

Company	Products Offered	Product Descriptions
<p>ASC Steel Profiles, Inc. www.ascprofiles.com www.ascsd.com 800.360.2477</p>	<p>The DeltaGrip™ Tool</p>	<p>A side seam attachment system that is a revolutionary alternative to welding. A lightweight and easy-to-use pneumatic tool that clutches the seams together in one-seventh the time of welding and includes a Go-No-Go gauge to ensure that each grip stacks up to its name. Installation is fast, safe, and consistent.</p>
<p>Canam Steel Corporation www.canam.ws 508.238.4500 (Easton, MA) 301.874.5141 (Point of Rocks, MD) 636.239.6716 (Washington, MO) 904.781.0898 (Jacksonville, FL) 509.837.7008 (Sunnyside, WA)</p>	<p>Roof Deck 3615/3606</p>	<p>Roll formed to cover 36" wide; flutes are 1.5" deep, spaced 6" on center. Deck can be rolled to lengths from 6'-42'6".</p>
	<p>Composite Deck 3615/3606</p>	<p>Roll formed to cover 36" wide; flutes are 1.5" deep, spaced 6" center to center. Deck can be rolled from 6'-42'6" with enough space to weld headed studs through deck to top of beams/joists for composite action.</p>
	<p>Composite Deck 3623/2432</p>	<p>Roll formed to cover 24" wide; flutes are 2" deep, spaced 12" from center to center. Deck can be rolled from 6'-40" with enough space to weld headed studs through deck to top of beams/joists for composite action.</p>
	<p>Form Deck 3012</p>	<p>Roll formed to cover 30"; flutes are 9/16" deep and spaced at 2-1/2" center to center. Rolled to requested length or stocked in 20' 4" lengths to cover multi-spans of form deck.</p>
<p>Curveline, Inc. www.met-tile.com/curveline 888.998.0311</p>	<p>Crimp-curved "B" Deck and Crimp-curved "N" Deck</p>	<p>Standard, nestable, perforated, or acoustical panels can be crimp-curved into the desired radii and angles. The curving process increases panel strength, resulting in savings from reduced substrate and structural requirements.</p>
<p>DACS, Inc. www.dacsinc.com 757.393.0704</p>	<p>Roof Decks</p>	<p>Include type "A", "B", "F", "J" and "H". Cellular roof decks are available also. Most decks are available galvanized or prime painted, gray or white.</p>
	<p>Composite Floor Decks</p>	<p>Include 1.5", 2", or 3" and are available galvanized. Cellular floor decks are also available.</p>
	<p>Non-composite Form Decks</p>	<p>Include 9/16" (S-deck), 7/8" (heavy duty) and B-inverted (1.5"). All are available galvanized.</p>
<p>D-MAC Industries, Inc. www.d-macindustries.com 800.878.3622</p>	<p>Roof Deck</p>	<p>Sections kept in stock for immediate shipment nationwide include Types A, B, F, and N in prime-painted or galvanized finishes, cut to any length.</p>
	<p>Floor Deck</p>	<p>Galvanized 1.5", 2", and 3" composite decks and 9/16", 15/16", 1-5/16", 1.5", and 2" non-composite floor decks are available cut to length from stock in gauges 16 to 28.</p>
	<p>Bridge Form</p>	<p>D-MAC produces 1.5", 2", 2.5", and 3"-deep form sections in gauges 16 to 22 and pitches ranging from 5" to 10" with G-165, G-210, and G-235 galvanized coatings.</p>
	<p>Deck Accessories</p>	<p>D-MAC manufactures deck accessories such as closures, pour stops, and custom shapes, and supplies rubber closures, fasteners, and related items. Short lead times are standard practice for all products.</p>
<p>Hilti, Inc. www.us.hilti.com 800.879.8000</p>	<p>10-volt Hilti ST 1800 Adjustable Torque Screwdriver with SDT 25 Decking Tool</p>	<p>With the SDT 25 Decking Tool, the 110-volt Hilti ST 1800 Adjustable Torque Screwdriver converts quickly and easily from a hand-held to a stand-up system. Can be used for fastening deck sidelaps and attaching metal deck to thin bar joists and purlins. Fastens up to three times faster than traditional fastening methods and holds 50 screws. 18-position adjustable torque control provides precise screw setting. Features a quick, easy jam release mechanism and rotating nosepiece so operators can fit into narrow profiles.</p>
<p>MBI Products Company, Inc. www.mbiproducs.com 216.431.6400</p>	<p>Acoustical Products</p>	<p>MBI manufactures acoustical products of all types and provides insulation for perforated acoustical metal deck flutes. Insulation is available in different thicknesses and densities, and comes in rolls or pieces.</p>
<p>Metal Dek Group™ A Unit of Consolidated Systems, Inc.™ www.metaldesk.com 800.DEKDSGN</p>	<p>Roof Decks</p>	<p>Standard and architectural deck systems and accessories.</p>
	<p>Floor Decks</p>	<p>Standard and architectural deck systems and accessories.</p>
	<p>Form Decks</p>	<p>Full line including accessories.</p>
	<p>Bridge Decks</p>	<p>Full line including accessories.</p>
<p>New Millennium Building Systems www.joist-deck.com 260.868.6000</p>	<p>Roof Deck</p>	<p>Attached to steel joists or beams and used as support for roof coverings. Available in a galvanized or prime painted finish.</p>
	<p>Form Deck</p>	<p>Attached to steel joists or beams and used as forms for poured concrete platforms. Available in a galvanized or prime painted finish (1" depth or less—galvanized only).</p>
	<p>Composite Deck</p>	<p>Attached to steel joists or beams and used in conjunction with shear studs to form a composite floor system. Available in a galvanized or uncoated top/painted bottom finish.</p>

Company	Products Offered	Product Descriptions
Nucor Vulcraft Group www.vulcraft.com 435.734.9433 (Brigham City, UT) 607.529.9000 (Chemung, NY) 843.662.0381 (Florence, SC) 936.687.4665 (Grapeland, TX) 402.644.8500 (Norfolk, NE) 260.337.1800 (St. Joe, IN)	Steel Deck, Steel Joists, and Joist Girders	Nucor Vulcraft Group is the nation's largest producer of steel deck, steel joists, and joist girders. Vulcraft also works with highly engineered products like composite floor joists. Vulcraft supplies products for a wide range of structures. Vulcraft products are made from more than 90 percent recycled materials and have been essential elements in green buildings.
Pneutek, Inc. www.pneutek.com 800.431.8666	Fixed-head Mechanical Fasteners	Fixed-head mechanical fasteners for attachment of steel deck to all grades of steel structural framing members of at least 1/8" thickness (no maximum thickness).
	Pneumatic Fastening Tools	Stand-up and up-right air/safe pneumatic fastening tools to drive all Pneutek steel deck attachment fasteners to all steel structural support members (1/8" minimum thickness).
	Portable Air Compressors	Pneutek two-stage portable air compressors of 12.5 hp (20 cfm at 175 psig) and 22 hp (39.5 cfm at 175 psig) to power all Pneutek pneumatic fastening tools.
	ASME Tank Assembly	Pneutek auxiliary 17 gal ASME tank assembly with pressure regulator, safety valve, male connector and female coupler, and 50' and 100' 300 psi air hose assemblies.
Roof Deck, Inc. www.roofdecking.com 609.448.6666	Roof and Floor Deck Products	Complete manufacturer of roof and floor deck products. Delivery is fast, and most items can be manufactured in just one day.
Steel Deck Institute www.sdi.org 847.458.4647	Steel Floor and Roof Deck Trade Association	Trade association for manufacturers of steel floor and roof decks and related products. Provides industry guidelines for engineering design, manufacture, and field use of steel decks. Prepares, reviews, and distributes literature. Liaisons with construction industry associations on matters of common interest.

Product Case Study

Curveline, Inc.—Curved Metal Decking

By Terry Holman

Designers for the Pennsylvania Turnpike Commission's new maintenance facility in Harrisburg, PA wanted a design that would revitalize the image of the commission and the surrounding region, harmonize with the site's hilly landscape, and facilitate the equipment maintenance and storage functions of the two main buildings.

The choice of curved metal deck components from Curveline, Inc., an Ontario, CA service center for custom crimp-curving of metal deck, roof, and wall panels, successfully met all these requirements in a cost-effective manner.

A curved metal motif was used for the interiors of the facility's maintenance and vehicle storage buildings for aesthetic, as well as functional, purposes. Nearly 30,000 sq. ft of 20 gauge steel "N" deck panels were custom-curved by Curveline.

"By using a curved metal deck and leaving the underside exposed, we were able to express the true



Metal deck components by Curveline, Inc.

structure of the building without covering anything up," said Richard Oziembowski, director of design for

architects JSA, Inc. "If we had used a more conventional dropped ceiling, we would have lost that impact."

Curveline's proprietary crimp-curving process also adds rigidity to metal decking panels, creating a virtually self-supporting deck that is extremely strong and economical. The Curveline process can achieve 15-20% longer spans for reduced framing costs.

The 17,876 sq. ft maintenance building features an 82' clear span bow-string truss that rises to 34' 4-1/2", while the 11,264 sq. ft vehicle storage building has an 82' clear span truss that rises to 28' 11-1/2". The ability to achieve such large spans has enabled the Pennsylvania Turnpike Commission to facilitate efficient movement of trucks throughout the buildings.

For more information, visit Curveline's web site at www.met-tile.com/curveline. ★

Terry Holman is President of Curveline, Inc.

Company	Products Offered	Product Descriptions
United Steel Deck, Inc. www.njb-united.com 908.277.1617	Roof Deck	1.5" (B and F) and 3" (N) roof deck. Finishes include gray or white primer, G30, G60, and G90 galvanized and special paint coatings. Acoustic treatment is available.
	Composite Deck	1.5" (B Lok and Lok Floor), 2", and 3" (Lok Floor) composite deck. Finishes include phos/painted, galvanized, and galvanized plus primer finishes.
	"Deep Deck" Roof Deck	"Deep Deck" roof deck profiles in 4.5", 6", and 7.5" depths. Finishes include galvanized, galvanized plus primer finishes, and special paint coatings. Acoustic treatment is available; thicknesses to 10 gage on type LS.
	Cellular Roof and Floor Decking	1.5", 2", 3", 4.5", 6", and 7.5" deep acoustic and non-acoustic are available. Finish options include galvanized, galvanized plus primer finish, and special paint coatings. Fiberglass insulation batts are shop installed when acoustic.
Verco Manufacturing Co. www.vercodeck.com 602.272.1347	PunchLok® System	Achieves high shear values through economical, high-quality side-seam attachments. The PunchLok® system was tested on all Verco™ interlocking products. Testing included 1½" deck pinned to supports. With a variety of attachment and finish options, Verco offers flexibility to combine systems, minimize construction time, and maximize savings.
Wheeling Corrugating Company www.wheelingcorrugating.com 304.234.2332	Roofing and Siding	Our painted and roofing products come in seven distinctive profiles. Each comes in a variety of colors. Tough enough to handle light commercial applications and handsome enough for residential installations.
	Decking Products	Composite floor deck, steel roof deck, form deck, and bridge form.
	Highway Products	Culvertcote®, Culvertcote® with Trenchcoat, and Culvertcote Plus II® galvanized and aluminized steel sold to companies that make culvert pipe.
	Painted Coil Products	Wheeling has added another technically advanced coil coating line. This new system, along with a well established double coat paint line, dramatically increases the availability of premium quality coil.

Product Case Study

Nucor Vulcraft Group—Steel Deck and Joists

By Cliff Glickman

The project team for the Oklahoma University Sooners' new indoor football practice facility faced a tight deadline. The facility needed to be complete not only in time for bowl game practice, but also before poor weather set in by late fall.

The project required massive bow-string and long span joists to support the roof. The spans weighed about 10 tons each, with the biggest weighing in at 17 tons, and ranged up to 210' wide and 15' tall. The facility manufacturing the joists, Nucor Vulcraft's Grapeland, TX division, had never produced joists that big before—the spans were so expansive that every one of the facility's more than 300 employees could fit under them. To top it off, the site was barely larger than the building itself. There was no room to store the mammoth joists.

The solution was simple to develop but very difficult to execute. Vulcraft had to deliver its mammoth spans on a just-in-time basis as the contractor needed them.

Each of these spans took hours to



Steel deck and joists by Nucor Vulcraft Group.

build and several hours to erect, including the splicing and bridging.

"That takes a lot of grunting and groaning," said Carl Jones, a district

sales manager for Vulcraft's Grapeland division. Jones said that watching the work on the joists, as cranes lifted the multi-ton spans about 60' in the air, was a jaw-dropping sight.

Each leg of the 330-mile trip to ship the product from Grapeland to Norman, OK took five-plus hours, adding yet another challenging element to the project. With exceptional coordination and communication between the job site, the customer, Vulcraft's shipping department, and the rest of the Grapeland team, the Nucor division made four precisely timed deliveries.

In the end, the job required 424 tons of joist and 143 tons of decking, also produced by the Grapeland Vulcraft team.

The project was completed in about three months and two weeks ahead of schedule. The Oklahoma Sooners had their new practice facility thanks to the teamwork of Vulcraft and the construction project managers. ★

Cliff Glickman is a senior counselor for Eric Mower and Associates.