

SPEC DATA

This Spec-Data sheet conforms to editorial style prescribed by The Construction Specifications Institute. The manufacturer is responsible for technical accuracy.

1. PRODUCT NAME

Lux-Right™ Areawalls (Window Wells) and Bar Grates

2. MANUFACTURER

St. Paul Corrugating Co.
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Minneapolis, MN 55421

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3. PRODUCT DESCRIPTION

Basic Use: Areawalls allow air, light, egress and/or access into a basement or below ground level structure by acting as a structural barrier to hold back the surrounding backfill. They are suitable as air conditioner retainers or fire escape exits. They are adaptable for use as tree-wells, protective barriers for meters or other utility installations, fenders for trucks, lawn edging conveyor covers and small retaining walls. Bar Grates cover the areawall opening to help avoid accidents and are classified as "light-duty" grates.

Composition and Materials: Areawalls are fabricated from pre-galvanized, corrugated steel in various gauge thicknesses depending on the grade selected. The steel sheets have a commercial (G-90) ASTM A 653 galvanized coating to better assure longevity. Bar Grates are fabricated from hot-rolled steel strips, formed, welded and painted after fabrication. Hot dipped galvanized grates are available on special order.

Grades: Areawalls are manufactured in three grades: Imperial, Economy and Thrif-T.

Imperial Lux-Right: Most complete range of sizes and styles available. Manufactured from 16 gauge or better, lock-forming regular spangle, pre-galvanized steel sheets.

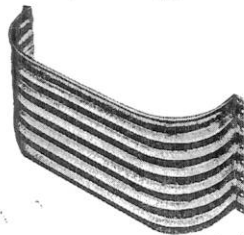
Economy Lux-Right: Duplicates the styles and size range of the original Imperial grade. Manufactured from 18 gauge, pre-galvanized, regular spangle steel sheets. Considered the standard in the industry. This popular alternative is economically value priced under our Imperial grade

and is adequate for most applications unless the deeper and larger size areawalls are required.

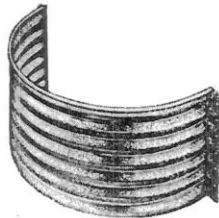
Thrif-T Lux-Right: Manufactured from 20 gauge range of pre-galvanized, lock-forming regular spangle steel, 37" wide in two styles (straight and round). Accepted as the standard size and grade typically available at the local level through building supply outlets.

Limitations: Care should be used in selecting the style and grade of larger and deeper areawalls. They should be specified in heavier gauge and properly supported during backfill and while other construction activity is taking place.

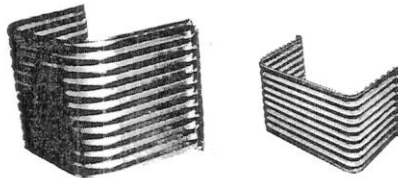
Styles:



Straight: Radius corners and straight face reduces projection but allows maximum opening for light and air. Harmonizes well with current building lines.



Round: Utilizes arch principle for maximum strength where projection away from wall is not critical.



Square: Projection from wall to width of opening exceeds our other styles. Excellent for large casement accessways, air conditioner retainers and escape exits.

Optional radii available (9" and 4"). More open radius (9") has shorter face to aid nesting.

Foundation Vent Areawalls: Illustrated on reverse side.

Inside Corner Areawalls: Designed for windows located near wall projections such as inside corners, fireplaces and chimneys. See reverse side.

Sizes: See Selector Chart. Special sizes available in all grades and styles; contact manufacturer.

4. TECHNICAL DATA

Areawalls: Corrugated, galvanized steel used has a 2.66" crest to crest measure by 1/2" depth annular configuration commonly referred to as 2 1/2"x 1/2" corrugation. Steel thickness is determined by grade ordered and ranges from 20 gauge (.036 dec.) through 16 gauge (.064 dec.). Zinc coating (galvanize) is (G-90) ASTM A 653 M quality or better. The exposed top edge has a 5/8" minimum roll-formed bead on all heights of areawalls. The 48" high and higher areawalls have SPC's exclusive roll-formed bead on both the top and bottom edges for additional strength and ease in handling (Thrif-T grade excluded). All styles include a wide flange for wall attachment which is prepunched with 1/2" holes. Most areawalls are one piece units up through 48" in height and incorporate the flange as an integral part of the areawall. Higher and wider areawalls are spot-welded together to insure integrity. The Thrif-T grade and some Economy grade areawalls are die-formed or coined in large presses for greater uniformity and economy. Standard heights available: 12", 15", 18", 24", 30", 36", 48" and 60". Higher areawalls are available, inquire. The order height is full nominal height, i.e., 24" measures 24". The areawall article number, such as ES4618-36", designates the grade (E) Economy grade, (S) Straight Style, (46) inside width, (18) projection from the wall and (36") height.

Bar Grates: Grates are fabricated from 3/16" hot-rolled flats, 3/4" and 1" wide welded on 2" center spacing with angle



St. Paul Corrugating Co.
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95: 5
88: 5

METAL FABRICATIONS
Formed Metal Fabrications
METAL FABRICATIONS
Areawalls/Windows/Wells

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This unit has been updated to indicate references to both *MasterFormat*™ 1995 Edition and *MASTERFORMAT*® 1988 Edition. The references to the numbers and titles in *MasterFormat* 1995 Edition are indicated above the references to the numbers and titles in *MASTERFORMAT* 1988 Edition.

95: 05500
88: 05500

clips on frame. The grate is made to fit down inside the areawall with the angle support clips resting on the top bead of the areawall. Stock grates are painted gray. Galvanized grates are available on special order.

5. INSTALLATION

The areawall should extend beyond the rough opening for the window by at least 3". Some building codes may require additional clearance. The top of the areawalls should extend approximately 2" above the established grade line and down at least 6" below the window sill. If in doubt, go with a higher wall since extensions are difficult to attach. Fill the space below the window well with select gravel for drainage. Flanges should be attached to the foundation wall at sufficient points (12" centers minimum) to assure structural stability. Use masonry nails, self-drilling anchors or other approved fasteners. Select backfill material should be used, such as granular with some clay, that is free of large rock and earth clods and should not be frozen material, sod, cinders or other active soils. The load carrying capacity of the areawalls is largely dependent

upon proper backfill procedure. The fill should be placed evenly around the areawall in 6-8" layers using ordinary compaction making sure the shape is not distorted. On larger sizes a 90% density factor may be desirable. Compacted fill around the outside of the areawall should be at least 12", or one-half of areawall projection. We recommend supporting the areawall inside face during the backfilling procedure. Supports should be left in place until construction activity ceases. On larger and deeper areawalls, care should be used in selecting the grade and style with consideration given to a permanent support at the face such as a knee-brace.

6. AVAILABILITY AND COST

Availability: Available throughout continental United States and Alaska through lumber yards and builder supply companies. Complete range of styles, grades, and sizes maintained in Minneapolis for immediate shipment.

Cost: Varies by grade, style and quantity. Combined orders of 50 units are usually freight prepaid.

7. WARRANTY

St. Paul Corrugating Co. guarantees these products for a period of one year, to be free from defects in manufacture and to be in conformance with our quality control requirements; and limits its responsibilities to replacement cost of material only.

8. MAINTENANCE

Areawalls are galvanized and therefore maintenance free for a period of years. Painted grates require periodic touch up. Galvanized bar grates are maintenance free.

9. TECHNICAL SERVICES

Complete technical services are available through our distributors and/or manufacturers' agents. Call collect or write for our closest representative.

10. FILING SYSTEMS

- CSI's SPEC-SEARCH™
 - IHS' SPEC-DATA® II
- Additional information available upon request.

— Lux-Right AREAWALL SELECTION CHART —

To order/specify: Refer to Section #5, Installation. Select the grade and style in the key below and place before stock number listed. Specify height needed. Available heights are 12", 15", 18", 24", 30", 36", 48", 60" and higher. Example: ES4618 - 36".

Styles:	STRAIGHT	STRAIGHT ESCAPE	ROUND	CASEMENT SQUARE			ACCESSWAY SQUARE
Inside Width: "A"							
Corner Radius: Projection: "B"	9" - 16" 12" - 20"	16" 24"	Varies 14" - 20"	9" 24"	9" 30"	9" 36"	4" 22" - 30"
Stock Numbers	3512 3712 4014 4618 5518 5918 6718 7120 7920 9120	4324 5624 6524 7324	3114 3518 3720 4020 4620	3724 4224 4824 5524 6324 7224 8424 8924 9724	3730 4230 5230 6030 7230 7730 8530	4236 5036 5536 6036 6736 7536	2922 3224 3630 3722 4224
Grade Key: Imperial Economy Bar Grates*	IS ES BSC	ISC ESC BSC	IR ER BRC	IC EC BCG	IC EC BCG	IC EC BCG	IAC EAC BAG

* Order grates with walls; otherwise, template will be required.

** Other projections available. Wall measure wider than face.

FOUNDATION VENT AREAWALLS

Size	Width	Proj.	Height
FV164	16.5"	4"	11.5"
FV168	16.5"	8"	11.5"
FV168E	16.5"	8"	16.5"
FV2012	20"	12"	12"
FV2012	20"	12"	15"

THRIFT-GRADE Lux-Right AREAWALLS
Standard Areawalls. Seven Standard Heights.

INSIDE CORNER AREAWALLS

All sizes same as Straight Style.