

SUBMITTAL DATA

For UEPH Job, Camp Johnson
Camp Lejune, N.C.

Contract No. N62470-82-C-2244

DIVISION 10 - SPECIALTIES

SECTION 10201 LOUVERS

from

RAMSEY AIR CONDITIONING CO.

Commerce Street P. O. Box 1333
JACKSONVILLE, NORTH CAROLINA 28540

MANUFACTURER'S DATA

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut(s), etc., and approved/proposed to be incorporated into Contract Number N62470-82-C-2244 is in compliance with the contract drawings and specifications, and can be installed in the allocated space, and is approved for use submitted for Government approval.

Authorized Reviser

[Handwritten Signature]

Date 1-24-85

Signature CQC

[Handwritten Signature]

Date 1-24-85

15

15

15

STANDARD CONSTRUCTION

SCREEN: 19 gage galvanized 1/2" mesh in removable frame.

FINISH: Mill galvanized.

L345

FRAME: 20 gage galvanized channel - 4" x 1" with box flanges.

BLADES: 20 gage galvanized steel J Style at 45° angle spaced approximately 5" c-c.

L6345

FRAME: 20 gage galvanized channel - 6" x 1" with box flanges.

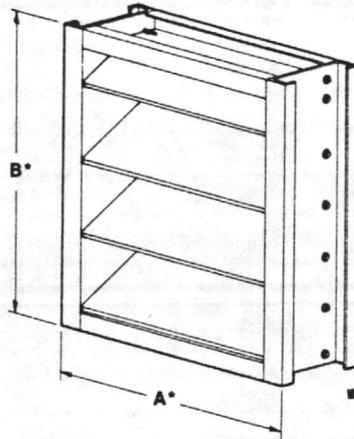
BLADES: 20 gage galvanized steel J Style at 45° angle spaced approximately 7" c-c.

MINIMUM SIZE: 12"w x 12"h.

MAXIMUM SIZE:

Single section 90"w x 120"h or 120"w x 90"h.

Assembly of sections — size unlimited.



FEATURES

EXCELLENT WEATHER PROTECTION at low cost.

APPEARANCE: Symmetrical design with level accurately spaced blades blends well with all types of architecture.

VARIATIONS

(at additional cost)

SCREENS: Many variations of bird and insect screen available.

FINISHES:

Baked Acrylic Enamel
Aliphatic Polyurethane Enamel
Other Finishes Available

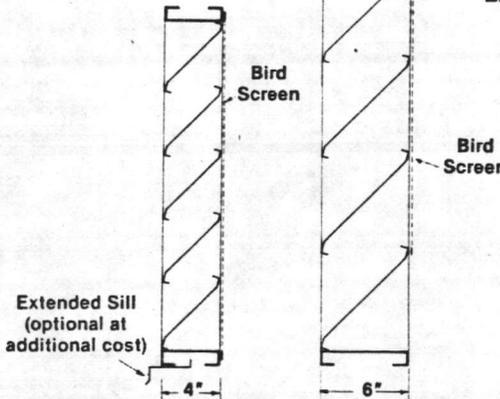
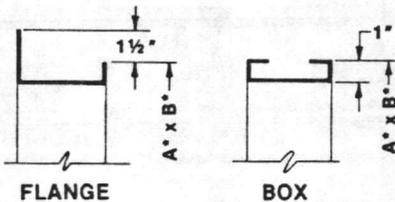
SPECIAL MATERIALS:

Aluminum
Stainless Steel

HEAVIER CONSTRUCTION

EXTENDED SILL

FRAME CONSTRUCTION



16GA Frame and Blades
NOTE: ALL LOUVERS TO HAVE BAKED ENAMEL FINISH. PLEASE SELECT COLOR FROM CHART ATTACHED.

Par 1.3.2

NOTE: Screen adds approx. 1/2" to depth.

*Unit furnished approx. 1/4" smaller than given "opening" dimensions.

| QUAN. | MODEL | SIZE | | FRAME | VARIATIONS |
|---------------------------------|-------|---------|---------|--------|-----------------------------------|
| | | A*-WIDE | B*-HIGH | | |
| 15 | L345 | 16" | 16" | Box | For Outside Air (FCU#1) BS |
| 15 | L345 | 18" | 18" | Box | For Exhaust Air (EF#2) BS |
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| 1 | L345 | 52" | 64" | Box | For Outside Air (Mech. Bldg.) IS |
| 1 | L345 | 24" | 42" | Box | For Outside Air (Lift Station) IS |
| 1 | L345 | 36" | 36" | Box | For Exhaust Air (Lift Station) BS |
| 15 | L345 | 8" | 24" | Flange | For Dryer Vents BS |
| <i>SEE SHOP DRAW SHEET 1015</i> | | | | | |

JOB Unaccompanied Enlisted Personnel Housing **LOCATION** Marine Corps Base
CONTRACTOR Ramsey Air Conditioning Inc. **Camp Lejeune, NC**

RUSKIN Mfg. Co.

P. O. Box 129

Hoffman & Hoffman 22-1116R

Grandview, Mo. 64030

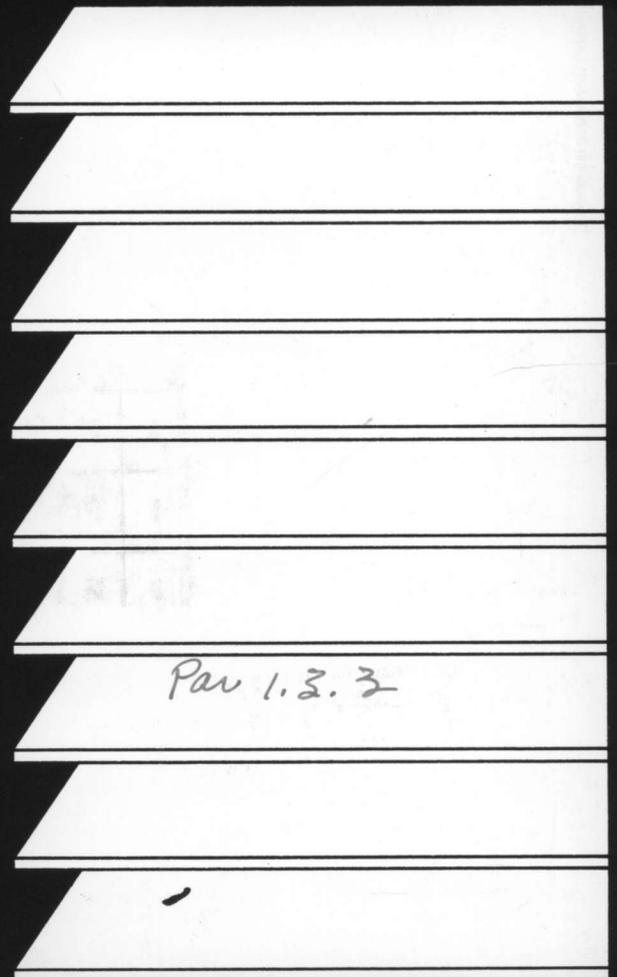
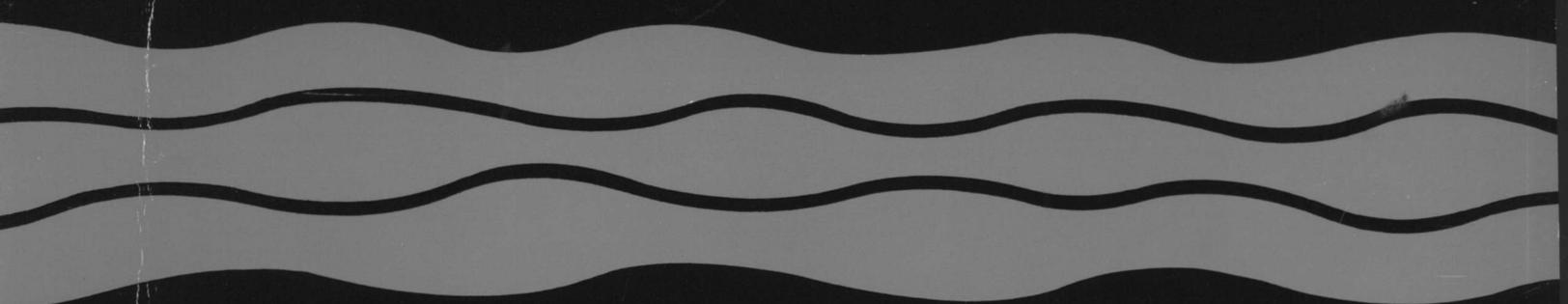


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RUSKIN[®]

AIR HANDLING SPECIALTIES



FINISHES

FINISHES

Descriptions and Specifications for Standard Ruskin protective coatings.

Louvers are finished to enhance appearance (match or contrast with adjacent colors) and to provide extended resistance to weathering on the same basis as adjacent building surfaces.

Architects and Engineers are offered numerous finishes by a variety of manufacturers. Ruskin can provide nearly all finishes. Those described here are standard because they represent those finishes usually selected, specified, or required for most applications.

KYNAR

The premium color finish for extruded aluminum weather louvers. It is a two coat, maintenance free fluorocarbon coating system which provides excellent color retention, adhesive properties, resistance to chalking, fading, chemical abrasion and weather. The finish contains a Kynar 500 base resin and consists of a thermo cured primer and top coat applied on properly pretreated surfaces.

Kynar is recommended as a finish on extruded aluminum louvers. A 5 year warranty against color change, chalking, peeling, etc. can be provided when applied as recommended.

Specification

Louvers shall receive Kynar finish color coating applied following a thorough cleaning, pretreatment and prime coating of the aluminum extrusions. Cleaning shall include complete submersion in an acid cleaner, an alkali cleaner, an acid deoxidation, an amorphous chrome phosphate conversion coating and an acidulated final rinse. Extrusions shall be dried before application of primer coat. Dry film thickness of the primer coat shall be approximately 0.3 mil after baking at 350° F. for 10 to 15 minutes and cooled at ambient temperature. Kynar top coat shall be applied to provide a final dry film thickness of approximately 1.2 mils when baked at 450° F. for 10 minutes. Color shall be Ruskin (select color name from opposite page).

BAKED ACRYLIC ENAMEL

A superior color finish for aluminum and steel louvers. Acrylic enamels have the longest life, greatest durability and best color retention of all enamel formulations. Ruskin's Baked Acrylic Enamel is a one coat system designed to add beauty and durability to weather louvers. It combines color permanence, low maintenance and economy in one package. This finish provides excellent corrosion resistance, impact and mar resistance, flexibility and color control. The finish consists of a top coat applied on properly cleaned and pretreated metal surfaces. A 2 year warranty can be provided when applied as recommended.

Specification

Louvers shall receive finish color coating of baked acrylic enamel following thorough cleaning and pretreatment of the metal. The dry film thickness shall be approximately 1.5 mils. Color shall be Ruskin (select color name from opposite page).

INTEGRAL COLOR ANODIZE

A hard oxide color coating enhances the appearance and extends the life of extruded aluminum louvers. This finish is also described by the trade names, Duranodic, Kalcolor, Permanodic, Anolock and others. Aluminum Association Code Number AA-C22A42 specifically describes the Integral Color Anodize process which involves significantly more than merely "Color Anodizing." Color Finish is applied electrochemically on chemically clean (caustic etched) aluminum extrusions to a minimum surface depth of 0.7 mil. Color becomes an integral part of the extrusion surface. Shade variations of the same color can be expected. This finish is only available on extruded aluminum louvers.

Specification

Louvers shall receive an integral color anodized finish complying with Aluminum Association Code AA-C22A42. Finish shall be applied to a minimum thickness of 0.7 mil onto chemically etched and pretreated aluminum extrusion. Color shall be Ruskin (select color name from opposite page).

CLEAR ANODIZE

A clear oxide coating which improves the appearance and extends the life of extruded aluminum louvers. Similar to Integral Color Anodizing except no color is added. Clear Anodize preoxidizes the aluminum extrusion surface providing a uniform clear finish not easily affected by natural oxidizing influences such as weather, smog, chemical fumes, etc. Appearance is much the same as clean mill finish extrusions.

Specification

Louvers shall receive a **204-R1** clear anodize finish complying with Aluminum Association Code AA-C22A31. Finish shall be applied to chemically etched and pretreated aluminum extrusions to a minimum surface depth of 0.4 mil by a 30 minute anodizing process.

204-R1 (Aluminum Association Code AA-C22A31) provides a 0.4 mil minimum surface depth treatment and is recommended for louvers exposed to normal weather.

215-R1 (Aluminum Association Code AA-C22A41) provides a 0.7 mil minimum surface depth treatment and is recommended for louvers exposed to more severe corrosive or abrasive atmospheres.

Louvers shall receive a **215-R1** clear anodize finish complying with Aluminum Association Code AA-C22A41. Finish shall be applied to chemically etched and pretreated aluminum extrusions to a minimum surface depth of 0.7 mil by a 60 minute anodizing process.

These finishes are only available on extruded aluminum louvers.

ETCH AND LACQUER

A cleaning process to enhance the appearance of extruded aluminum louvers. Aluminum Extrusions are chemically cleaned by a caustic etching process to remove all accumulated foreign material and brighten the appearance of the metal. It is necessary to protect the etched finish with a single coat of methacrylate or butylate lacquer. This finish is only recommended for extruded aluminum louvers. It is intended to improve initial appearance and not to enhance weathering capability.

Specification

Louvers shall be thoroughly cleaned by a chemical caustic etching process followed by a coat of clear lacquer over all exposed surfaces.

MILL FINISH

The natural aluminum or galvanized steel provided by the extruding or rolling mills. Louvers are supplied with Standard Mill Finish which can be field painted (following routine cleaning procedures) or left in its natural state in applications where normal weathering is present and color matching is not critical. Many louvers are installed with no finish (other than Standard Mill Finish) applied.

Specification

Louvers shall be supplied with Standard Mill Finish.

PRIME COAT

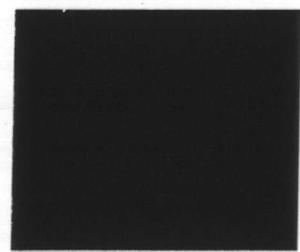
A zinc chromate primer preparation for field painting. Specifications occasionally require that louvers be supplied with a primer finish preparation for field painting. In these instances, Ruskin supplied louvers (aluminum or steel) which have been chemically cleaned and a Zinc Chromate primer applied to all surfaces. THIS FINISH OPTION IS NOT RECOMMENDED as contamination of prime coat finish always occurs before field painting is attempted requiring thorough field cleaning prior to painting.

Specification

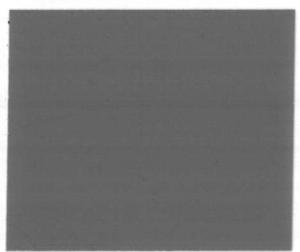
Not Recommended.

STANDARD LOUVER FINISHES

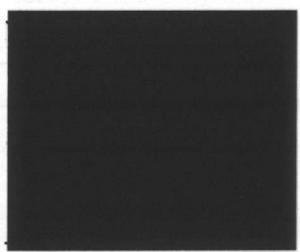
● Kynar and Baked Acrylic Enamel (Painted Finishes)



Charcoal



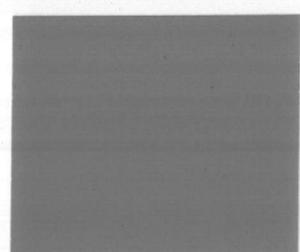
Desert Tan



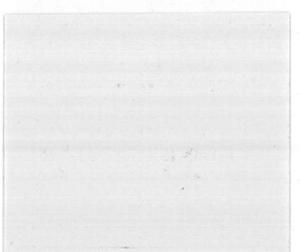
Sage Brown



Cactus Green



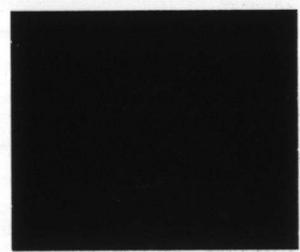
Antique Gold



Bone White



Colonial Blue



Black



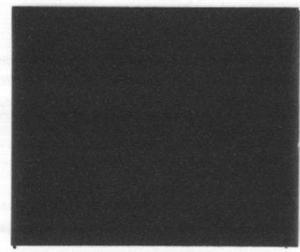
Medium Bronze



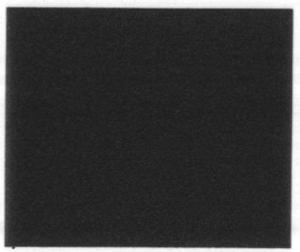
Dark Bronze

← COLOR SELECTION
BY ROICC

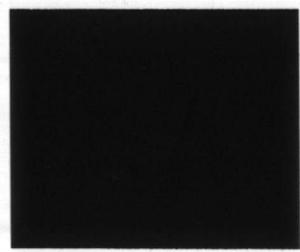
Integral Color Anodize



Medium Bronze

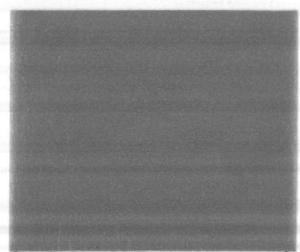


Dark Bronze

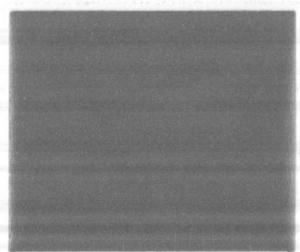


Black

Clear Anodize (204-R1, 215-R1)



204-R1



215-R1

Factory applied painted and anodize color finishes vary from above reproductions.

INDUSTRIAL FINISHES

While Louver Finishes are primarily intended to enhance appearance and provide resistance to weathering, Industrial Finishes are designed to resist a wide variety of conditions from temperature extremes to chemical reagents. Trade name finishes are often specified to provide protection against a specific environment. Ruskin products (louvers, dampers and other products) are often exposed to "Frequent Contact" with a variety of contaminants. Certain products can be adequately protected by applied (paint) finishes while many products incorporate axles, bearings, linkages, etc. which are not easily protected by applied finishes. Often products must be fabricated all or in part from various stainless steel alloys as well as receiving an applied finish to provide adequate service. Consult Ruskin for Industrial Finishes other than those described herein as standard.

HIGH TEMPERATURE ALUMINUM PAINT

For environments with temperatures up to 1000° F. Carbon Steel Products (not protected by galvanizing) and products subject to occasional high temperature (up to 1000° F.) require a finish that remains effective at the higher temperature yet provides protection against normal oxidation at lower temperatures. High Temperature Aluminum Paint provides this required protection. It is recommended as a finish for carbon steel products not protected by galvanizing and products that see operating temperatures up to 1000° F.

Specification:

Product to be chemically cleaned and protected with a finish of high temperature aluminum paint applied in strict accordance with manufacturer's recommendations.

ALIPHATIC POLYURETHANE ENAMEL

Provides excellent protection against the widest range of industrial contaminants. Chart shown below illustrates Aliphatic Polyurethane Enamel as a recommended protective finish for metal surfaces in frequent contact* with all listed reagents. Standard color is semigloss machinery grey. Limited selection of other colors available.

*Frequent Contact defined as frequent splash and spillage of liquids or frequent exposure to strong concentrations of vapors and fumes.

Specification

Product shall be supplied with a finish of Aliphatic Polyurethane Enamel applied as hereinafter specified. Product to be chemically cleaned or "Pickled" and primed with epoxy primer. Finish coat shall be applied to a dry film thickness of 1.5 to 2.5 mils. Cleaning, priming and finishing procedure shall be in strict accordance with paint manufacturer's recommended application procedures.

Chemical Resistance Chart

Code:

I = Immersion

F = Frequent Contact

O = Occasional Contact

NR = Not Recommended

TYPE OF APPLIED FINISH

| | Alcohols | Aliphatic Hydrocarbons | Alkali Solutions—1 | Aromatic Hydrocarbons | Fresh Water | Ketones | Mineral Acids—2 | Mineral Oils | Organic Acids—3 | Oxidizing Agents—4 | Salt Solutions | Vegetable Oils | Waste Water |
|--|----------|------------------------|--------------------|-----------------------|-------------|---------|-----------------|--------------|-----------------|--------------------|----------------|----------------|-------------|
| Chlorinated Rubber | O | F | F | NR | I | NR | F | I | O | NR | F | NR | NR |
| Coal Tar-Epoxy | F | I | F | I | I | F | O | I | O | O | I | F | I |
| Vinyl Copolymer | NR | I | F | O | I | NR | F | O | F | F | I | O | I |
| Epoxy-Polyamide | I | I | F | I | I | F | O | I | O | O | I | F | I |
| Aliphatic Polyurethane (Ruskin's Standard) | F | F | F | F | F | F | F | F | F | F | F | F | F |

1 Includes:
Sodium Hydroxide, Ammonium Hydroxide

2 Includes:
Sulfuric Acid, Hydrochloric Acid, Phosphoric Acid

3 Includes:
Acetic Acid, Oleic Acid, Lactic Acid

4 Includes:
Chromic Acid, Nitric Acid, Hydrogen Peroxide, Household Bleach

RUSKIN Manufacturing Company

RUSKIN® air handling specialties

Factories: Parsons and Great Bend, Kansas and Anaheim, California
Representatives in all Major Cities

Box 129
Grandview, Missouri 64030
Phone 816 761 7476
TWX 910 777 7041
TELEX 42 4192

SHOP DRAWINGS

52

75
100

52

75
100

RUSKIN®

Formed

LOUVERS

Stationary

L345
L6345

STANDARD CONSTRUCTION

SCREEN: 19 gage galvanized 1/2" mesh in removable frame.

FINISH: Mill galvanized.

L345

FRAME: 20 gage galvanized channel - 4" x 1" with box flanges.

BLADES: 20 gage galvanized steel J Style at 45° angle spaced approximately 5" c-c.

L6345

FRAME: 20 gage galvanized channel - 6" x 1" with box flanges.

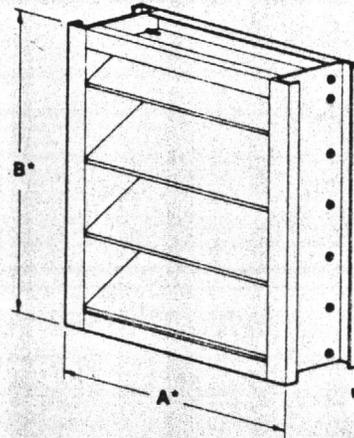
BLADES: 20 gage galvanized steel J Style at 45° angle spaced approximately 7" c-c.

MINIMUM SIZE: 12"w x 12"h.

MAXIMUM SIZE:

Single section 90"w x 120"h or 120"w x 90"h.

Assembly of sections — size unlimited.



FEATURES

EXCELLENT WEATHER PROTECTION at low cost.

APPEARANCE: Symmetrical design with level accurately spaced blades blends well with all types of architecture.

VARIATIONS

(at additional cost)

SCREENS: Many variations of bird and insect screen available.

FINISHES:

Baked Acrylic Enamel
Aliphatic Polyurethane Enamel
Other Finishes Available

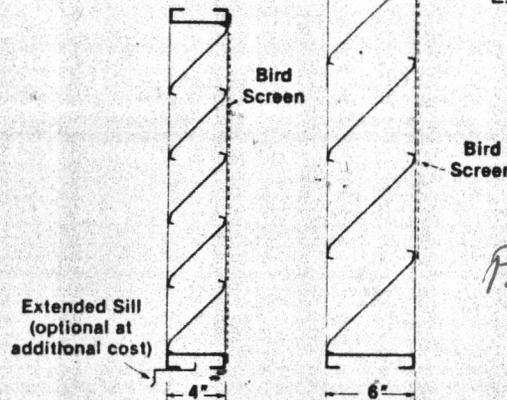
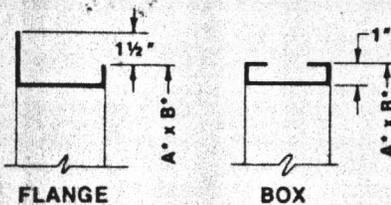
SPECIAL MATERIALS:

Aluminum
Stainless Steel

HEAVIER CONSTRUCTION

EXTENDED SILL

FRAME CONSTRUCTION



16GA Frame and Blades
NOTE: ALL LOUVERS TO HAVE BAKED ENAMEL FINISH. PLEASE SELECT COLOR FROM CHART ATTACHED.

Par 1.3.4

NOTE: Screen adds approx. 1/2" to depth.

*Unit furnished approx. 1/4" smaller than given "opening" dimensions.

| QUAN. | MODEL | SIZE | | FRAME | VARIATIONS |
|-------|-------|---------|---------|--------|-------------------------------------|
| | | A*-WIDE | B*-HIGH | | |
| 15 | L345 | 16" | 16" | Box | For Outside Air (FCU#1) BS |
| 15 | L345 | 18" | 18" | Box | For Exhaust Air (EF#2) BS |
| 30 | L345 | 36" | 12" 14" | Box | For Outside Air (AHU) BS |
| 1 | L345 | 52" | 64" | Box | For Outside Air (Mech. Bldg.) IS |
| 1 | L345 | 24" | 42" | Box | For Outside Air (Lift Station) IS |
| 1 | L345 | 36" | 36" | Box | For Exhaust Air (Lift Station) BS |
| 15 | L345 | 8" | 24" | Flange | For Dryer Vents BS |
| 30 | L345 | 12" | 12" | FLANGE | FOR RELIEF AIR DOOR 22 UNIT "14" BS |

JOB Unaccompanied Enlisted Personnel Housing **LOCATION** Marine Corps Base
CONTRACTOR Ramsey Air Conditioning Inc. Camp Lejeune, NC *GB*

RUSKIN Mfg. Co.

P. O. Box 129

Hoffman & Hoffman 22-1116R
Grandview, Mo. 64030



1984

57
111

with level...
...at low cost



FRAME...
...with box hinges

VARIAIONS

...many variations of...
...of the



FRAME CONSTRUCTION

Rev 1.3.7

57
111

...the...
...the...

CERTIFICATES

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RUSKIN

Formed

LOUVERS
Stationary

L345
L6345

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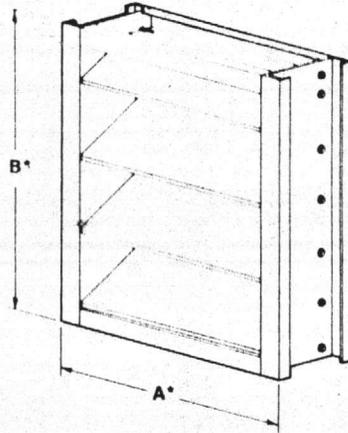
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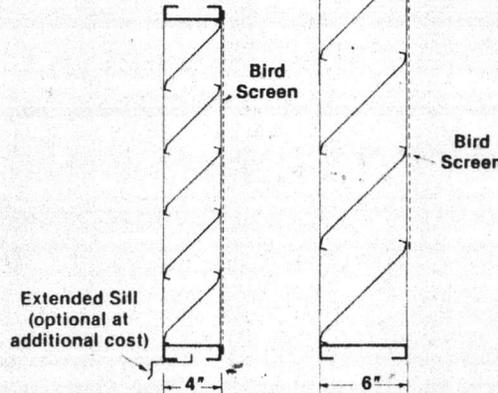
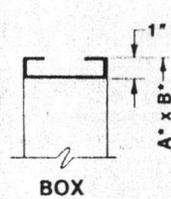
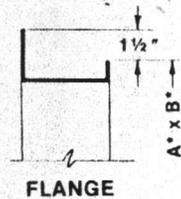
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- Stainless Steel

HEAVIER CONSTRUCTION

EXTENDED SILL

16GA Frame and Blades

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