

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Vinyl siding.
- B. Vinyl soffits.
- C. Vinyl trim and accessories.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Framing and sheathing.
- B. Section 07260 - Vapor Retarders.
- C. Section 07900 - Joint Sealers.

1.3 REFERENCES

- A. ASTM D 256 - Test Method for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.
- B. ASTM D 635 - Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supported Plastics in a Horizontal Position.
- C. ASTM D 638 - Test Method for Tensile Properties of Plastics.
- D. ASTM D 648 - Test Method for Deflection Temperature of Plastics Under Flexural Load.
- E. ASTM D 696 - Test Method for Coefficient of Linear Expansion of Plastics.
- F. ASTM D 1929 - Test Method for Ignition Properties of Plastics.
- G. ASTM D 2843 - Test Method for Density of Smoke from the Burning or Decomposition of Plastics.
- H. ASTM D 3679 - Specification for Rigid Poly Vinyl Chloride (PVC) Siding.
- I. ASTM D 4226 - Test Methods for Impact Resistance of Rigid Poly Vinyl Chloride (PVC) Building Products.
- J. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.
- K. ASTM C 272 – Test Method for Water Absorption of Core Materials for Structural Sandwich Construction.
- L. ASTM C 303 – Test Method for Dimensions and Density of Performed Block- Type Thermal Insulation.
- M. ASTM C 578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Maintain rigorous production quality control standards to ensure that vinyl siding will perform as expected for its intended use. Products meet or exceed the requirements of ICC and VSI and listed by ICC International Code Council and VSI Vinyl Siding Certification Programs.
- B. Installer Qualifications: Installer with not less than three years documented experience with products specified or who has passed the Vinyl Siding Institute's (VSI) Certified Installer Program.
- C. Mock-Up: Provide a mock-up for evaluation of surface installation techniques and workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Reinstall mock-up area as required to produce acceptable work.
- D. Regulatory Compliance:
 - 1. 2009 International Building Code (IBC) – ESR-1083
 - 2. 2009 International Residential Code (IRC)
 - 3. BOCA National Building Code/ 1999 (BNBC)
 - 4. 1999 Standard Building Code (SBC)
 - 5. 1997 Uniform Building Code (UBC)
 - 6. HUD – FHA Minimum Property Standards
 - 7. Texas Department of Insurance – EC01
 - 8. State of Florida Approval – FL 2495-R1, FL 13692, FL 14400, FL 14402

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store vinyl siding, soffits, and accessories in clean, dry area, where temperatures do not exceed 130 degrees F.
- C. Handle material to prevent damage. Do not allow cartons to crease.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

- A. Provide manufacturer's Transferable, Limited Lifetime Warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Exterior Portfolio 1441 Universal Rd. P.O. Box 1058 Columbus, Ohio 43216 Toll Free Tel: 800-366-8472; Tel: 614-443-4841 ; Email: epquestions@exteriorportfolio.com; Web: www.exteriorportfolio.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

- A. Siding and Soffit - General Requirements: Polyvinyl Chloride Characteristics:

Impact Strength @ 74°F	2.12 ft. lb./in. of notch (ASTM D 256)
Impact Strength @ 32°F	1.80 ft. lb./in. of notch (ASTM D 256)
Tensile Strength	7331 psi (ASTM D 638)
Modulus of Elasticity	403308 psi (ASTM D 638)
Coefficient of Linear Expansion	3.17 x 10 ⁻⁵ in./in. °F (ASTM D 696)
Warp	<1/8 in. (ASTM D 3679)
Heat Shrinkage	0.00 (ASTM D 3679)
Surface Distortion	No distortion at 120°F (ASTM D 3679)
<u>Fire Resistance Characteristics:</u>	
Average Time of Burning	<5 sec. (ASTM D 635)
Average Extent of Burning	9.4 mm (ASTM D 635)
Flame Spread	15 (ASTM E 84)
Smoke Density	460 (ASTM E 84)
Ignition Properties	Self Ignition did not occur. At 797°F sample began to smolder and continued until consumed (ASTM D 1929)
Radiant Panel Test	Products met the conditions for allowable use as specified in section 1406 of the International Building Code. (NFPA 268)
<u>Foam Backed Siding:</u>	
Polystyrene Density	1.0 lb./cu.ft. (ASTM C 303)
System R-Value	Up to 2.5* (ASTM C 1363)
	* R-Values vary slightly depending upon profile.
Water Permeability	Not less than 5.0 perm/inch maximum (ASTM E 96)
Water Absorption for Expandable Polystyrene	<2.75% by volume (ASTM C 272)
Impact Resistance	216 in.-lb. (ASTM D 4226)

2.3 SOLID CORE SIDING

- A. CraneBoard 7 Solid CoRe Siding
 1. Double 7" profile
 2. Panel projection: 1-1/8"
 3. Panel length: 12' 3"
 4. Panel exposure 14"
 5. Finish: True Milled
 6. Sound Performance: STC of 16 and an OITC of 12.
 7. Smart Track™ System engineered ridges and tracks in foam for ventilation and moisture management.
 8. interlocking seam system.
 9. Double fastening slots for using optional pneumatic stapler.
 10. TXL Lamination Technology.
 11. Wind resistance up to 200 mph.
 12. Color: As selected by Architect from manufacturers standards

- B. CraneBoard 6 Solid CoRe Siding
 1. Triple 6" profile
 2. Panel projection: 1-1/8"
 3. Panel length: 12' 1"
 4. Panel exposure 18"
 5. Finish: True Milled
 6. Sound Performance: STC of 16 and an OITC of 12.
 7. Smart Track™ System engineered ridges and tracks in foam for ventilation and moisture management.
 8. interlocking seam system.
 9. TXL Lamination Technology.
 10. Wind resistance up to 185 mph.
 11. Color: As selected by Architect from manufacturers standards

- C. CraneBoard 6 - 16' Solid CoRe Siding
 1. Triple 6" profile
 2. Panel projection: 1-1/8"
 3. Panel length: 16' 4"
 4. Panel exposure 18"
 5. Finish: True Milled
 6. Sound Performance: STC of 16 and an OITC of 12.
 7. interlocking seam system.
 8. TXL Lamination Technology.
 9. Wind resistance up to 185 mph.
 10. Color: As selected by Architect from manufacturers standards

- D. CraneBoard Board and Batten Solid CoRe Siding
 1. Double 10" profile
 2. Panel projection: 1-1/8"
 3. Panel length: 10'
 4. Panel exposure 19 1/2"
 5. Finish: True Milled
 6. Sound Performance: STC of 16 and an OITC of 12.
 7. Double thickness nailing hem.
 8. TXL Lamination Technology.
 9. Wind resistance up to 150 mph.
 10. Color: As selected by Architect from manufacturers standards

- E. Oracle Dutchlap Solid CoRe Siding
 1. Quad 4 ½" profile
 2. Panel projection: 1-1/8"
 3. Panel length: 12' 1"
 4. Panel exposure 18"
 5. Finish: True Milled
 6. Sound performance: STC of 16 and an OITC of 12.
 7. Smart Track™ System engineered ridges and tracks in foam for ventilation and moisture management.
 8. interlocking seam system.
 9. TXL Lamination Technology.
 10. Wind resistance up to 180 mph.
 11. Color: As selected by Architect from manufacturers standards

- F. Oracle Clapboard Solid CoRe Siding
 1. Quad 4" profile
 2. Panel projection: 1-1/8"
 3. Panel length: 12' 6"
 4. Panel exposure 16"
 5. Finish: True Milled
 6. Sound Performance: STC of 16 and an OITC of 12.
 7. interlocking seam system.
 8. TXL Lamination Technology.
 9. Wind resistance up to 180 mph.
 10. Color: As selected by Architect from manufacturers standards

2.4 VINYL SIDING

- A. Premium Pointe 360 – D4" - Clapboard
 1. Double 4" profile
 2. Panel Projection: ¾"
 3. Panel Length: 12' 6"
 4. Panel exposure: 8"
 5. Finish: True Milled
 6. Nominal thickness: .046"
 7. .092" full rollover Hurricrane nailing hem
 8. Hurricrane locking system
 9. Color: As selected by Architect from manufacturers standards

- B. Premium Pointe 360 – D4" Clapboard – 16'
 1. Double 4" profile
 2. Panel Projection: ¾"
 3. Panel Length: 16' 8"
 4. Panel exposure: 8"
 5. Finish: True Milled
 6. Nominal thickness: .046"
 7. .092" full rollover Hurricrane nailing hem
 8. Hurricrane locking system
 9. Color: As selected by Architect from manufacturers standards

- C. Premium Pointe 360 – D4.5" Dutchlap
 1. Double 4 ½" profile
 2. Panel projection: ¾"
 3. Panel length: 12' 1"
 4. Panel exposure: 9"
 5. Finish: True Milled
 6. Nominal thickness: .046"
 7. .092" full rollover Hurricrane nailing hem
 8. Hurricrane locking system
 9. Color: As selected by Architect from manufacturers standards

- D. Premium Pointe 360 – D4.5” Dutchlap – 16’
 - 1. Double 4 ½” profile
 - 2. Panel projection: ¾”
 - 3. Panel length: 16’ 6”
 - 4. Panel exposure: 9”
 - 5. Finish: True Milled
 - 6. Nominal thickness: .046”
 - 7. .092” full rollover Hurricane nailing hem
 - 8. Hurricane locking system
 - 9. Color: As selected by Architect from manufacturers standards

- E. Market Square – D4” - Clapboard
 - 1. Double 4” profile
 - 2. Panel projection: 5/8”
 - 3. Panel length: 12’ 6”
 - 4. Panel exposure: 8”
 - 5. Finish: Cedar Grain
 - 6. Nominal thickness: .044”
 - 7. WindBreaker rolled-over nailing hem
 - 8. Integra locking system
 - 9. Color: As selected by Architect from manufacturers standards

- F. Market Square – D4.5” - Dutchlap
 - 1. Double 4 ½” profile
 - 2. Panel projection: 5/8”
 - 3. Panel length: 12’ 1”
 - 4. Panel exposure: 9”
 - 5. Finish: Cedar Grain
 - 6. Nominal thickness: .044”
 - 7. WindBreaker rolled-over nailing hem
 - 8. Integra locking system
 - 9. Color: As selected by Architect from manufacturers standards

- G. Market Square – D5” - Clapboard
 - 1. Double 5” profile
 - 2. Panel projection: 5/8”
 - 3. Panel length: 12’
 - 4. Panel exposure: 10”
 - 5. Finish: Cedar Grain
 - 6. Nominal thickness: .044”
 - 7. WindBreaker rolled-over nailing hem
 - 8. Integra locking system
 - 9. Color: As selected by Architect from manufacturers standards

- H. Carolina Sands - 6 ½” Beaded
 - 1. Single 6 ½” profile
 - 2. Panel projection: 5/8”
 - 3. Panel length: 12’ 4”
 - 4. Panel exposure: 6 ½”
 - 5. Finish: Soft brushed
 - 6. WindBracer nailing hem
 - 7. Nominal thickness: .044”
 - 8. Color: As selected by Architect from manufacturers standards

- I. Parkview – D4” Clapboard
 - 1. Double 4” profile
 - 2. Panel projection: ½”
 - 3. Panel length: 12’ 6”
 - 4. Panel exposure: 8”
 - 5. Finish: Low Luster Cedargrain
 - 6. Nominal thickness: .042”
 - 7. Color: As selected by Architect from manufacturers standards

- J. Parkview – D4” Dutchlap
 - 1. Double 4” profile
 - 2. Panel projection: ½”
 - 3. Panel length: 12’ 6”
 - 4. Panel exposure: 8”
 - 5. Finish: Low Luster Cedargrain
 - 6. Nominal thickness: .042”
 - 7. Color: As selected by Architect from manufacturers standards

- K. Parkview – D5” Clapboard
 - 1. Double 5” profile
 - 2. Panel projection: ½”
 - 3. Panel length: 12’
 - 4. Panel exposure: 10”
 - 5. Finish: Low Luster Cedargrain
 - 6. Nominal thickness: .042”
 - 7. Color: As selected by Architect from manufacturers standards

- L. Parkview – D5” Dutchlap
 - 1. Double 5” profile
 - 2. Panel projection: ½”
 - 3. Panel length: 12’
 - 4. Panel exposure: 10”
 - 5. Finish: Low Luster Cedargrain
 - 6. Nominal thickness: .042”
 - 7. Color: As selected by Architect from manufacturers standards

- M. American Dream Edge D4” Clapboard
 - 1. Double 4” profile
 - 2. Panel projection: ½”
 - 3. Panel length: 12’ 6”
 - 4. Panel exposure: 8”
 - 5. Finish: True-grain
 - 6. Nominal thickness: .040”
 - 7. WindBracer nailing hem
 - 8. SlipStop locking system
 - 9. Color: As selected by Architect from manufacturers standards

- N. American Dream Edge D4” Dutchlap
 - 1. Double 4” profile
 - 2. Panel projection: ½”
 - 3. Panel length: 12’ 6”
 - 4. Panel exposure: 8”
 - 5. Finish: True-grain
 - 6. Nominal thickness: .040”
 - 7. WindBracer nailing hem
 - 8. SlipStop locking system
 - 9. Color: As selected by Architect from manufacturers standards

- O. American Dream Edge D5” Dutchlap
 - 1. Double 5” profile
 - 2. Panel projection: ½”
 - 3. Panel length: 12”
 - 4. Panel exposure: 10”
 - 5. Finish: True-grain
 - 6. Nominal thickness: .040”
 - 7. WindBracer nailing hem
 - 8. SlipStop locking system
 - 9. Color: As selected by Architect from manufacturers standards

2.5 SOFFIT

- A. Premium Pointe Triple 3 1/3" Solid
 - 1. Non- vented design
 - 2. Triple 3 1/3" profile
 - 3. Panel width: 10"
 - 4. Panel length: 12'
 - 5. Finish: Brushed
 - 6. Nominal thickness: .044"
 - 7. Color: As selected by Architect from manufacturers standards

- B. Premium Pointe Triple 3 1/3" Concealed Vent
 - 1. Concealed Vent design
 - 2. Triple 3 1/3" profile
 - 3. Panel width: 10"
 - 4. Panel length: 12'
 - 5. Finish: Brushed
 - 6. Nominal thickness: .044"
 - 7. Ventilation: 10 square inches per linear foot
 - 8. Color: As selected by Architect from manufacturers standards

- C. Air Flo Triple 4" Solid
 - 1. Non- vented design
 - 2. Triple 4" profile
 - 3. Panel width: 12"
 - 4. Panel length: 12'
 - 5. Finish: Brushed
 - 6. Nominal thickness: .040"
 - 7. Color: As selected by Architect from manufacturers standards

- D. Air Flo Triple 4" Center Vent
 - 1. Center vented punched design
 - 2. Triple 4" profile
 - 3. Panel width: 12"
 - 4. Panel length: 12'
 - 5. Finish: Brushed
 - 6. Nominal thickness: .040"
 - 7. Ventilation: 1.96 square inches per linear foot
 - 8. Color: As selected by Architect from manufacturers standards

- E. Air Flo Triple 4" Full Vent
 - 1. Fully-vented punched design
 - 2. Triple 4" profile
 - 3. Panel width: 12"
 - 4. Panel length: 12'
 - 5. Finish: Brushed
 - 6. Nominal thickness: .040"
 - 7. Ventilation: 5.89 square inches per linear foot
 - 8. Color: As selected by Architect from manufacturers standards

- F. Double 5" Solid
 - 1. Non- vented design
 - 2. Double 5" profile
 - 3. Panel width: 10"
 - 4. Panel length: 12'
 - 5. Finish: Brushed
 - 6. Nominal thickness: .038"
 - 7. Color: As selected by Architect from manufacturers standards

- G. Double 5" Vented
 - 1. Fully- vented punched design
 - 2. Double 5" profile
 - 3. Panel width: 10"
 - 4. Panel length: 12'
 - 5. Finish: Brushed
 - 6. Nominal thickness: .038"
 - 7. Ventilation: 4.78 square inches per linear foot
 - 8. Color: As selected by Architect from manufacturers standards

- H. 6" Beaded Solid
 - 1. Non- vented design
 - 2. Triple 2" beaded profile
 - 3. Panel width: 6"
 - 4. Panel length: 12' 6"
 - 5. 3/8" profile height
 - 6. Finish: Brushed
 - 7. Nominal thickness: .040"
 - 8. Color: As selected by Architect from manufacturers standards

- I. 6" Beaded Concealed Vent
 - 1. Concealed- vent punched design
 - 2. Triple 2" beaded profile
 - 3. Panel width: 6"
 - 4. Panel length: 12' 6"
 - 5. Finish: Brushed
 - 6. Nominal thickness: .040"
 - 7. Ventilation: 1.2 square inches per linear foot
 - 8. Color: As selected by Architect from manufacturers standards

2.6 ACCESSORIES

- A. Solid CoRe Siding Accessories
 - 1. Corner Post: 3 1/4" face width, 10' length, brushed finish, 1 1/8" pocket width.
 - 2. Inside Corner Post: 10' length, brushed finish, 1 1/8" pocket width.
 - 3. J Channel: 12' 6" length, brushed finish, 1" face, 1 1/8" pocket width.
 - 4. Universal J Channel: 12' 6" length, brushed finish, 1" face, 5/8" pocket width.
 - 5. Underlayment Starter Strip: metal, 12' 6" length.
 - 6. Underlayment Starter Strip: Vinyl, 12' 6" length.
 - 7. Finish Board 12' 6" length, brushed finish, 3 1/2" width.
 - 8. Batten Mold Trim (for Board and batten or transitions) 12' 6" length, brushed finish, self flashing.
 - 9. 5 1/2" Corner Post: 5 1/2" face width, 20' length, 1 1/8" pocket width, brushed finish.
 - 10. 3 1/2" Window and Door Lineal: 3 1/2" width, 20' length, 1 1/8" pocket width, brushed finish.
 - 11. Window Sill Lineal: 12' 6" length, 1 1/8" pocket width, brushed finish.
 - 12. Window Crown Molding: 12' 6" length, 1 1/8" pocket width, brushed finish.
 - 13. 5" Window and Door Lineal: 5" width, 20' length, 1 1/8" pocket width, brushed finish.
 - 14. Architectural 3-piece Outside Corner. 3 1/2" or 5" face width, 20' length, 1 1/8" pocket width, brushed finish.
 - 15. Flexible J Channel: 12' 6" length 1 1/8" pocket width, 1" face, smooth finish (white only).
 - 16. Color: _____.

- B. Vinyl Siding Accessories
 1. Corner Post: 3 ¼" face width, 10' length, brushed finish, ¾" pocket width.
 2. Inside Corner Post: 10' length brushed finish, ¾" pocket width.
 3. J Channel: 12' 6" length, brushed finish, 5/8" pocket width, 1" face.
 4. Finish Trim: 12' 6" length, ¾" face width, brushed finish.
 5. Dual Undersill Trim: 12' 6" length, 1" face, brushed finish.
 6. Universal Starter Strip: 12' 6" length, 2 ½" width.
 7. Rigid Steel Starter Strip: 10' length, 2 ½" width.
 8. Flexible J Channel: 12' 6" length, ¾" pocket width, 1" face, smooth finish (white only).
 9. 3 ½" window Lineal: 3 ½" face width, 20' length, ¾" pocket width, brushed finish.
 10. 5" window Lineal: 5" face width, 20' length, ¾" pocket width. Brushed finish.
 11. 5 ½" Corner Post: 5 ½" face width, 20' length, ¾" pocket width, brushed finish.
 12. Color: _____.

- C. Soffit Accessories
 1. Universal J Channel: 12' 6" length, brushed finish, 1" face, 5/8" pocket width.
 2. F Channel: 12' 6" length, ¾" face, 5/8" pocket width, brushed finish.
 3. Batten Mold Trim: 12' 6" length, 7/8" face, 5/8" pocket width, brushed finish.
 4. J Channel – 3/8" for Beaded: 12' 6" length, 1 3/8" face, 3/8" pocket width, brushed finish.
 5. Color: _____.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Confirm that all critical dimensions are as specified on the drawings.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Repair substrate flaws or defects before applying siding or soffits.
- C. Where necessary, fur surfaces to an even plane and free from obstructions before application.
- D. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install siding and soffits in accordance with the latest edition of the manufacturer's Installation Instructions.
- B. Install vinyl siding, soffits, and accessories in accordance with best practice, with all joint members plumb and true.
- C. Securely attach siding using methods and materials recommended by siding/soffit manufacturer for wind load conditions at project site.
- D. Install vinyl siding and accessories with all joint members plumb and true.

3.4 FIELD QUALITY CONTROL

- A. After installation of siding and soffits, check entire surface for obvious flaws or defects.
- B. Replace and repair any problem areas, paying close attention to the substrate for causes of the problem.

3.5 CLEANING

- A. After application of siding and soffits, clean as necessary to remove all fingerprints and soiled areas.
- B. Upon completion of siding application, clean entire area, removing all scrap, packaging, and unused materials related to this work.

3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.