3-PART CSI MASTERFORMAT SPECIFICATION

SECTION 10 2600 WALL AND DOOR PROTECTION

# GENERAL

## SECTION INCLUDES

### Corner Guards

### Crash Rails and Bumper Guards

### Handrails

### Protective Wall covering

## SUBMITTALS

### Comply with requirements of Section 01 33 00 Submittals.

### Product data: Submit manufacturer’s product data.

### Shop drawing: Submit shop drawings showing components, dimensions, anchorage details.

### Samples for selection and verification of product pattern and finish.

## QUALITY ASSURANCE

### Design and Performance Criterial

### Flammability Characteristics: High impact vinyl components.

### Class A Interior wall finish (NFPA 101 Life Safety) when tested in accordance with ASTM E84.

### Flame Spread: 25 or less

### Smoke Developed: 450 or less

### Classification of HB when tested in accordance with ASTM D635.

### Stain Resistance: High impact vinyl components.

### Material to be tested for stain resistance to various chemical reagents in accordance with ASTM D543.

### Bacterial and Fungal Growth: High impact vinyl components.

### Material must not support bacteria or fungal growth when tested in accordance with ASTM G21 and ASTM G22

### Impact Resistance: High impact vinyl components.

### Extruded profiles shall resist damage from impact at apex of 90° corner when tested in accordance with applicable sections of ASTM F476.

### Izod impact strength ASTM D256 method A notched, 23.8 ft-lbs/in average with no break.

### Charpy impact strength ASTM D6110 notched, 26.1 ft-lbs/in average with

### Single source responsibility: Provide all product systems components from a single source.

## DELIVERY, STORAGE AND HANDLING

### Delivery: Deliver materials to site in manufacturer’s original, unopened containers and packaging with labels clearly indicating manufacturer and material.

### Storage: Store materials indoors in a clean, dry area protected from damage where temperature and humidity remain stable and within 40F (4C) to 100F (38C). Materials must be stored flat.

### Handling: Protect materials during handling and installation to prevent damage

## PROJECT CONDITIONS

### Environmental conditions: Do NOT install wall surface protection systems until the installation area is enclosed and weatherproof, and until the ambient temperature within the building is maintained at not less than 70F (21C) for not less than 72 hours prior to installation.

### Installation locations must be enclosed weatherproofed, and climate controlled prior to commencing installation.

## WARRANTY

### Submit supplier’s written warranty against defects in material and workmanship.

# Products

## Manufacturer

Nystrom, Inc.

9300 73rd Avenue North

Minneapolis, MN 55428

Phone: 800.547.2635

1. Products

Retain one or more of the following paragraphs below to meet project requirements.

### Corner Guards

#### Stainless Steel Corner Guards: Model CGS **[Surface mount] [Recess Mount]** fabricated from one-piece, formed metal with formed edge

##### Material: **[Type 304] [Type 430]** Stainless Steel, 16 Gauge with rounded edges, Satin No. 4 finish

##### Wing Size; as specified between 1 inch (25.4 mm) and 3 inches (76 mm)

##### Corner Angle: **[90 degree] [135 degree] [contact manufacturer for additional options]**

##### Mounting: **[Adhesive] [pre-drilled with mounting screws]**

##### Option: embossed patterns available in Type 304

#### Stainless Steel Corner End Wall Guards: Model CGS-EW Surface mount Fabricated from one-piece, formed metal with formed edge

#### Material: **[Type 304] [Type 430]** Stainless Steel, 16 Gauge with rounded edges, Satin No. 4 finish

#### Wing Size; as specified between 1 inch (25.4 mm) and 3 inches (76 mm)

#### End wall size: as specified

#### Corner Radius: **[90 degree] [135 degree]**

#### Mounting: Adhesive

#### Vinyl Corner Guards**:** Model CGV **[Surface mount] [Recess Mount]**

##### Cover Material: high impact vinyl acrylic extrusion locked in place.

##### Retainer material: continuous 6063-T5 aluminum

### Optional Retainer: Vinyl

##### Wing Size: **[2 inches (50 mm)] [3 inches (76 mm)]**

##### Corner Angle: **[90 degree] [135 degree]**

##### Color: to be selected from manufacturer options

#### Vinyl Corner End Wall Guards**:** Model CGV-EW **[Surface mount] [Recess Mount]**

#### Cover Material: high impact vinyl acrylic extrusion locked in place.

#### Retainer material: continuous 6063-T5 aluminum

#### Optional Retainer: Vinyl

#### Wing Size: **[2 inches (50 mm)] [3 inches (76 mm)]**

#### End wall size: as specified

#### Corner Angle: **[90 degree] [135 degree]**

##### Color: to be selected from manufacturer options

#### Vinyl Bull Nose Corner Guards**:** Model CGVS3B **[Surface mount] [Recess Mount]**

##### Cover Material: high impact vinyl acrylic extrusion locked in place.

##### Retainer material: continuous 6063-T5 aluminum

##### Wing Size**: 3 inches (76 mm)**

##### Corner Radius: 15/16 inches (24 mm)

##### Color: to be selected from manufacturer options

#### Extruded Vinyl Corner Guards**:** Model CGVESurface mount

#### Cover Material: high impact vinyl acrylic extrusion

#### Wing Size: **[3/4 inches (19 mm)] [1 ½ inches (38.1 mm)] [3 inches (76.2 mm)]**

#### Length:  **[48 inches (1219 mm][96 inches (2438 mm)]**

#### Corner:  **[90 degree] [135 degree]**

#### Mounting**:  [adhesive mounting] [pre-drilled and countersunk holes for use with mechanical fasteners] [factory applied double coated adhesive tape]**

#### Color: to be selected from manufacturer options

#### Fire-rated Vinyl Recess Mount corner guard: Model CGVF

##### Cover Material: high impact vinyl acrylic extrusion locked in place.

##### Retainer material: continuous 6063-T5 aluminum

##### Fire Rating: **[1 hour] [2 hour]**

##### Wing Size: **[2 inches (50 mm)] [3 inches (76 mm)]**

##### Corner Angle: **[90 degree] [135 degree]**

##### Color: to be selected from manufacturer options

#### Fire-rated Vinyl Bull Nose Recess Mount corner guard: Model CGVFB

##### Cover Material: high impact vinyl acrylic extrusion locked in place.

##### Retainer material: continuous 6063-T5 aluminum

##### Fire Rating: **[1 hour] [2 hour]**

##### Wing Size: **3 inches (76 mm)**

##### Corner Radius: 15/16 inches (24 mm)

##### Color: to be selected from manufacturer options

#### Fire-Rated Vinyl Corner End Wall Guards**:** Model CGVF-EW **[Surface mount] [Recess Mount]**

##### Cover Material: high impact vinyl acrylic extrusion locked in place.

##### Retainer material: continuous 6063-T5 aluminum

##### Fire Rating: **[1 hour] [2 hour]**

##### Wing Size: **[1 5/8 inches (41mm)]**

#### End wall size: as specified

##### Corner Angle: **90 degree**

##### Color: to be selected from manufacturer options

### Crash Rails and Bumper Guards

#### Stainless Steel Crash Rails: Model CRSS

##### Cover Material: 16 Gauge, Type 304 Stainless Steel, Satin No. 4 finish

##### Retainer: Wood rail

##### Size: **[4 inches (101 mm)] [5 1/2 inches (139.7 mm)]**

##### Mounting: Surface mount

##### Option: 5 1/2 inches (139.7 mm) with V-Groove cover

#### Stainless Steel Crash Rails: Model CRSE

##### Cover Material: ¼ inch (35.6 mm) Type 304 Stainless Steel, Satin No. 4 finish

##### Mounting Brackets: 6063-T5 aluminum

##### Sizes: **[4 inches (101 mm)] [5 inches (127 mm)]**

##### Mounting: Extended Mount

##### Bracket options: **[2.75 inch (69.8 mm) square] [2 inch (50.8 mm) I-beam] [3 inch (76.2 mm) I-beam]**

#### Vinyl Crash Rails Model CRV: mounted over continuous aluminum retainer. Exposed surfaces shall be free of wrinkling, chipping, discoloration, or other imperfections.

##### Cover Material: high impact vinyl acrylic extrusion locked in place

##### Retainer material: continuous 6063 T-5 aluminum retainer

##### Sizes: **[4 inches (101 mm)] [5 inches (127 mm)] [6 inches (152.4 mm)] [7.75 inches (197 mm)] [8 inches (203.2 mm)]**

#### Mounting Options: **[Surface mount 1/2 inch (12.7 mm) cushion] [extended mount 1-3/4 inch (45mm)]**

#### Color: to be selected from manufacturer options

#### 1½ inch (38.1 mm) Vinyl bumper guard model BGVS15C

#### Cover Material: Flexible vinyl acrylic extrusion

#### Retainer: Exposed Continuous aluminum retainer

#### Size: 1 ½ inches (38.1 mm)

#### Mounting: surface

#### Color: To be selected from manufacturers color options

#### 2 inch (50.8 mm) Vinyl bumper guard model BGVS2C

#### Cover Material: High impact vinyl acrylic extrusion locked into place

#### Retainer: Continuous plastic retainer, nominal)

#### Size: 2 inches (50.8 mm)

#### Mounting: surface

#### Option ½ inch (12.7 mm) cushion

#### Color: To be selected from manufacturers color options

#### 4-1/8 inch (105 mm) Vinyl bumper guard model BGVS4125C

#### Cover Material: High impact vinyl acrylic extrusion locked into place

#### Retainer: Continuous aluminum retainer

#### Size: 4-1/8 inches (105 mm)

#### Mounting: ½ inch (12.7 mm) cushion

##### Color: To be selected from manufacturers color options

### Handrails

#### Vinyl Hand rail Model HRVE15: mounted over continuous aluminum retainer. Exposed surfaces shall be free of wrinkling, chipping, discoloration, or other imperfections.

##### Cover Material: high impact resistant vinyl acrylic extrusion locked in place

##### Retainer material: continuous 6063 T-6 aluminum retainer

##### Size: 1 1/2 inches (38.1 mm)

#### Mounting: [extended mount 1 ½ inch (38mm)

#### Color: To be selected from manufacturers color options

#### Vinyl Hand rail Models HRVE55, mounted over continuous aluminum retainer. Exposed surfaces shall be free of wrinkling, chipping, discoloration, or other imperfections.

##### Cover Material: high impact resistant vinyl acrylic extrusion locked in place

##### Retainer material: continuous one-piece, extruded aluminum retainer

##### Sizes**:** 5 1/2 inches (139.7 mm)

#### Mounting: extended mount 1 ½ inch (38mm)

#### Color: to be selected from manufacturer color options

#### Vinyl Hand rail with accent strip Model HRVE625: mounted over continuous aluminum retainer. Exposed surfaces shall be free of wrinkling, chipping, discoloration, or other imperfections.

##### Cover Material: Oval with 2 inch (50.8mm) accent strip high impact resistant vinyl acrylic extrusion locked in place

##### Retainer material: continuous 6063 T-5 aluminum retainer

##### Height: 5 1/2 inches (139.7 mm)

##### Width:1 1/2 inches (38.1 mm)

##### Mounting Options: extended mount 1 ½ inch (38mm)

##### Color: To be selected from manufacturers color options

### Protective Wall Covering

#### Stainless Steel Wall Covering Model WCS

##### Material: Stainless Steel Type 304 finish

##### Thickness: 16 gauge

#### Vinyl wall covering; rigid high impact sheet Model WCV

##### Material: Chemical and stain resistant high-impact acrylic modified vinyl plastic sheets

##### Thickness: **[0.040 inch (1.02 mm)] [0.060 inch (1.52 mm)]**

##### Size: **[4 foot x 8 foot (121.92 cm x 243.84 cm) sheet]** **[4 foot x 10 foot (121.92 cm x 304.8 cm) sheet] [4 foot x 120 foot (121.92 cm x 3658 cm) roll]**

##### Fire Rating: Class A

# EXECUTION

1. Examination
   1. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected
2. Preparation
   1. Surface preparation: Prior to installation, clean surface to remove dirt, debris and loose particles. Perform additional preparation procedures as required per the manufacturer’s instructions
3. Installation
   1. Install the work of this section in strict accordance with manufacture’s written instruction
4. Clean up Completion
   1. Upon completion of the work, remove excess materials, debris and rubbish resulting from the installation and leave the area in a clean and orderly condition

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