

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 manufacturer's 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

Local Contact: Arcspec, 225 Peterson Rd., Libertyville, IL 60048, phone: 847-362-1590,  
fax: 847-362-1557

## 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. \*\*
  
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 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. \*\*
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. 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.

- 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. 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 \*\*

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

#### F. SERIES EX - EXTRUDED ROUND WITH BUTT JOINT

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

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. (Available 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