



DATA SHEET: NUVO™ GeoForm-TSP (Metal)

Torsion Spring Panel ceiling system designed to provide a striking 3D visual element

- Highly-engineered Torsion Spring Panel ceiling system designed to provide a striking 3D visual element
- Customized depths and profiles allow for a distinct and unique finished form
- Three-dimensional accent ceiling provides a stark and dynamic contrast to surrounding traditional flat ceilings
- Suspension grid and perimeter trim fully customized to correspond with panel shapes and profiles
- Custom nature allows for integration of light fixtures, diffusers and other critical ceiling components
- Standard or custom perforation patterns can further enhance distinct aesthetic

Materials

Aluminum Sheet: 3003-H14 alloy (Suitable for paint finishes), or 5005-H34 alloy (For use with anodized finishes). Minimum thickness 20 Ga. (.032" / 0.8 mm)

Stainless Steel Sheet: Type 304 (Standard) or 316 (For higher degree of corrosion resistance). Minimum gauge 22 Ga. (.031" / 0.8 mm)

Bronze Sheet: Muntz metal alloy 280 or Commercial Bronze alloy 220. Minimum thickness (.032" / 0.8 mm)

Galvanized Steel Sheet: Galvanneal Satin Coat, Minimum 24 Ga. (.028" / 0.7 mm)

Finishes

Aluminum: Baked polyester powder enamel, or two or three coat fluoropolymer coatings by PPG® or Valspar®, or gray polyester prime for field painting. Also Class I or II anodic treatments

Stainless Steel: Satin brush # 4, XL-Blend "S" Super-Satin Brush, Mirror # 8, Non-Directional Brush or Random Swirl.

Bronze: # 5 Satin Brush, Mirror Lacquered or Oxidized

Galvanized Steel Sheet: Baked polyester powder enamel, or gray polyester prime for field painting.

Dimensions

Metal Ceiling Panels are typically supplied in a variety of custom heights and widths.

Acoustics

Metal Ceilings are available both non-perforated (non-acoustic) and perforated (acoustic). Perforation patterns are limited only to the type of material and gauge chosen and available tooling. Presently Nelson offers more than fifty different perforation patterns ranging from diagonal, staggered to straight as well as round, square and oblong holes.

Our standard acoustical material consists of a Black or Off-White pre-laminated fleece (SoundTex®) typically bonded to the concealed face of the ceiling panel.

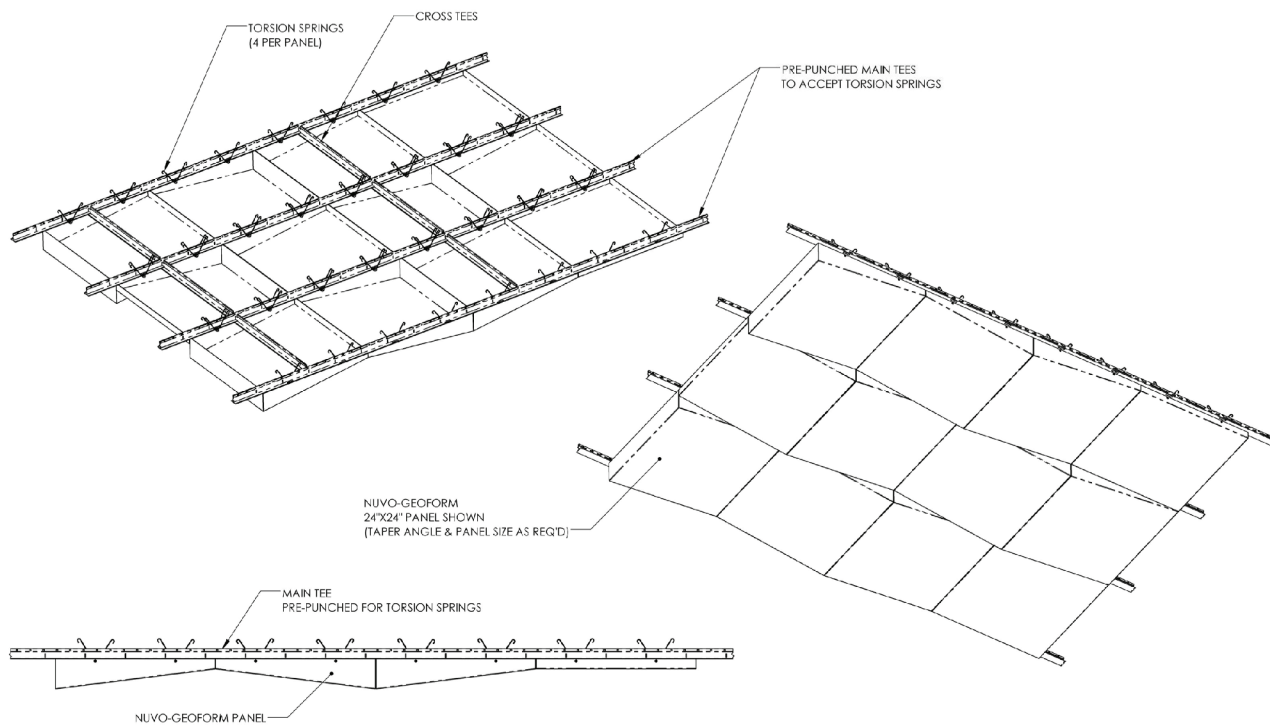
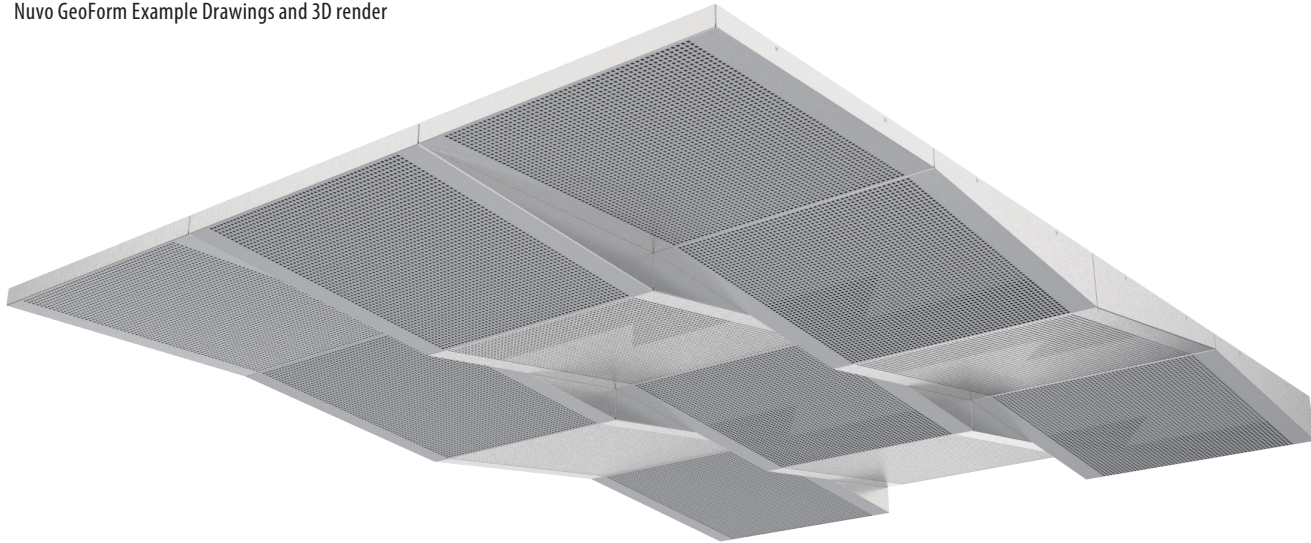
Standard References

- ASTM E84 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
- AAMA 605.2 - Specification for High Performance Finishes.
- ASTM A 366/A 366M Standard Specification for Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled; 1997.
- ASTM A 666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2000.
- ASTM B36/B 36M Standard Specification for Brass Plate, Sheet, Strip, and Rolled Bar; 2006.
- ASTM B 209/B 209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2004.

DATA SHEET: **NUVO™ GeoForm-TSP (Metal)**

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Nuvo GeoForm Example Drawings and 3D render



DATA SHEET: **Stainless Steel & RAL Color System**

Architectural finishing with Stainless Steel and Powder Coat colors

Metal surfaces have an appeal of their own that few other materials can compare to but it is no match for the environment without proper surface treatment. Since Nelson is a turn-key operation; finishing is an important part of our manufacturing process. Finish quality is the first impression that everyone sees and maybe the most critical part of what makes architectural metals so attractive.

For Products that require a wet paint or powder coating, a five-stage washing system is used to remove any residual oils and properly prepare the surface for maximum coating adhesion. With large batch painting and powder coating booths and a 10 ton overhead crane, even very large coatings and fabrications can be accommodated.

With a broad customer base and a wide range of fabrication capabilities, we are able to provide any level of service desired, all of which are backed by our ISO 9001:2015 certified quality management system.

FINISHING Processes

Grinding, De-burring, Polishing, Wet Painting, Powder Painting & Plating

Stainless Steel Finishes

Stainless Steel finishes are available in a number of patterns. Standards: #2, #3, #4 & #8 Mirror (Many more options available)

Color: RAL

Nelson's Architectural Metals Division uses the RAL Universal Color System as the color guide for standard project colors. We also have the ability to match any existing color or create a specific color when needed.

For additional information about our custom finishing and assembly services, contact us directly.

JUPITER SILVER

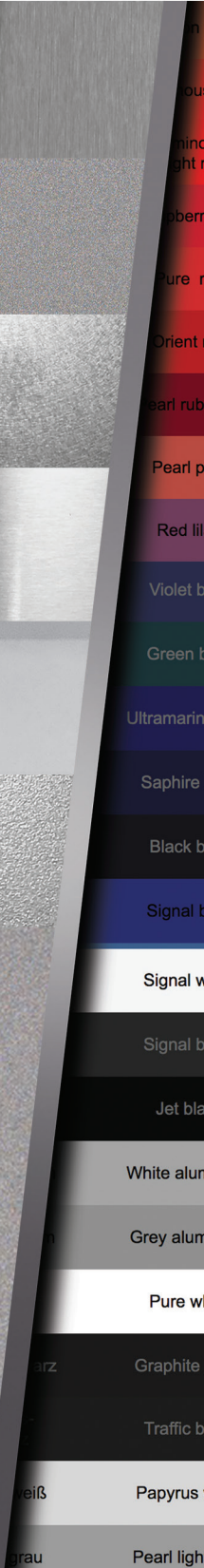
BRUSHED ALUMINUM

NON-DIRECTIONAL

SATIN BRUSH

#8 MIRROR

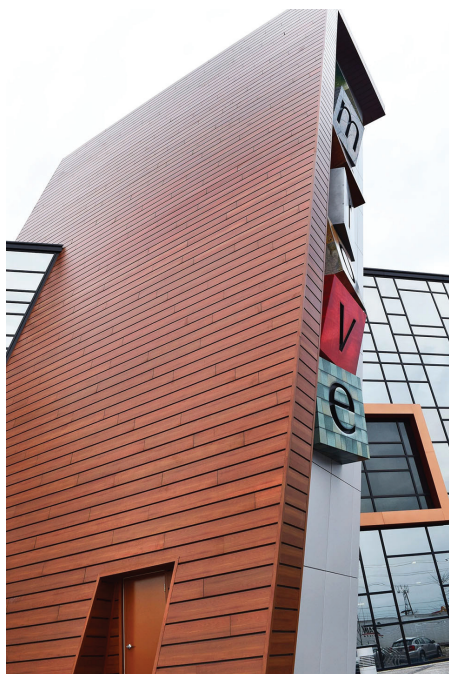
SANDSTONE



DATA SHEET: Ourborite | LUX Series *(sample Wood Finishes)*

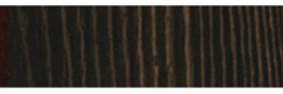
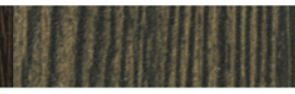
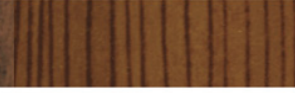
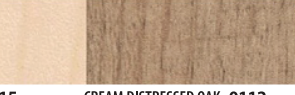
With powder coating and sublimated finishes

Nelson Industrial Inc. / Architectural Metals Division • 905.428.2240 • www.nelsonamd.com • info@nelsonamd.com



The Ourborite™ LUX Series features elevated aesthetics and durability with our new revolutionary powder coating and sublimated finishes. This advanced manufacturing process begins with the application of a specially formulated powder coating, known for its superior adherence and resilience. This eco-friendly coating is electrostatically applied and then cured under high heat, creating a hard, protective layer that is significantly more resistant to scratches, chipping, and fading compared to traditional paints. The series then introduces a specialized sublimation technique, transferring high quality wood designs onto powder-coated surfaces using intense heat and pressure. This process results in vivid, wood-like patterns that are seamlessly integrated into the coating, ensuring durability and colour vibrancy. These finishes are also formulated with UV resistant properties and can be cleaned easily.

SAMPLES SHOWN AS A GUIDE ONLY. FOR PROPER COLOUR DISPLAYED, REQUEST PRODUCT SAMPLES.

								
LIGHT CEDAR 0113			DARK PECAN 0214			LIGHT PECAN 0114		
								
RED OLIVE 0311			DARK ROSEWOOD 0210			LIGHT ROSEWOOD 0110		
								
DARK OLIVE 0211			LIGHT OLIVE 0111			CREAM OLIVE 1511		
								
LIGHT NATIONAL WALNUT 0106			DARK TABLE WALNUT 0205			LIGHT TABLE WALNUT 0105		
								
DARK ANTIQUE OAK 0208			LIGHT ANTIQUE OAK 0108			DARK FIR 0203		
								
DARK KNOTTY PINE 0207			LIGHT KNOTTY PINE 0107			DARK CHERRY 0202		
								
CREAM CHERRY 1502			WHITE CHERRY 0402			CANADIAN MAPLE 0415		
								
DARK BAMBOO 0209			LIGHT BAMBOO 0109			DARK ACACIA 0201		
								
DARK CEDAR 0213			CHARRED ROSEWOOD 0310			LIGHT ACACIA 0101		

DATA SHEET: Perforation Patterns

Popular Standards

Standard Patterns

SHAPE	DIRECTION	HOLE x CENTRE DIST.	CENTRE DIST.	OPEN AREA	ID-NUMBER
ROUND	STRAIGHT	1/16" x 0.2165"	0.2165"	6.6%	R1052
"	"	1/16" x 0.1894"	0.1894"	8.6%	R1032
"	"	1/16" x 0.1624"	0.1624"	11.6%	R1022
"	"	5/64" x 0.4332"	0.4332"	2.6%	R1092
"	"	5/64" x 0.2166"	0.2166"	10.2%	R1091
"	"	5/64" x 3/16"	0.1898"	13.4%	R1082A
"	"	3/32" x 0.3248"	0.3248"	6.6%	R1142
"	"	3/32" x 0.2706"	0.2706"	9.4%	R1132
"	"	1/8" x 0.4330"	0.4330"	6.5%	R1192
"	"	1/8" x 3/8"	0.3788"	8.6%	R1182
"	"	1/8" x 0.3248"	0.3248"	11.6%	R1172
"	"	3/16" x 0.6495"	0.6495"	6.6%	R1282
"	"	3/16" x 0.5413"	0.5413"	9.4%	R1272
"	"	3/16" x 0.4871"	0.4871"	11.6%	R1262
"	"	3/16" x 0.4330"	0.4330"	14.7%	R1252
"	"	1/4" x 0.8660"	0.8660"	6.6%	R1352
"	"	1/4" x 0.6495"	0.6495"	11.6%	R1342
"	"	1/4" x 0.5413"	0.5413"	16.8%	R1332
"	"	1/2" x 1.2990"	1.2990"	11.6%	R1462
"	"	1/2" x 1.0826"	1.0826"	16.8%	R1442

ROUND	STAGGERED	1/16" x 9/32"	0.2812"	4.5%	R1025
"	"	1/16" x 3/16"	0.1875"	10.1%	R1024
"	"	1/16" x 1/8"	0.1250"	22.7%	R1050
"	"	5/64" x 1/8"	0.1250"	35.3%	R1090
"	"	5/64" x 0.1096"	0.1096"	46.0%	R1080A
"	"	3/32" x 3/16"	0.1875"	22.7%	R1140
"	"	3/32" x 5/32"	0.1562"	32.7%	R1130
"	"	1/8" x 1/4"	0.2500"	22.7%	R1190
"	"	1/8" x 7/32"	0.2188"	29.6%	R1180
"	"	1/8" x 3/16"	0.1875"	40.3%	R1170
"	"	3/16" x 3/8"	0.3750"	22.7%	R1280
"	"	3/16" x 5/16"	0.3125"	32.7%	R1270
"	"	3/16" x 9/32"	0.2812"	40.3%	R1260
"	"	3/16" x 1/4"	0.2500"	51.0%	R1250
"	"	1/4" x 1/2"	0.5000"	22.7%	R1350
"	"	1/4" x 3/8"	0.3750"	40.3%	R1340
"	"	1/4" x 5/16"	0.3125"	58.0%	R1330
"	"	1/2" x 3/4"	0.7500"	40.3%	R1460
"	"	1/2" x 5/8"	0.6250"	58.0%	R1440

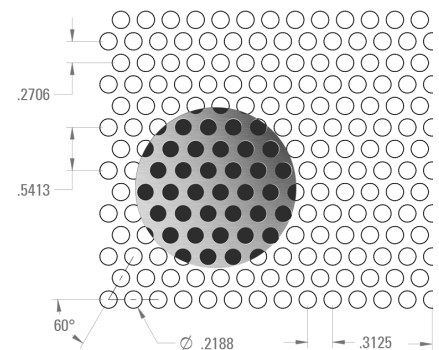
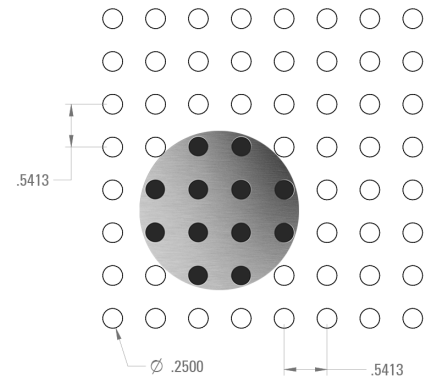
OPTIONS: Because of the large number of Perforation Patterns available, we have only shown the popular standard patterns here. If there are specific sizes and shapes required for your project, request matches from your AMD Representative to receive pattern selections available

MATERIALS

STEEL, STAINLESS STEEL,
ALUMINUM, GALVANIZED

ALLOY GRADE TYPE

Al 5052-H32, CRCQ, G90, HRCQ,



POPULAR PATTERNS

Shown in **BOLD FACE** text.