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This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

This guide specification section has been prepared by C.R. Laurence Co., Inc. for use in the preparation of a project specification section covering the 8010 Single Blade Sunshade for exterior openings.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are contained in blue, e.g.:

 [www.crlaurence.com](http://www.crlaurence.com)

Optional text requiring a selection by the user is enclosed within brackets and as red text, e.g.: Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and as red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

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

For assistance in the use of products in this section, contact C.R. Laurence Co., Inc. by calling 800-421-6144 or visit their website at [www.crlaurence.com](http://www.crlaurence.com).

This specification has been prepared based on *SimpleSpecs*™ specification templates. The *SimpleSpecs*™ Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on *SimpleSpecs*™ products visit the ZeroDocs.com website at www.zerodocs.com.

**SECTION 10 71 13 – FIXED SUNSHADES**

 GENERAL

 SUBMITTALS

 Action Submittals:

 Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

 Product Data: Manufacturer’s descriptive data and product attributes.

 Samples: [Selection samples.] [Verification samples.]

 Informational Submittals:

 Certificate of Compliance: Certification that installed products meet specified design and performance requirements.

 QUALITY ASSURANCE

 Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

 Mockup: [One sunshade module.] [Minimum [\_\_ x \_\_] feet.] Approved mockup [may] [may not] remain as part of the Work.

 SYSTEM DESCRIPTION

 Design Requirements:

 Design wind pressure: In accordance with [ASCE 7.] [Building Code.] [\_\_\_\_.]

 Movement: Ambient temperature range of [120] [\_\_] degrees F and a surface temperature range of [160] [\_\_] degrees F.

 System design to be performed by qualified professional engineer licensed in State of [\_\_\_\_].

 Performance Requirements:

* + - 1. Sunshade system: Meet or exceed AAMA 514 requirements.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by C.R. Laurence Co., Inc. [www.crlaurence.com](http://www.crlaurence.com)

 Substitutions: [Refer to Division 01.] [Not permitted.]

 COMPONENTS

 Sunshade System:

 Source: CRL 8010 Single Blade Sunshade.

 Blade splice: [Oval.] [Rectangular.]

 Blade style: [Oval.] [Rectangular.]

 Blade depth: 12 inches.

Select the first option below for oval blades and the second option for rectangular blades.

 Allow for multiple blade angles from [minus 35 to plus 35] [0 to plus 35] degrees in 5 degree increments.

 Brackets: Manufacturer’s standard airfoil connection brackets, shaped to blade profile.

 Blade end caps: Shaped to blade profile.

* 1. MATERIALS

 Aluminum:

 Extrusions: ASTM B221.

 Sheet: ASTM B209.

 Castings: ASTM B85.

 ACCESSORIES

* + 1. Fasteners: Type 18-8 or Series 316 stainless steel.

 FINISHES

Retain the following for mill (unfinished) aluminum.

 Aluminum: Mill.

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

Retain the following for clear anodized aluminum.

 Aluminum: AAMA 611, Architectural Class I anodized, [clear.] [dark bronze.]

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

Retain the following for PVDF coated aluminum.

 Aluminum: AAMA 2605, fluoropolymer coating, minimum 70 percent PVDF resins, [\_\_\_\_] color [to be selected from manufacturer's full color range].

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

Retain the following for powder coated aluminum.

 Aluminum: AAMA 2604, fluoropolymer coating, minimum 50 percent PVDF resins, [\_\_\_\_] color [to be selected from manufacturer's full color range].

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer's instructions and approved Shop Drawings.

 Installation Tolerances:

 Maximum variation from level: Plus or minus [1/8] [\_\_] inch in 20 feet, noncumulative.

 Maximum offset from true alignment of between members butting or in-line: [1/32] [1/16] inch.

END OF SECTION