 inch square opening, 19 glasses - - - - 24.00

Kept in Stock.

These doors are made strong, have a heavy cast iron frame, and wrought steel door. They are well adapted for taking in steam coal or small freight, are water tight when closed, and lock with a bolt on under side.

Other sizes made to order.
STEEL COAL-HOLE DOOR.

PRICE LIST.

Small Door, 26 inches square, 20 in square opening $16.00
Large Door, 30 inches square, 24 in. square opening 20.00

Kept in Stock.

These doors are made strong, have a heavy cast iron frame, and wrought steel door. They are well adapted for taking in steam coal or small freight, are water tight when closed, and lock with a bolt on under side.

Other sizes made to order.
STEEL COAL-HOLE COVER AND THIMBLE.

PRICE LIST.

Small Cover, 26 inches square, 20 inch square opening - - - - - $16 00
Large Cover, 30 inches square, 24 inch square opening - - - - - 20 00

Kept in Stock.

These covers are made strong, have a heavy cast iron frame, and wrought steel cover, well supported with angle iron. They are well adapted for taking in steam coal or small freight, are water tight when closed, and lock with a bolt on under side.

Other sizes made to order.
STEEL COAL-HOLE COVER AND
THIMBLE.--Cover Flush with Thimble.

PRICE LIST.

Small Cover, 26 inches square, 20 inch square opening - - - - - $16 00
Large Cover, 30 inches square, 24 inch square opening - - - - - 20 00

Kept in Stock.

These covers are made strong, have a heavy cast iron frame, and wrought steel cover, well supported with angle iron. They are well adapted for taking in steam coal or small freight, and lock with a bolt on under side.

Other sizes made to order.
CAST IRON ALLEY COAL-HOLE COVER AND FRAME.

PRICE LIST.

No. 1 26 inches square, 20 inch square opening  $18.00
No. 2 30 inches square, 24 inch square opening   24.00

Kept in Stock.

These covers are very strong and can be driven over with heavy loads.
SIDEWALK DOORS

DIAMOND STEEL
PLAIN STEEL
PRISMATIC

DIRECTIONS FOR ORDERING

State catalogue and page numbers.
Give either, net door opening or over all size of the frame.
State on which side of frame hinges are required.
If possible, send sketch.
RAISED PRISMATIC TRAP DOORS

Made to Order.

For use over basement stairs, slides, sidewalk elevators, etc.

Are water-tight when closed, and fitted with strong brass hinges and hooks to hold them open, and bolt to fasten them when closed.

Hinges and doors project above frame.

Glazed as shown on pages 28-29, 30-31, 32-33, or with 3" square plain lenses.
FLUSH PRISMATIC TRAP DOORS

Made to Order.

For use over basement stairs, slides, sidewalk elevators, etc.

Are fitted with strong brass hinges and hooks to hold them open, and bolt to fasten them when closed.

Hinges and doors flush with frame.

Glazed as shown on pages 28-29, 30-31, 32-33, or with 3\textsuperscript{rd} square plain lenses.
RAISED STEEL TRAP DOORS

Made to Order.

For use over basement stairs, slides, sidewalk elevators, etc. Are the best and most durable doors made. Light to open and close, not easily broken, are water-tight when closed. Made with strong hinges and hooks to hold them open and bolt to fasten them when closed.

Doors and hinges project above frames.

Can be furnished with either plain or diamond surface steel.
FLUSH STEEL TRAP DOORS

Made to Order.

For use over basement stairs, slides, sidewalk elevators, etc. Are the best and most durable doors made. Light to open and close, not easily broken. Made with strong hinges and hooks to hold them open and bolt to fasten them when closed. Hinges and doors flush with frame.

Can be furnished with either plain or diamond surfaced steel.
VEIT'S PATENT TRAP DOORS

For use over slides, coal hole openings, roof scuttles, inside floor doors, etc.

Made in any size, either double or single, and in all styles, cast iron, steel, waterproof, flush, and with prismatic lights, if desired.
SIDEWALK LIGHTS
FLOOR LIGHTS
SKY LIGHTS

DIRECTIONS FOR ORDERING

State kind of glass wanted.
Give page and catalogue numbers.
Give outside dimensions including lap on sidewalk.
If possible, send sketch.
CONCRETE SIDEWALK LIGHT TILE

May be made any shape or size up to 25 square feet. Glazed with plain lenses 2", 2½" or 3", with convex lenses 3", or with refracting lenses 2" or 3" diameter.

Glazed panels weigh 25 pounds per square foot. Panels containing 12 to 16 square feet are most convenient to handle. Details of construction shown on page 35.
LENSES FOR
CONCRETE SIDEWALK TILE

PLAIN LENS

CONVEX LENS

REFRACTING LENS
CONCRETE SIDEWALK LIGHT TILE

May be made any size or shape up to 25 square feet. Glazed with plain lenses or double pendent lenses $2\frac{1}{2}'' \times 3\frac{1}{2}''$ or with plain lenses $3'' \times 3''$. Glazed panels weigh 25 pounds per square foot. Panels containing 12 to 16 square feet are most convenient to handle. Details of construction shown on page 35.
LENSES FOR CONCRETE SIDEWALK TILE

PLAIN LENS

DOUBLE PENDANT REFRACTING LENS
IRON PRISMATIC LIGHT TILE.

Can be made any size or shape. Send drawings for estimate. Price according to construction.
IRON PRISMATIC LIGHT LENSES.

PLAIN LENS

REFRACTING LENS
Reinforced Concrete Sidewalk Light

Refraacting Lens No. 29

Top of lens 2 3/4" square. Other lenses shown on page 37. Construction shown on page 36.
Details showing Concrete Sidewalk Lights with cast iron framework and tiles as furnished f. o. b. cars.

Concreting is done in shop before shipment, so that installation at building is a simple matter.

Can be made with panels 5' 0" x 5' 0", or of similar area. We can furnish panels without cast iron frame, using T iron cross ribs if desired.

Send sketches or drawing of work if possible.

Prices given f. o. b. cars or set in place at building.
Details of construction of reinforced concrete sidewalk lights. This system consists of glazed panels of concrete with \( \frac{3}{4} '' \) twisted steel rods between the rows of glass with cross supports of concrete or of T iron.

Panels are glazed with plain, multi prism or refracting lens glass, or with combinations of the different lenses. Panels are made any shape or size up to twenty-five square feet. Sections of from twelve to twenty square feet are most convenient to handle, as the weight is 25 pounds per square foot.

Concreting is done in shop by experts in this class of work, insuring best results. The panels may be set at building by any mechanic.

Prices f. o. b. cars or set in place at building.
LENSES FOR REINFORCED CONCRETE LIGHTS

Plain Lense No. 27

Multi Prism No. 28
Floor Lights are constructed of heavy cast iron panels with T iron cross supports, and are designed to carry regular floor loads with a proper factor of safety.

The standard floor glass is 6" square, and we also have patterns for 4" square glass. These two sizes of glass are of sufficient thickness to permit of light trucking. We are also prepared to quote on any special size or kind of glass required.

Glass is set with an elastic cement. The joints between the panels are also filled with this cement, which provides for expansion and contraction.

Skylights of a similar construction to the above glazed with wire glass are also manufactured by us. We prepare for proper joining with flashing, ventilators, etc.

Prices quoted f. o. b. cars, with panels glazed in shop, or set in place at building.
SKY LIGHTS

PATTERN No. 1

PATTERN No. 2

PATTERN No. 3

PATTERN No. 4

Can be made any desired shape. Send drawings for estimate. Price according to construction.

40
To avoid delay when sending orders or inquiries, give catalog and page numbers.
DESTROY FORMER CATALOGS