

SECTION 05580

ARCHITECTURAL METAL COLUMN COVERS

PART 1 - GENERAL

1.1 SUMMARY:

- A. Work of this section includes materials, accessories and related items for the complete installation of column covers.
- B. Related work specified elsewhere includes internal post structure for solid support of column covers.

1.2 SUBMITTALS

- A. Submit complete shop drawings indicating quantities, finishes, dimensions, and attachment relationships.
- B. Submit manufacturers product data, specifications and installation instructions.
- C. Submit color and finish samples to determine range of texture and consistency of color and finish to be expected in the finished work. Standard sample size shall be 3" x 3".

1.3 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of 5 years experience in manufacturing architectural metals.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver components in clearly marked containers and packages suitable for shipment of specified products so as to prevent finish damage in transit. Provide protective wrapping or film to provide protection.
- B. Store components in locations that will avoid damage from job-site traffic, moisture, stacking or other job-site contamination.
- C. Handle components to avoid racking, twisting, denting or scratching of finished surfaces.

1.5 WARRANTY:

- A. Provide manufacturer's warranty against defects in material and workmanship for a period of one year beginning on Date of Substantial Completion.  
  
RETAIN OPTIONAL FINISH WARRANTY FOR FLUOROPOLYMER FINISH AT ADDITIONAL COST.
- B. Finish warranty: (Note: Warranty must be requested at time of quotation) Warrant fluoropolymer coating to remain free, under normal atmospheric conditions, from peeling, checking, cracking, chalking in excess of numerical rating of 8 when measured in accord with ASTM D4214, of fading in excess of 5 N.B.S. Units during warranty period. Warranty period shall be \*\* 5 \*\* 10 \*\* 20 \*\* years, beginning at Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

SELECT PRODUCT SERIES FROM FOLLOWING:  
 ECONOMICAL BUTT JOINT - SERIES E.  
 REVEAL VERTICAL JOINT - SERIES R.  
 SOFT V BUTT JOINT - SERIES B.  
 SOFT V BUTT JOINT, MECHANICAL - SERIES KS.  
 FIELD FINISHED, TAPED & SPACKLED JOINT - SERIES FF.  
 EXTRUDED ROUND/BUTT JOINT - SERIES EX

A. Acceptable products include column covers manufactured by: Fry Reglet Corporation, Series \*\* E.  
 \*\*EX.\*\*  
 \*\* R. \*\* B. \*\* KS. \*\* FF. \*\*

Fry Reglet Corporation  
 405 N. 75th Avenue  
 Bldg. 2, Suite 134  
 Phoenix, AZ 85043  
 Phone 800-955-2343  
 Fax 602-455-8276

2.2 PRODUCTS

A. SERIES E - ECONOMICAL BUTT JOINT

SELECT FROM THE FOLLOWING. PROVIDE CRITERIA FOR CUSTOM FINISH IF SELECTED.

- 1. Stainless steel: Type 304 stainless steel, complying with ASTM A789.
  - a. Thickness: \*\* 14 \*\* 16 \*\* gage.
  - b. Finish: \*\* Brushed #4. \*\* Polished #8. \*\* Custom. \*\*
  
- with 1. Aluminum sheet and plate: Type 3003-H14, 5005-H34 (anodized) or 5052-H32 alloy complying
  - ASTM B209.
  - a. Thickness: \*\* 0.090". \*\* 0.125". \*\*
  - b. Finish: \*\* Clear anodized. \*\* Polyurethane paint. \*\* Kynar 500 Paint - Fluoropolymer.
- (Available with .125" thickness only) \*\* Enamel. \*\* Valspar Azores \*\* Primed for field finishing. \*\*
  - c. \*\* Color:\*\* Custom color selected by Architect.
  
- \*\* OR \*\*
  
- d. \*\* Color: As selected by Architect from manufacturer?s standard color selections. \*\*
  
- 1 Brass sheet: Alloy C280, Muntz metal alloy 280.
  - a. Thickness: 0.063".
  - b. Finish: \*\* Polished. \*\* Brushed. \*\*
  
- Designation 1. Galvanized steel: Commercial grade electro- galvanized steel meeting ASTM A525, Coating
  - A-40 or A-60 with surfaces chemically treated for paint adhesion in accord with ASTM D2092,
  - Method A, crystalline zinc phosphate treatment.
  - a. Thickness: \*\* 14 \*\* 16 \*\* gage.
  - b. Finish: \*\* Primer ready \*\* Polyurethane. \*\* Powder Coated \*\*
  
- RETAIN COLOR WITH POLYURETHANE FINISH.
  
- c. Color: Custom color selected by Architect.

**\*\* OR \*\***

d. Color: As selected by Architect from manufacturer's standard color selections.

2. Formed steel posts: SERIES E REQUIRES POSTS BE PROVIDED BY OTHERS,  
OR POSTS CAN OPTIONALLY BE SUPPLIED BY FACTORY

3. MANUFACTURED UNITS:

a. Configuration: **\*\* Round. \*\* Racetrack. \*\* Oval. \*\* Three quarter-round. \*\* Half-round.**  
**\*\***  
Quarter round. **\*\* Square. \*\***

INSERT DIAMETER WHERE APPLICABLE. CHOOSE FROM THE FOLLOWING MINIMUMS.  
CONSULT FACTORY FOR OTHER DIAMETERS.

STAINLESS STEEL - 16 gage (8' tall)=12" 16 gage (12' tall)=15" 14 gage = 13"

PAINTLOCK STEEL - 16 gage (8' tall)=12" 16 gage (12' tall)=13" 14 gage = 12"

ALUMINUM - 12".

BRASS - 20".

b. Diameter: **\*\* \_\_\_\_\_ \*\***

c. Joint type: Vertical: Soft V Butt joint.

d. Horizontal:

1. Ceiling: **\*\* Flush to ceiling. \*\* Adjustable inset reveal. \*\* Through ceiling. \*\***

2. Intermediate: **\*\* Inset reveal joint. \*\* Butt joint with factory supplied alignment plates. \*\***

e. Floor: **\*\* Flush to floor. \*\* Fixed inset base reveal. \*\* Adjustable inset base reveal \*\***

4 FABRICATION

a. Form column covers to specified dimensions and diameters as indicated on shop drawings.  
b. Column covers shall be self aligning with attachment clips at 18" o.c. to assure solid  
attachment to  
post structures.  
c. Form radii to achieve true and smooth curves as indicated.  
d. Provide column covers in sections a maximum 12'-0" tall per section.  
Provide additional sections to achieve finished heights above 12'-0".  
e. Columns shall have no exposed fasteners unless specified.  
f. Provide additional bracing components as necessary to stiffen substructure and insure solid  
mid-  
span bracings and connections. (By others)

B. SERIES R - REVEAL VERTICAL JOINT

SELECT FROM THE FOLLOWING. PROVIDE CRITERIA FOR CUSTOM FINISH IF SELECTED.

1. Stainless steel: Type 304 stainless steel, complying with ASTM A789.

a. Thickness: **\*\* 14 \*\* 16 \*\* gage.**

b. Finish: **\*\* Brushed #4. \*\* Polished #8. \*\* Custom. \*\***

1. Aluminum sheet and plate: Type 3003-H14, 5005-H34 (anodized) or 5052-H32 alloy complying  
with  
ASTM B209.

a. Thickness: **\*\* 0.090". \*\* 0.125". \*\***

b. Finish: **\*\* Clear anodized. \*\* Polyurethane paint. \*\* Kynar 500 Paint - Fluoropolymer.**

(Available

with .125" thickness only)\*\* Enamel. **\*\* Valspar Azores \*\* Primed for field finishing. \*\***

c. \*\* Color:\*\* Custom color selected by Architect.

\*\* OR \*\*

d. \*\* Color: As selected by Architect from manufacturer's standard color selections. \*\*

1 Brass sheet: Alloy C280, Muntz metal alloy 280.

a. Thickness: 0.063".

b. Finish: \*\* Polished. \*\* Brushed. \*\*

Designation

1. Galvanized steel: Commercial grade electro- galvanized steel meeting ASTM A525, Coating

Method

A-40 or A-60 with surfaces chemically treated for paint adhesion in accord with ASTM D2092,

A, crystalline zinc phosphate treatment.

a. Thickness: \*\* 14 \*\* 16 \*\* gage.

b. Finish: \*\* Primer ready \*\* Polyurethane. \*\* Powder Coated\*\*

RETAIN COLOR WITH POLYURETHANE FINISH.

c. Color: Custom color selected by Architect.

\*\* OR \*\*

d. Color: As selected by Architect from manufacturer's standard color selections.

2. Extruded aluminum posts: 6063 allow, temper T5 meeting ASTM B221 and have minimum wall thickness of 0.120".

3. MANUFACTURED UNITS:

a. Configuration: \*\* Round. \*\* Racetrack. \*\* Oval. \*\* Three quarter-round. \*\* Half-round.

\*\*

Quarter round. \*\* Square. \*\*

INSERT DIAMETER WHERE APPLICABLE. CHOOSE FROM THE FOLLOWING MINIMUMS.  
CONSULT FACTORY FOR OTHER DIAMETERS.

STAINLESS STEEL - 16 gage (8' tall)=12" 16 gage (12' tall)=15" 14 gage = 13"

PAINTLOCK STEEL - 16 gage (8' tall)=12" 16 gage (12' tall)=13" 14 gage = 12"

ALUMINUM - 12".

BRASS - 20".

b. Diameter: \*\* \_\_\_\_\_.

c. Joint type: 1/2" x 1/2" reveal insert.

d. Horizontal:

1. Ceiling: \*\* Flush to ceiling. \*\* Adjustable inset reveal. \*\* Through ceiling. \*\*

2. Intermediate: \*\* Inset reveal joint. \*\* Butt joint with factory supplied alignment plates. \*\*

e. Floor: \*\* Flush to floor. \*\* Fixed inset base reveal. \*\*

4 FABRICATION

a. Form column covers to specified dimensions and diameters as indicated on shop drawings.

b. Provide column covers in sections a maximum 12'-0" tall per section.

Provide additional sections to achieve finished heights above 12'-0".

c. Columns shall have no exposed fasteners unless specified.

d. Provide additional bracing components as necessary to stiffen substructure and insure solid

mid-

span bracings and connections. (By others)

C. SERIES B - SOFT V BUTT JOINT

SELECT FROM THE FOLLOWING. PROVIDE CRITERIA FOR CUSTOM FINISH IF SELECTED.

- with
- (Available
1. Stainless steel: Type 304 stainless steel, complying with ASTM A789.
    - a. Thickness: \*\* 14 \*\* 16 \*\* gage.
    - b. Finish: \*\* Brushed #4. \*\* Polished #8. \*\* Custom. \*\*
  
  1. Aluminum sheet and plate: Type 3003-H14, 5005-H34 (anodized) or 5052-H32 alloy complying with ASTM B209.
    - a. Thickness: \*\* 0.090". \*\* 0.125". \*\*
    - b. Finish: \*\* Clear anodized. \*\* Polyurethane paint. \*\* Kynar 500 Paint - Fluoropolymer. with .125" thickness only)\*\* Enamel. \*\* Valspar Azores \*\* Primed for field finishing. \*\*
    - c. \*\* Color:\*\* Custom color selected by Architect.

\*\* OR \*\*

- d. \*\* Color: As selected by Architect from manufacturer?s standard color selections. \*\*

- 1 Brass sheet: Alloy C280, Muntz metal alloy 280.

- a. Thickness: 0.063".
- b. Finish: \*\* Polished. \*\* Brushed. \*\*

- Designation
- Method
1. Galvanized steel: Commercial grade electro- galvanized steel meeting ASTM A525, Coating A-40 or A-60 with surfaces chemically treated for paint adhesion in accord with ASTM D2092, A, crystalline zinc phosphate treatment.

- a. Thickness: \*\* 14 \*\* 16 \*\* gage.
- b. Finish: \*\* Primer ready \*\* Polyurethane. \*\* Powder Coated \*\*

RETAIN COLOR WITH POLYURETHANE FINISH.

- c. Color: Custom color selected by Architect.

\*\* OR \*\*

- d. Color: As selected by Architect from manufacturer?s standard color selections.

2. Extruded aluminum post: 6063 alloy, temper T5 meeting ASTM B221 and have a minimum thickness of 0.120".

3. MANUFACTURED UNITS:

- a. Configuration: \*\* Round. \*\* Racetrack. \*\* Oval. \*\* Three quarter-round. \*\* Half-round.

\*\*

Quarter round. \*\* Square. \*\*

INSERT DIAMETER WHERE APPLICABLE. CHOOSE FROM THE FOLLOWING MINIMUMS. CONSULT FACTORY FOR OTHER DIAMETERS.

STAINLESS STEEL - 16 gage (8' tall)=12" 16 gage (12' tall)=15" 14 gage = 13"

PAINTLOCK STEEL - 16 gage (8' tall)=12" 16 gage (12' tall)=13" 14 gage = 12"

ALUMINUM - 12".  
BRASS - 20".

- b. Diameter: \*\* \_\_\_\_\_ \*\*
- c. Joint type: Vertical: Soft V Butt joint with interlocking tape to hold panels together.
- d. Horizontal:
  - 1. Ceiling: \*\* Flush to ceiling. \*\* Adjustable inset reveal. \*\* Through ceiling. \*\*
  - 2. Intermediate: Inset reveal joint.
- e. Floor: \*\* Flush to floor. \*\* Fixed inset base reveal. \*\* Adjustable inset base reveal \*\*

#### 4 FABRICATION

- a. Form column covers to specified dimensions and diameters as indicated on shop drawings.
- b. Provide column covers in sections a maximum 12'-0" tall per section.  
Provide additional sections to achieve finished heights above 12'-0".
- c. Columns shall have no exposed fasteners unless specified.
- d. Provide additional bracing components as necessary to stiffen substructure and insure solid mid-span bracings and connections. (By others)

#### D. SERIES KS - SOFT V BUTT JOINT - MECHANICAL

SELECT FROM THE FOLLOWING. PROVIDE CRITERIA FOR CUSTOM FINISH IF SELECTED.

- 1. Stainless steel: Type 304 stainless steel, complying with ASTM A789.
  - a. Thickness: \*\* 14 \*\* 16 \*\* gage.
  - b. Finish: \*\* Brushed #4. \*\* Polished #8. \*\* Custom. \*\*
- 1. Aluminum sheet and plate: Type 3003-H14, 5005-H34 (anodized) or 5052-H32 alloy complying with ASTM B209.
  - a. Thickness: \*\* 0.090". \*\* 0.125". \*\*
  - b. Finish: \*\* Clear anodized. \*\* Polyurethane paint. \*\* Kynar 500 Paint - Fluoropolymer. (Available with .125" thickness only) \*\* Enamel. \*\* Valspar Azores \*\* Primed for field finishing. \*\*
  - c. \*\* Color:\*\* Custom color selected by Architect.

\*\* OR \*\*

  - d. \*\* Color: As selected by Architect from manufacturer's standard color selections. \*\*
- 1 Brass sheet: Alloy C280, Muntz metal alloy 280.
  - a. Thickness: 0.063".
  - b. Finish: \*\* Polished. \*\* Brushed. \*\*
- 1. Galvanized steel: Commercial grade electro- galvanized steel meeting ASTM A525, Coating Designation A-40 or A-60 with surfaces chemically treated for paint adhesion in accord with ASTM D2092, Method A, crystalline zinc phosphate treatment.
  - a. Thickness: \*\* 14 \*\* 16 \*\* gage.
  - b. Finish: \*\* Primer ready \*\* Polyurethane. \*\* Powder Coated \*\*

RETAIN COLOR WITH POLYURETHANE FINISH.

- c. Color: Custom color selected by Architect.

\*\* OR \*\*

- d. Color: As selected by Architect from manufacturer's standard color selections.

2. Formed steel posts: SERIES KS REQUIRES POSTS BE PROVIDED BY OTHERS,  
OR POSTS CAN OPTIONALLY BE SUPPLIED BY FACTORY.

3. MANUFACTURED UNITS:

- a. Configuration: \*\* Round. \*\* Racetrack. \*\* Oval. \*\* Three quarter-round. \*\* Half-round.

\*\*

Quarter round. \*\* Square. \*\*

INSERT DIAMETER WHERE APPLICABLE. CHOOSE FROM THE FOLLOWING MINIMUMS.  
CONSULT FACTORY FOR OTHER DIAMETERS.

STAINLESS STEEL - 16 gage (8' tall)=10" 16 gage (12' tall)=15" 14 gage = 13"

PAINTLOCK STEEL - 16 gage (8' tall)=10" 16 gage (12' tall)=13" 14 gage = 12"

ALUMINUM - 12".

BRASS - 20".

- b. Diameter: \*\* \_\_\_\_\_. \*\*

- c. Joint type: Vertical: Soft V Butt joint with mechanical key slot design to hold covers in place.

- d. Horizontal:

1. Ceiling: \*\* Flush to ceiling. \*\* Adjustable inset reveal. \*\* Through ceiling. \*\*

2. Intermediate: \*\* Inset reveal joint. \*\* Butt joint with factory supplied alignment plates. \*\*

- e. Floor: \*\* Flush to floor. \*\* Fixed inset base reveal. \*\*

4. FABRICATION

- a. Form column covers to specified dimensions and diameters as indicated on shop drawings.

- b. Provide column covers in \*\* fixed \*\* detachable \*\* sections in a maximum 12'-0" tall per section.

Provide additional sections to achieve finished heights above 12'-0".

- c. Columns shall have no exposed fasteners unless specified.

- d. Provide additional bracing components as necessary to stiffen substructure and insure solid

mid-

span bracings and connections. (By others)

E. SERIES FF - FIELD FINISHED TAPED AND SPACKLED JOINT

SELECT FROM THE FOLLOWING. PROVIDE CRITERIA FOR CUSTOM FINISH IF SELECTED.

1. Aluminum sheet and plate: Type 3003-H14 or 5052-H32 alloy complying with ASTM B209.

- a. Thickness: \*\* 0.090". \*\* 0.125". \*\*

- b. Finish: Primed for field finishing.

\*\* OR \*\*

Designation 1. Galvanized steel: Commercial grade electro- galvanized steel meeting ASTM A525, Coating  
Method A-40 or A-60 with surfaces chemically treated for paint adhesion in accord with ASTM D2092,  
A, crystalline zinc phosphate treatment.  
a. Thickness: \*\* 14 \*\* 16 \*\* gage.  
b. Finish: Primer ready

optionally 2. Formed steel posts: Minimum 18 gage hot-dip galvanized or electro-galvanized steel posts are  
available from factory

3. MANUFACTURED UNITS:

\*\* a. Configuration: \*\* Round. \*\* Racetrack. \*\* Oval. \*\* Three quarter-round. \*\* Half-round.  
Quarter round. \*\* Square. \*\*

INSERT DIAMETER WHERE APPLICABLE. CHOOSE FROM THE FOLLOWING MINIMUMS.  
CONSULT FACTORY FOR OTHER DIAMETERS.

PAINTLOCK STEEL - 16 gage (8' tall)=10" 16 gage (12' tall)=13" 14 gage = 12"

ALUMINUM - .090" (8' tall)=10" .090" (12' tall)= 12" .125" (12' tall)=11"

b. Diameter: \*\* \_\_\_\_\_ \*\*

c. Joint type: Monolithic field finished, taped and finished.

d. Horizontal:

1. Ceiling: \*\* Flush to ceiling. \*\* Adjustable inset reveal. \*\* Through ceiling. \*\*

2. Intermediate: \*\* Inset reveal joint. \*\* Butt joint with factory supplied alignment plates. \*\*

e. Floor: \*\* Flush to floor. \*\* Fixed inset base reveal. \*\*

4 FABRICATION

mid- a. Form column covers to specified dimensions and diameters as indicated on shop drawings.  
b. Provide column covers in sections a maximum 12'-0" tall per section.  
Provide additional sections to achieve finished heights above 12'-0".  
c. Columns shall have no exposed fasteners unless specified.  
d. Provide additional bracing components as necessary to stiffen substructure and insure solid  
span bracings and connections. (By others)

F. SERIES EX - EXTRUDED ROUND WITH BUTT JOINT

SELECT FROM THE FOLLOWING. PROVIDE CRITERIA FOR CUSTOM FINISH IF SELECTED.

(Available 1. Aluminum extrusion: Type 6063-T5 alloy complying with ASTM B209.  
a. Thickness: 0.125"  
b. Finish: \*\* Clear anodized. \*\* Polyurethane paint. \*\* Kynar 500 Paint - Fluoropolymer.  
with .125" thickness only) \*\* Enamel. \*\* Valspar Azores \*\* Primed for field finishing. \*\*  
c. \*\* Color:\*\* Custom color selected by Architect.

\*\* OR \*\*



- c. \*\* Color: As selected by Architect from manufacturer's standard color selections. \*\*

RETAIN COLOR WITH POLYURETHANE FINISH.

- d. Color: Custom color selected by Architect.

\*\* OR \*\*

- d. Color: As selected by Architect from manufacturer's standard color selections.

- 2. Formed steel posts: Not required with Series EX column covers.

3. MANUFACTURED UNITS:

- a. Configuration: \*\* Round. \*\* Half-round. \*\*
- b. Diameter: \*\* 7" \*\* 8" \*\*
- c. Joint type: Vertical: Butt joint with interlocking tape to hold covers in place.
- d. Floor: Flush to floor.

4. FABRICATION

- a. Form column covers to specified dimensions and diameters as indicated on shop drawings.
- b. Provide column covers in sections a maximum 12'-0" tall per section..  
Provide additional sections to achieve finished heights above 12'-0".
- c. Columns shall have no exposed fasteners unless specified.
- d. Provide additional bracing components as necessary to stiffen substructure and insure solid

mid-

span bracings and connections. (By others)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine job-site conditions for conditions that may adversely affect installation of column covers.
- B. Verify dimensions of column covers prior to installation to assure compatibility with job-site conditions.
- C. Verify post structure is plumb, level, and parallel prior to installation of column covers.
- D. Visually examine finished surfaces to assure that blemished or dented surfaces are not present prior to installation.

3.2 PREPARATION

- A. Verify/coordinate with other trades prior to installation insofar as they are affected by column cover installation.

3.3 INSTALLATION

- A. Install components in accord with manufacturer's installation instructions and approved shop drawings.
- B. Anchor components to related structures such as floors, walls and beams as indicated on approved shop

drawings. Use anchors with holding strength to provide a solid installation. Use only plated, galvanized or stainless steel anchors.

#### 3.4 CLEANING

- A. Remove protective coverings and clean column covers to remove adhesives and tape residue. Test all solvents on non-exposed surfaces prior to use.
  - 1. For painted surfaces, use a mild detergent solution on a soft cloth.
  - 2. For stainless steel, use a glass cleaner and a soft cloth.
  - 3. For other surfaces, contact manufacturer for proper cleaning procedures.
- B. Visually inspect all exposed surfaces for scratches or blemishes.
- C. Protect column covers from damage during remainder of construction period.

END OF SECTION