



Carnegie Xorel Artform Panels / Baffles / Partitions

PART 1 – GENERAL

A. SUMMARY

- a. Section includes Xorel Artform; prefabricated acoustical, tackable wall panel and ceiling baffles.

B. UNIT PRICES

- a. Unit prices are based on size and substrate. 3-6 units available per box.

C. REFERENCE STANDARDS

- a. ASTM C 423 – Standard Test Method for Sound Absorption Coefficients by the Reverberation Room Method.
- b. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials

D. SUBMITTALS

- a. Product Data: Submit manufacturers' material specifications and installation instruction for handling and maintenance. (available upon request)
- b. Maintenance Materials: Utilize the following for the upkeep and maintenance of installed project:
 - i. Water, solvent and diluted bleach cleanable.
 - ii. Do not apply too much pressure or over wet the substrate as it may adversely affect the panel alignment and/or bond.

E. DELIVERY, STORAGE, AND HANDLING

- a. Materials to be delivered in protective box and inflated wrapping to specified site.
- b. Store materials in a dry place under cover and elevated above grade.
- c. Stack no more than 10 boxes on top of each other.

F. WARRANTY

- a. Warranty Period: 5 years. Any Xorel Artform panels that are defective in workmanship or materials (3M command strips, adhesive, Velcro or ceiling suspension hardware*) will be replaced at no charge. The warranty does not cover:
 - i. (a) ordinary wear and tear; (b) damaged caused by mold or mildew; (c) unacceptable temperature/humidity variation; (d) improper use; (e) improper maintenance; (f) improper storage or handling; (g) any other damage or problem due to external causes unrelated to any Carnegie Fabric product defect.
- b. *Correct installation method must be used for warranty to be in force. Panels must be used within standard industry limitations

PART 2 – PRODUCTS

A. MANUFACTURERS

- a. Carnegie Fabrics; 110 North Centre Avenue, Rockville Center NY 11570
 - i. www.carnegiefabrics.com

B. MATERIALS

- a. Xorel Artform Acoustical Panels (Quiet-Core): Manufacturers standard hardened edge comprised of a pressure-impregnated hardening agent around the perimeter of the panel with not less than 3/16 inch penetration. Quiet –core acoustical substrate is sound absorbing, formaldehyde free and manufactured with 20% Post Consumer recovered materials.
 - i. Frame: Fiberglass core panels shall comply with ASTM E 84, shall be 7lb per cu. ft. density.
 - ii. Core Materials: Acoustical inorganic glass fibers complying with ASTM E 84 test requirements, compressed into boards, bonded by thermosetting agent, 7lb per cu. ft. density, 1/16 inch thickness tolerance.
 - iii. Core Thickness: 1 inch.
 - iv. Noise reduction coefficient (NRC) shall be 0.80 using ASTM C-423 a sound absorption coefficient by the reverberation room method.
- b. Xorel Artform Acoustical/Tackable Panels (Quiet-Core Plus): Manufacturers standard hardened edge comprised of a pressure-impregnated hardening agent around the perimeter of the panel with not less than 3/16 inch penetration. Quiet –Core Plus acoustical and tackable substrate is sound absorbing and
 - i. Core Thickness: 1 1/8 inch.

- ii. Noise reduction coefficient (NRC) shall be 0.80 using ASTM C-423 a sound absorption coefficient by the reverberation room method constructed with a 1/8" high density substrate of inorganic minerals & wool blend fastened to the face of the Quiet-Core substrate.
- c. Xorel Artform Tackable Panels (Mi-Core): Manufacturers standard Xorel Artform panel comprised of a dimensionally stable inorganic mineral fiberboard, resistant to moisture, expansion, and warping. Core material shall have density range of 22 to 23 lbs. per cu. ft.
 - i. Core thicknesses: ½ inch or ¾ inch.
 - ii. Noise reduction coefficient (NRC) shall be 0.30 using ASTM C-423 a sound absorption coefficient by the reverberation room method.
- d. Xorel Artform Acoustical Baffles / Partitions (Quiet-Core Plus): Manufacturers standard hardened edge comprised of a pressure-impregnated hardening agent around the perimeter of each panel with not less than 3/16 inch penetration. Quiet –Core Plus acoustical substrate is sound absorbing and
 - i. Product Thickness: 2 1/4 inch.
 - ii. Noise reduction coefficient (NRC) shall be 1.05 using ASTM C-423 a sound absorption coefficient by the reverberation room method constructed with a 1/8" high density substrate of inorganic minerals & wool blend fastened to the face of the Quiet-Core substrate.
- e. Wall Mounting Accessories: Quick Grab (All Purpose Construction Adhesive) or Velcro and other attachment components for concealed fastening of panels.
- f. Baffle Mounting Accessories: Xorel Artform baffles are manufactured with ready-to-fasten hardware for ceiling suspension. Installation materials, including cables and pendants, for vertically suspended baffles are included in each box set, and can be installed 4 different ways:
 - i. Ceiling using cables
 - ii. Ceiling using Hanging Rods
 - iii. Drop ceiling using cables
 - iv. Drop ceiling using cables

Note: Detailed installation instruction can be found at:
<https://www.xorelartform.com/installation/baffles/>

g. Sizes: Arform Ceiling and Wall Mounted Panels

i. Arc

1. Small: 14 $\frac{3}{4}$ " W x 13 $\frac{1}{8}$ " H
2. Medium: 19" W x 17" H
3. Large: 23 $\frac{3}{8}$ " W x 20 $\frac{3}{4}$ " H

ii. Circle/Circle 3D

1. Small: 12" D
2. Medium: 18" D
3. Large: 24" D
4. X-Large: 30" D
5. 2X-Large: 40" D
6. 3X-Large: 47 $\frac{1}{2}$ " D

iii. Criss

1. Small: 10 $\frac{1}{2}$ " W x 10 $\frac{1}{2}$ " H
2. Medium: 14" W x 14" H
3. Large: 17 $\frac{1}{2}$ " W x 17 $\frac{1}{2}$ " H

iv. Cross

1. Small: 6" W x 4" H
2. Medium: 7 $\frac{3}{4}$ " W x 5 $\frac{3}{8}$ " H
3. Large: 9 $\frac{3}{4}$ " W x 6 $\frac{1}{4}$ " H
4. X-Large: 12" W x 8 $\frac{1}{4}$ " H

v. Diamond/Diamond 3D

1. Small: 9 $\frac{1}{2}$ " W x 16" H
2. Medium: 13 $\frac{7}{8}$ " W x 24" H
3. Large: 18 $\frac{1}{2}$ " W x 32" H
4. X-Large: 23" W x 40" H
5. 2X-Large: 27 $\frac{1}{2}$ " W x 47 $\frac{1}{2}$ " H

vi. Flip

1. Large: 24" W x 16" H
2. X-Large: 24" W x 24" H
3. 2X-Large: 48" W x 16" H
4. 3X-Large: 48" W x 24" H

vii. Hex/Hex 3D

1. Small: 13 $\frac{3}{4}$ " W x 12" H
2. Medium: 18 $\frac{1}{2}$ " W x 16" H
3. Large: 24" W x 20 $\frac{3}{4}$ " H
4. X-Large: 32" W x 27 $\frac{11}{16}$ " H
5. 2X-Large: 40" W x 34 $\frac{5}{8}$ " H
6. 3X-Large: 47 $\frac{1}{2}$ " W x 41 $\frac{1}{8}$ " H

viii. Peak A8

1. Small: 8" W x 12" H
2. Medium: 8" W x 24" H
3. Large: 8" W x 36" H
4. X-Large: 8" W x 48" H

ix. Peak A12

1. Small: 12" W x 12" H
2. Medium: 12" W x 24" H
3. Large: 12" W x 36" H
4. X-Large: 12" W x 48" H

x. Peak B8

1. Small: 8" W x 15" H
2. Medium: 8" W x 27" H
3. Large: 8" W x 39" H
4. X-Large: 8" W x 51" H

xi. Peak B12

1. Small: 8" W x 15" H
2. Medium: 8" W x 27" H
3. Large: 8" W x 39" H
4. X-Large: 8" W x 51" H

xii. Peak C8

1. Small: 8" W x 15" H
2. Medium: 8" W x 27" H
3. Large: 8" W x 39" H
4. X-Large: 8" W x 51" H

xiii. Peak C12

1. Small: 8" W x 15" H
2. Medium: 8" W x 27" H
3. Large: 8" W x 39" H
4. X-Large: 8" W x 51" H

xiv. Peak D8

1. Small: 8" W x 12" H
2. Medium: 8" W x 24" H
3. Large: 8" W x 36" H
4. X-Large: 8" W x 48" H

xv. Peak D12

1. Medium: 12" W x 24" H
2. Large: 12" W x 36" H
3. X-Large: 12" W x 48" H

xvi. Plank

1. Small: 20" W x 5" H
2. Medium: 6" W x 23" H

3. Large: 20" W x 10" H
4. X-Large: 7 ½" W x 23" H
5. 2X-Large: 6" W x 46" H
6. 3X-Large: 7 ½" W x 46" H

xvii. Ridge

1. Small: 2 ¼" W x 23" H
2. Medium: 3 ¾" W x 23" H
3. Large: 6" W x 23" H
4. X-Large: 2 ¼" W x 46" H
5. Medium: 3 ¾" W x 46" H
6. Large: 6" W x 46" H

xviii. Ripple Kit

1. One Size: 48" W x 16"H

xix. Scale

1. Small: 12 ¾" x 12"
2. Medium: 16 ½" x 15 ½"
3. Large: 20 ¼" x 18 ¾"

xx. Square/Square 3D

1. Small: 10" W x 10" H
2. Large: 20" W x 20" H

xxi. Tall Hex

1. Small: 8" W x 16" H
2. Medium: 12" W x 24" H
3. Large: 16" W x 32" H

xxii. Valley

1. Small: 6" W x 23" H
2. Medium: 7 ½" W x 23" H

3. Large: 6" W x 46" H
4. X-Large: 7 ½" W x 46" H

xxiii. Waveline/Waveline 3D

1. Small: 12" W x 12" H
2. Medium: 16" W x 16" H
3. Large: 20" W x 20" H

h. Ceiling Baffles

i. Circle Baffle:

1. Large: 24" D
2. X-Large: 30" D
3. 2X-Large: 40" D
4. 3X-Large: 47 ½" D

ii. Diamond Baffle Horizontal

1. Large: 32" W x 18 ½" H
2. X-Large: 40" W x 23" H
3. 2X-Large: 47 ½" W x 27 ½" H

iii. Diamond Baffle Vertical:

1. Large: 18 ½" W x 32" H
2. X-Large: 23" W x 40" H
3. 2X-Large: 27 ½" W x 47 ½" H

iv. Hex Baffle:

1. Large: 24" W x 20 ¾" H
2. XLarge: 32" W x 13 3/8" H
3. 2XLarge: 40" W x 34 5/8" H
4. 3XLarge: 47 ½" W x 41 1/8" H

v. Flip Baffle:

1. Large: 24" W x 16" H
 2. X-Large: 24" W x 24" H
 3. 2X-Large: 48" W x 16" H
 4. 3X-Large: 48" W x 24" H
- vi. Ripple Kit
1. One Size: 48" W x 16" H

i. Ceiling Partitions

- i. Circle Cascade 2: 24" W x 48 ³/₄" H
- ii. Circle Cascade 3: 24" W x 75 ³/₄" H
- iii. Circle Cascade 4: 24" W x 102 ³/₄" H
- iv. Circle Cascade 5: 24" W x 129 ³/₄" H
- v. Circle Cascade 6: 24" W x 156 ³/₄" H
- vi. Circle Connect: 55.5" W x 93" H
- vii. Diamond Cascade 2: 32" W x 35 ¹/₂" H
- viii. Diamond Cascade 3: 32" W x 55" H
- ix. Diamond Cascade 4: 32" W x 77 ¹/₂" H
- x. Diamond Cascade 5: 32" W x 99" H
- xi. Diamond Cascade 6: 32" W x 120 ¹/₂" H
- xii. Diamond Connect: 57" W x 97 ¹/₂" H
- xiii. Flip Large Cascade 2: 24" W x 35" H
- xiv. Flip Large Cascade 3: 24" W x 54" H
- xv. Flip Large Cascade 4: 24" W x 73" H
- xvi. Flip Large Cascade 5: 24" W x 92" H
- xvii. Flip Large Cascade 6: 24" W x 111" H
- xviii. Flip 2XLarge Cascade 2: 48" W x 35" H
- xix. Flip 2XLarge Cascade 3: 48" W x 54" H

- xx. Flip 2XLarge Cascade 4: 48" W x 73" H
- xxi. Flip 2XLarge Cascade 5: 48" W x 92" H
- xxii. Flip 2XLarge Cascade 6: 48" W x 111" H
- xxiii. Hex Cascade 2: 24" W x 44 ½" H
- xxiv. Hex Cascade 3: 24" W x 68 ¼" H
- xxv. Hex Cascade 4: 24" W x 92" H
- xxvi. Hex Cascade 5: 24" W x 115 ¾" H
- xxvii. Hex Cascade 6: 24" W x 139 ½" H
- xxviii. Hex Connect: 49.5" W x 95 ½" H

- j. Fire Resistance: This product meets the requirements of National Fire Protection Association (NFPA 101) Class A or 1
 - i. Flame Spread Index: 10
 - ii. Smoke Developed Index: 25

PART 3 -- EXECUTION

A. EXAMINATION

- a. Inspect all conditions from substrates to mounting where work will be performed.

B. INSTALLATION

- a. Installation to be done with cooperative adherence to the manufacturers specified instructions.
- b. Xorel Artform shall be applied directly to mounting area as specified.

C. CLEANING

- a. Cleaning instructions same as general Xorel fabric instructions.

End of Section