

CONN  WELD

PROFILE WIRE



Mailing Address
P.O. Box 5329
Princeton, WV 24701

304-487-1421 / (f) 304-487-3761
sales@conn-weld.com
conn-weld.com

ABOUT CONN-WELD

Conn-Weld's 500,000 sq ft facility continues to expand as we increase our tooling to meet the needs of our customers.

Because we have our own wire mill, we can work with our procurement partners on inventory control that best fits the supply demands of your operation.

Conn-Weld's main corporate office is in **Princeton, WV**, with warehousing facilities located in:

Madisonville, KY

Springtown, TX

Alberta Canada



Conn-Weld wire mill facility. *Dublin, VA*



**EXPERIENCE THE CONN-WELD DIFFERENCE
WHEN YOU SEE THIS SYMBOL SCAN THE QR
CODE FOR A DEEPER DIVE TO LEARN MORE.**



TABLE OF CONTENTS

2 About Conn-Weld	15 Conn-Weld Sieves
4 Profile Wire	18 Conn-Weld Baskets
5 Markets Served	20 Conn-Weld Tuff-Wire
6 Open Area Chart	21 Conn-Weld Tuff-Plate
8 Wire Application Guide	22 Woven Wire
11 Application and Sizing	23 Conn-Weld E-Z Bar
12 Custom Wire and Framing	24 Conn-Weld Tuff-Rail Key Lock System
13 Flat Panels	
14 PANELOK System Pin-Style Edge Panels	



CONN WELD
conn-weld.com



Download Brochure

PROFILE WIRE – WHERE OUR LEGACY BEGINS

When Conn-Weld was founded in 1975, our philosophy was to serve the customer by offering a quality product, produced in a timely fashion, backed by dependable service. This philosophy has stood the test of time serving as the catalyst to our success and Conn-Weld's Profile Wire is where it all began.



CONN-WELD'S NAME DERIVES FROM THE FOUNDER, JAMES D. CONNOLLY AND THE FUSION WELDING PROCESS PATENTED BY HIM



Legacy of Profile Wire



Made in USA

CAPABILITIES

Through years of testing, Conn-Weld has determined the best metallurgical content that will provide operators with optimum screen life and performance. We manufacture all stainless profile wire shapes in-house at our own mill, where precision instrumentation ensures strict adherence to dimensional tolerances. This combination of advanced technology and quality materials guarantees a reliable source of profile wire screens, offering consistent quality, long lifespan, and optimal efficiency.



MARKETS SERVED

Conn-Weld's years of application experience have positioned us to meet the unique needs across the diverse markets we serve, including:

- ⚡ Coal
- ⚡ Beverage & Brewing
- ⚡ Hardrock & Industrial Minerals
- ⚡ Mining & Aggregates
- ⚡ Classification & Flotation
- ⚡ Fish Diversion
- ⚡ Hydro Power
- ⚡ Pulp & Paper
- ⚡ Water Intake
- ⚡ Filtration
- ⚡ Waste Water Treatment
- ⚡ Architectural
- ⚡ Corn Wet Milling
- ⚡ Landscaping
- ⚡ Food Processing
- ⚡ Recycling



Serving Our Markets



Benefitting Various Markets



Benefits in Hard Rock & Industrial Minerals



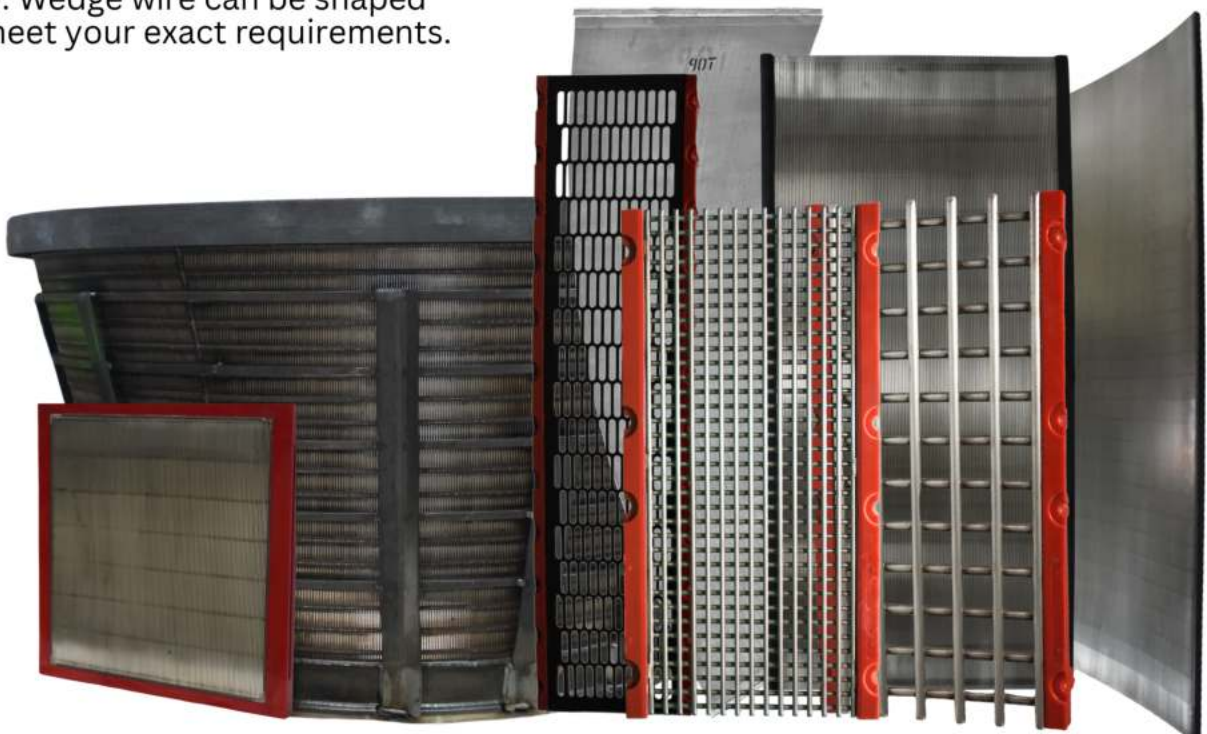
Benefits in Coal

PROFILE WIRE PRODUCTS & SCREEN MEDIA


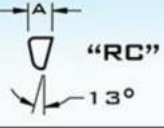

Conn-Weld provides wedge wire screen panels for vibrating screens, sieves, and various filtration equipment. Each panel is customized for your specific application, with tailored wire shapes, determined open area, and a variety of screen opening configurations. Our engineers work with you to develop solutions for unique challenges, offering custom features that optimize material flow.

An added benefit for operators is that all wedge wire is produced in-house, ensuring reliable resources, short lead times, and better inventory control.

Profile screens are manufactured from 304 and 316 stainless steel (other materials available upon request). Wedge wire can be shaped and sized to meet your exact requirements.



CONN WELD®

MM = 21/MESH		MICRONS	 FINE WIRE 10°		 "RC" PROFILE 13°			 "C" PROFILE 13°			
MM	INCHES		"A" DIM.		"A" DIM.			"A" DIM.			
			0.03	0.045	0.03	1/16"	3/32"	1/16"	3/32"	1/8"	3/32"
	0.001	25	3.2	2.2	3.2	1.6	1.1	1.6	1.1	0.8	1.1
	0.002	50	6.3	4.3	6.3	3.2	2.2	3.2	2.2	1.6	2.2
	0.003	75	9.1	6.3	9.1	4.8	3.2	4.8	3.2	2.4	3.2
	0.004	100	11.8	8.2	11.8	6.2	4.3	6.2	4.3	3.2	4.3
1/8	0.005	125	14.3	10	14.3	7.7	5.3	7.7	5.3	4	5.3
	0.006	150	16.7	11.3	16.7	9.1	6.3	9.1	6.3	4.8	6.3
	0.007	177	18.3	13.5	18.9	10.4	7.2	10.4	7.2	5.5	7.2
1/5	0.008	200	21.1	15.1	21.1	11.8	8.2	11.8	8.2	6.2	8.2
1/4	0.01	250	25	18.2	25	14.3	10	14.3	10	7.7	10
1/3	0.013	330	30.2	22.4	30.2	17.8	12.6	17.8	12.6	9.8	12.6
2/5	0.016	400	34.8	26.2	34.8	21.1	15.1	21.1	15.1	11.8	15.1
	0.018	450	37.5	28.6	37.5	23.1	16.7	23.1	16.7	13	16.7
1/2	0.02	500	40	30.8	40	25	18.2	25	18.2	14.3	18.2
3/5	0.024	620	44.4	34.8	44.4	28.6	21.1	28.6	21.1	16.7	21.1
3/4	0.03	750	50	40	50	23.3	25	33.3	25	20	25
1	0.04	1000	57.1	47.1	57.1	40	30.8	40	30.8	25	30.8
1-1/4	0.05	1250	62.5	52.6	62.5	45.5	35.7	45.5	35.7	29.4	35.7
1-3/8	0.055	1410	64.7	55	64.7	47.8	37.9	47.8	37.9	31.4	37.9
1-1/2	0.06	1500	66.7	57.1	66.7	50	40	50	40	33.3	40
1-5/8	0.065		68.4	59.1	68.4	52	41.9	52	41.9	35.1	41.9
1-3/4	0.07		70	60.9	70	53.8	43.8	53.8	43.8	36.8	43.8
2	0.08		72.7	64	72.7	57.1	47.1	57.1	47.1	40	47.1
2-1/4	0.09		76	66.7	75	60	50	60	50	42.9	50
2-1/2	0.1		76.9	69	76.9	62.5	52.6	62.5	52.6	45.5	52.6
2-3/4	0.11		78.6	71	78.6	64.7	55	64.7	55	47.8	55
3	0.12		80	72.7	80	66.7	57.1	66.7	57.1	50	57.1
	9/64		82.4	76	82.4	70.1	61	70.1	61	54	61
	3/16		86.2	81	86.2	75.8	67.6	75.5	67.6	61	67.6
	7/32		88	83	88	78.5	70.9	78.5	70.9	64.6	70.9
	1/4		89.3	84.7	89.3	80.6	73.5	80.6	73.5	67.6	73.5
	5/16		91.2	87.4	91.2	83.9	77.6	83.9	77.6	72.3	77.6
	3/8		92.6	89.3	92.6	86.2	80.6	86.2	80.6	75.8	80.6
	7/16		93.6	90.7	93.6	87.9	82.9	87.9	82.9	78.5	82.9
	1/2		94.3	91.7	94.3	89.3	84.7	89.3	84.7	80.6	84.7
	9/16		94.9	92.6	94.9	90.4	86.2	90.4	86.2	82.4	86.2
	5/8		95.4	93.3	95.4	91.2	87.4	91.2	87.4	83.9	87.4
	11/16		95.8	93.8	95.8	92	88.4	92	88.4	85.1	88.4
	3/4		96.2	94.3	96.2	92.6	89.3	92.6	89.3	86.2	89.3
	7/8		96.7	95.1	96.7	93.6	90.7	93.6	90.7	87.9	90.7
	1		97.1	95.7	97.1	94.3	91.7	94.3	91.7	89.3	91.7
	1-1/4		97.7	96.5	97.7	95.4	93.3	95.4	93.3	91.2	93.3
	1-1/2		98	97.1	98	96.2	94.3	96.2	94.3	92.6	94.3
	1-3/4		98.3	97.5	98.3	96.7	95.1	96.7	95.1	93.6	95.1



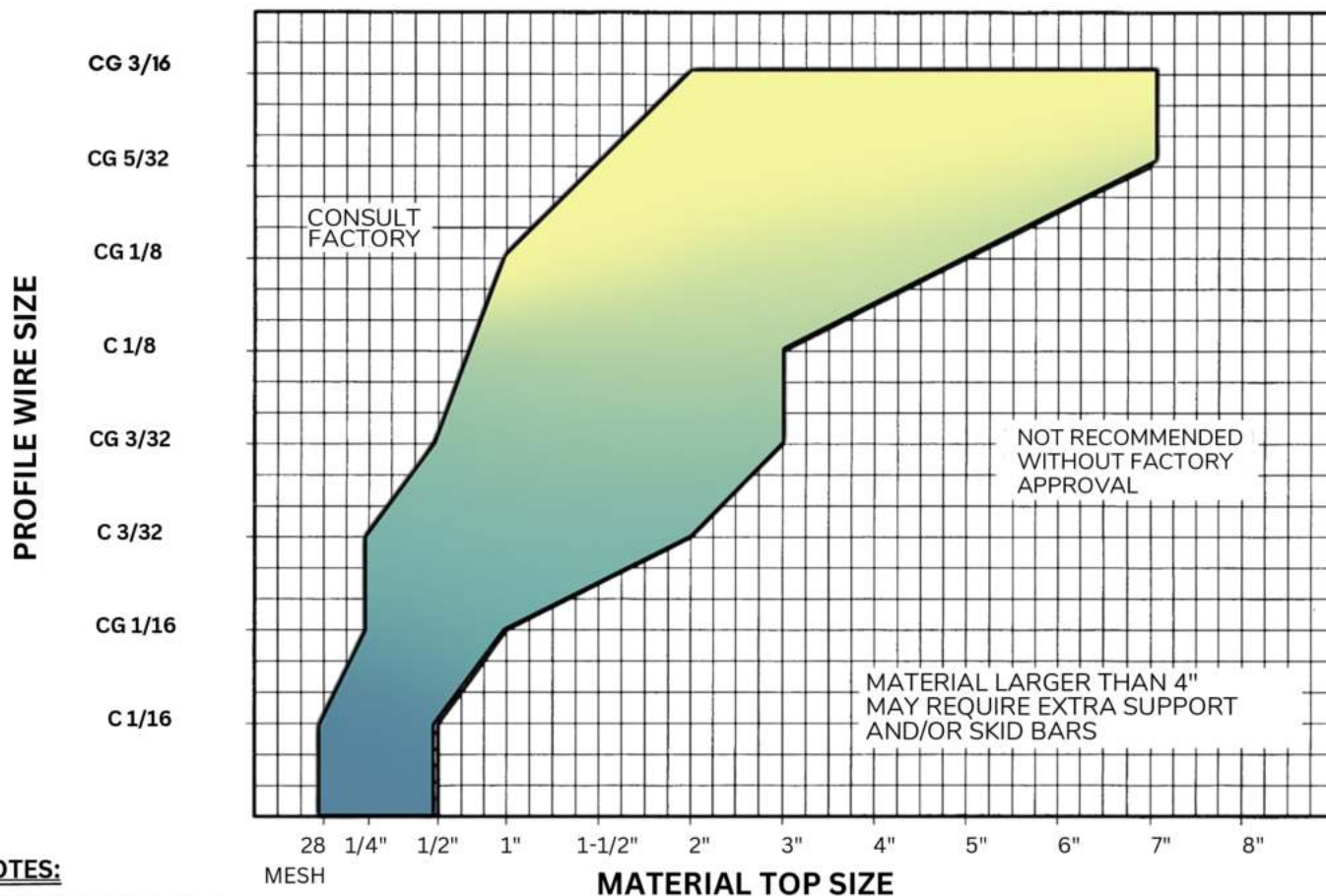
Mr. Tuff-Screen®



PASS THRU = 100GPM / FT² OF OPEN AREA

"A" DIM.						CONN-WELD		OPENINGS			
								ROUND HOLE	SQUARE HOLE	REF. TYLER MESH	INCHES
0.11	1/8"	5/32"	3/16"	1/4"	MM	INCHES					
0.9	0.8	0.6	0.5	0.4		0.001			400	0.0015	
1.8	1.6	1.3	1.1	0.8		0.002			250	0.0024	
2.7	2.4	1.9	1.6	1.2		0.003			200	0.0029	
3.5	3.2	2.5	2.1	1.6		0.004			150	0.0041	
4.3	4	3.1	2.6	2	1/8	0.005			100	0.0058	
5.2	4.7	3.7	3.1	2.3		0.006			80	0.0069	
6	5.5	4.3	3.6	2.7		0.007			65	0.0082	
6.8	6.2	4.9	4.1	3.1	1/5	0.008			60	0.0097	
8.3	7.6	6	5.1	3.8	1/4	0.01			48	0.0116	
10.6	9.7	7.7	6.6	4.8	1/3	0.013			42	0.0138	
12.7	11.7	9.3	8	6	2/5	0.016			35	0.0164	
14.1	12.9	10.3	8.9	6.7		0.018			32	0.0195	
15.4	14.2	11.4	9.8	7.4	1/2	0.02	1/32		28	0.0232	
17.9	16.6	13.3	11.5	8.8	3/5	0.024			24	0.0276	
21.4	19.9	16.1	14	10.7	3/4	0.03	3/64		20	0.0328	
26.7	24.8	20.4	17.8	13.8	1	0.04			16	0.039	
31.3	29.2	24.3	21.3	16.7	1-1/4	0.05	1/16		14	0.045	
33.3	31.2	26.1	22.9	18	1-3/8	0.055			12	0.0555	
35.3	33.1	27.8	24.5	19.4	1-1/2	0.06	5/64		10	0.065	
37.1	34.9	29.4	26	20.6	1-5/8	0.065	3/32		9	0.078	
38.9	36.6	31	27.5	21.9	1-3/4	0.07	7/64		8	0.093	
42.1	39.8	33.9	30.2	24.2	2	0.08	1/8		7	0.11	
45	42.7	36.6	32.7	26.5	2-1/4	0.09	9/64	3/32			
47.6	45.2	39.1	35.1	28.6	2-1/2	0.01	5/32		6	0.131	
50	47.6	41.4	37.3	30.6	2-3/4	0.11	11/64				
52.2	49.8	43.5	39.3	32.4	3	0.12	3/16	5/32	5	0.156	
56.1	53.8	47.5	43.3	36.1		9/64	7/32		4	0.185	
63	60.8	54.6	50.3	42.9		3/16	1/4	3/16			
66.5	64.4	58.4	54.2	46.7		7/32	5/16	1/4	3	0.263	
69.4	67.4	61.6	57.5	50		1/4	3/8	5/16	2-1/2	0.312	
74	72.1	66.7	62.8	55.6		5/16	7/16				
77.3	75.6	70.6	67	60		3/8	1/2	3/8			
79.9	78.3	73.7	70.3	63.6		7/16	9/16				
82	80.5	76.2	73	66.7		1/2	5/8	1/2			
83.6	82.3	78.3	75.3	69.2		9/16	11/16				
85	83.8	80	77.2	71.4		5/8	3/4	5/8			
86.2	85	81.5	78.8	73.3		11/16	13/16				
87.2	86.1	82.8	80.2	75		3/4	7/8	3/4			
88.8	87.9	84.9	82.5	77.8		7/8	1	7/8			
90.1	89.2	86.5	84.4	80		1	1-1/4	1			
91.9	91.2	88.9	87.1	83.3		1-1/4	1-1/2	1-1/4			
93.2	92.5	90.6	89	85.7		1-1/2	1-3/4	1-1/2			
94.1	93.5	91.8	90.4	87.5		1-3/4	2	1-3/4			

WIRE APPLICATION GUIDE - FLAT SCREENS



NOTES:

- 1. BASED ON 50 POUNDS PER CUBIC FOOT
- 2. AS IN ALL SCREEN APPLICATIONS. IMPACT OF FALLING MATERIAL AND VELOCITY AND VOLUME MUST BE HELD TO A MINIMUM. CONSULT WITH YOUR SCREEN APPLICATION ENGINEER.

SCREEN ROD SELECTION

<p>ROUND RODS</p> <p>ACTUAL SIZE</p> <ul style="list-style-type: none"> ○ 1/8" ○ 5/32" ○ 3/16" ○ 1/4" ○ 5/16" ○ 3/8" ○ 1/2" 	<p>"C" PROFILE</p>	<p>1-1/2 TIMES ACTUAL SIZE</p> <table border="1"> <tr> <td>A</td> <td>.030"</td> <td>.045"</td> <td>1/16"</td> <td>3/32"</td> <td>1/8"</td> </tr> <tr> <td>B</td> <td>1/16"</td> <td>3/32"</td> <td>7/64"</td> <td>5/32"</td> <td>13/64"</td> </tr> <tr> <td>C</td> <td>-</td> <td>-</td> <td>13°</td> <td>13°</td> <td>13°</td> </tr> </table>	A	.030"	.045"	1/16"	3/32"	1/8"	B	1/16"	3/32"	7/64"	5/32"	13/64"	C	-	-	13°	13°	13°
	A	.030"	.045"	1/16"	3/32"	1/8"														
B	1/16"	3/32"	7/64"	5/32"	13/64"															
C	-	-	13°	13°	13°															
<p>"CG" PROFILE</p>	<p>1-1/2 TIMES ACTUAL SIZE</p> <table border="1"> <tr> <td>A</td> <td>1/16"</td> <td>3/32"</td> <td>1/8"</td> <td>5/32"</td> <td>3/16"</td> </tr> <tr> <td>B</td> <td>7/64"</td> <td>11/64"</td> <td>7/32"</td> <td>19/64"</td> <td>11/32"</td> </tr> <tr> <td>C</td> <td>-</td> <td>5°</td> <td>5°</td> <td>5°</td> <td>5°</td> </tr> </table>	A	1/16"	3/32"	1/8"	5/32"	3/16"	B	7/64"	11/64"	7/32"	19/64"	11/32"	C	-	5°	5°	5°	5°	
A	1/16"	3/32"	1/8"	5/32"	3/16"															
B	7/64"	11/64"	7/32"	19/64"	11/32"															
C	-	5°	5°	5°	5°															

A-WIDTH OF ROD B-DEPTH OF ROD C-ANGLE OF INCIDENCE



DOWNLOAD GUIDE

CONSULT WITH CONN-WELD ABOUT OTHER SHAPES AND DESIGNS THAT WE CAN FABRICATE FOR YOUR APPLICATION.



MADE IN THE USA

APPLICATION AND SIZING

Each application presents its own challenge. Over the years, Conn-Weld has successfully addressed these challenges by engineering and designing profile wire shapes and screen configurations that are optimized for sizing, dewatering, filtering, and handling the most abrasive conditions. With extensive experience in profile wire applications, Conn-Weld is ready to respond to inquiries quickly and effectively.

Key considerations include:

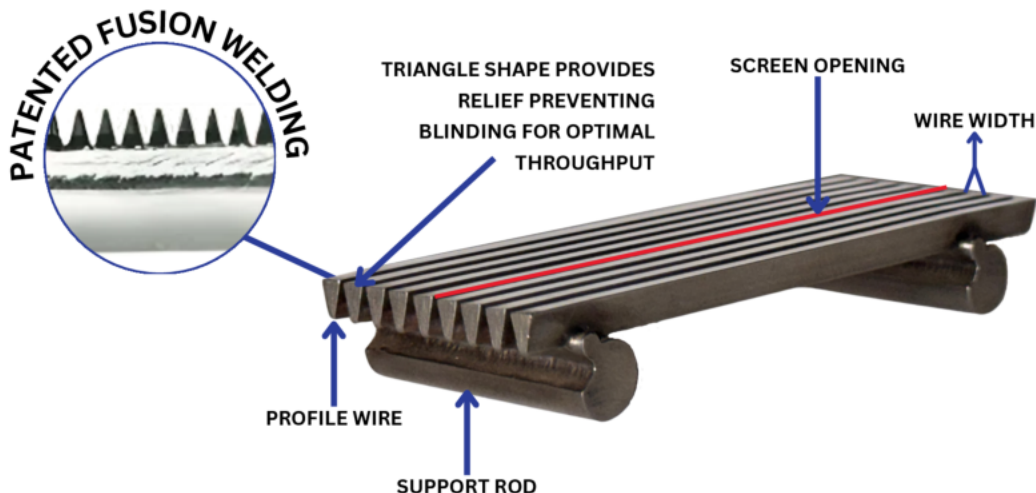
- ⚡ Choosing the correct wire size and opening size to ensure proper sizing and long service life.
- ⚡ Determining the tilt of the wire, which is critical to meeting application requirements.
- ⚡ The screen must be manufactured with strong enough support rods and fastened together by a reliable means to ensure no members will fail prematurely.
- ⚡ Conn-Weld has achieved these goals with **Tuff-Screens®**, providing durable, reliable performance.

CONN-WELD TUFF-SCREENS®

Screens must be manufactured with strong enough support bars and fastened together by a reliable means to ensure no members will fail prematurely. This is where Conn-Weld **Tuff-Screens®** comes in.

The heart of **Tuff-Screens®** is the **Fusion-Weld Process**, pioneered by Conn-Weld in 1975. Over the years, this process has proven to deliver superior screening efficiency, low maintenance, and long screen life, making it the ideal solution for operators seeking reliable performance.

CONN-WELD PROFILE WIRE SCREEN



CONSULT WITH CONN-WELD ABOUT OTHER SHAPES AND DESIGNS THAT WE CAN FABRICATE FOR YOUR APPLICATION.



Your Application in Mind

CUSTOM WIRE AND FRAMING

Our experienced team will work with you to find the right wire shape, openings, and framing for your application in addition to wear options such as chrome plating.

WIRE

Conn-Weld can shape material from .020 up to C1/8th in a variety of shapes, including wedge wire, round, square, flat, or custom shapes tailored to your application.

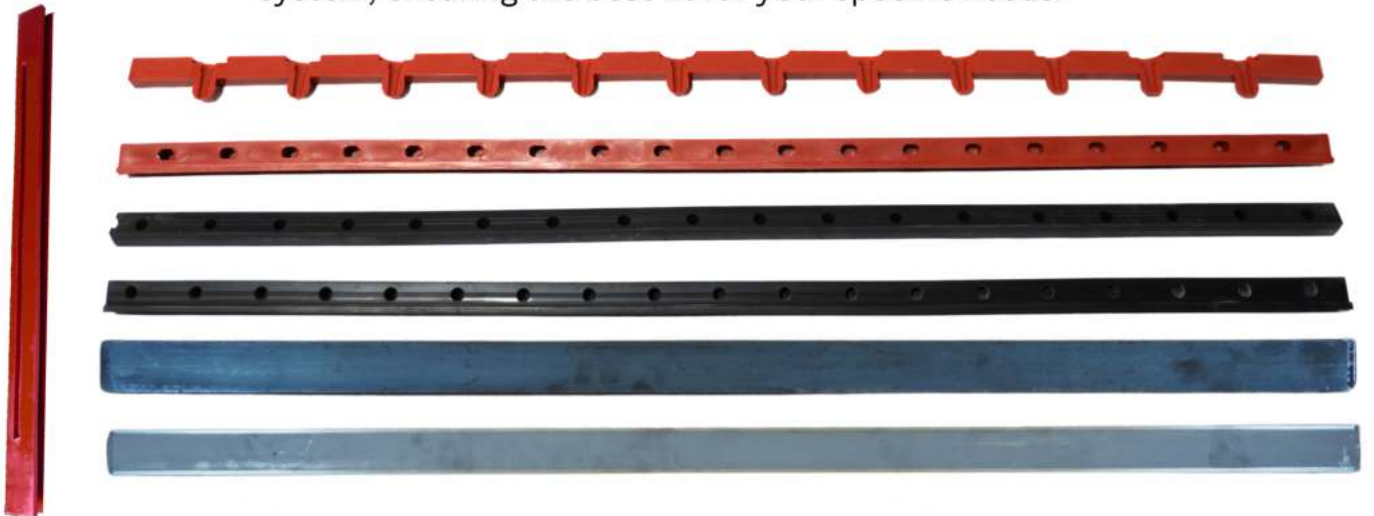


TIE RODS

Our tie rods are made from 304/316 stainless steel and are available in various sizes to support profile wire in panel assemblies, ranging from 1/8" to 1/2" square, round, or flat. Our experienced application engineers work with customers to determine optimal tie rod spacing, ensuring maximum open area without sacrificing support.

FRAMING

Conn-Weld offers framing for your screens in rubber, mild steel, stainless steel, and urethane. Additionally, our team is ready to accommodate any customer-preferred framing system, ensuring the best fit for your specific needs.



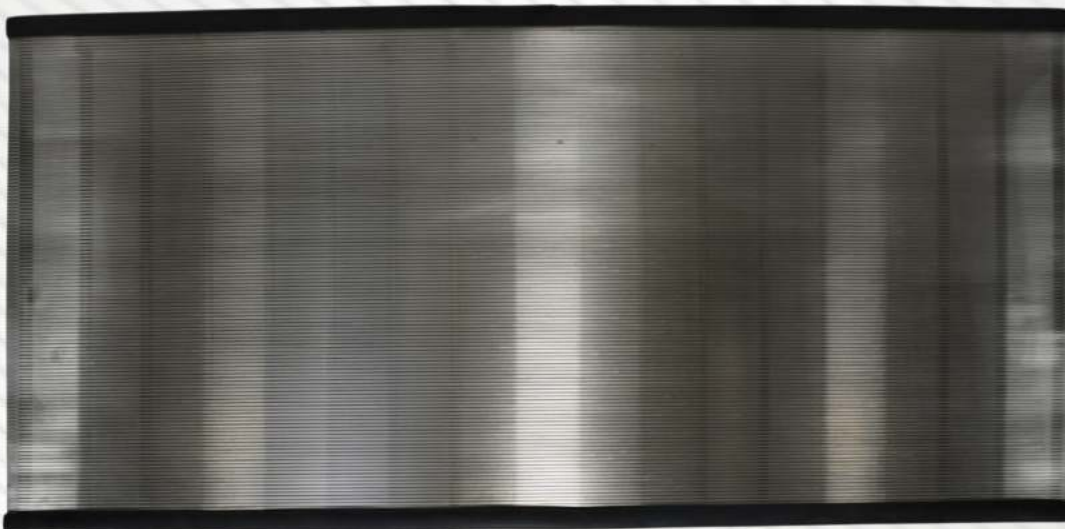
Since we manufacture our own tooling, we can easily accommodate special requests to provide tailored solutions. Contact us today.



FLAT PANELS

Conn-Weld's Flat Panels are customized to fit a variety of applications, including chute work, vibrating screens, flat bottom sieves, and other filtration equipment.

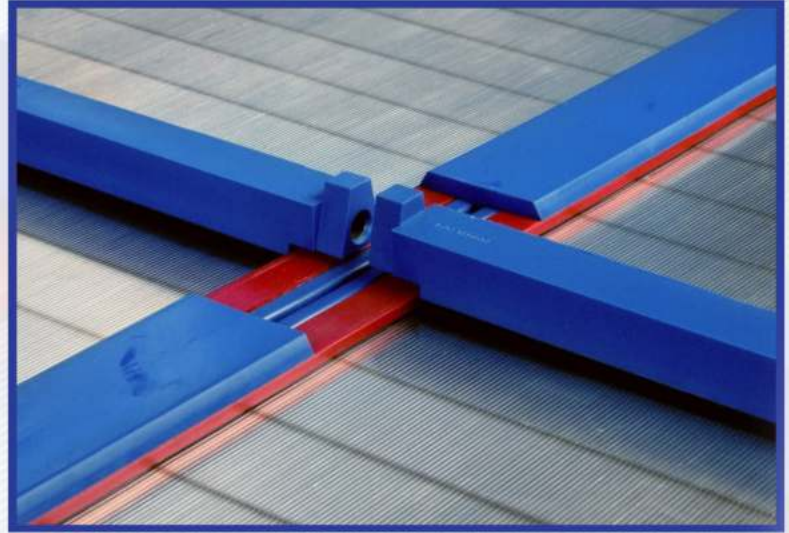
- ⚡ Adjustable tie rod spacing for more open area without compromising support.
- ⚡ Edging options include urethane, rubber, mild steel, or stainless steel.
- ⚡ Panels can be cut to any shape and any size, including triangle, round, custom designs.
- ⚡ Framing provided in 3" to 4" down to ½" or ¼" thick or per application requirements.
- ⚡ Skid bars are introduced on feed end to absorb impact.



Types of Flat Panels

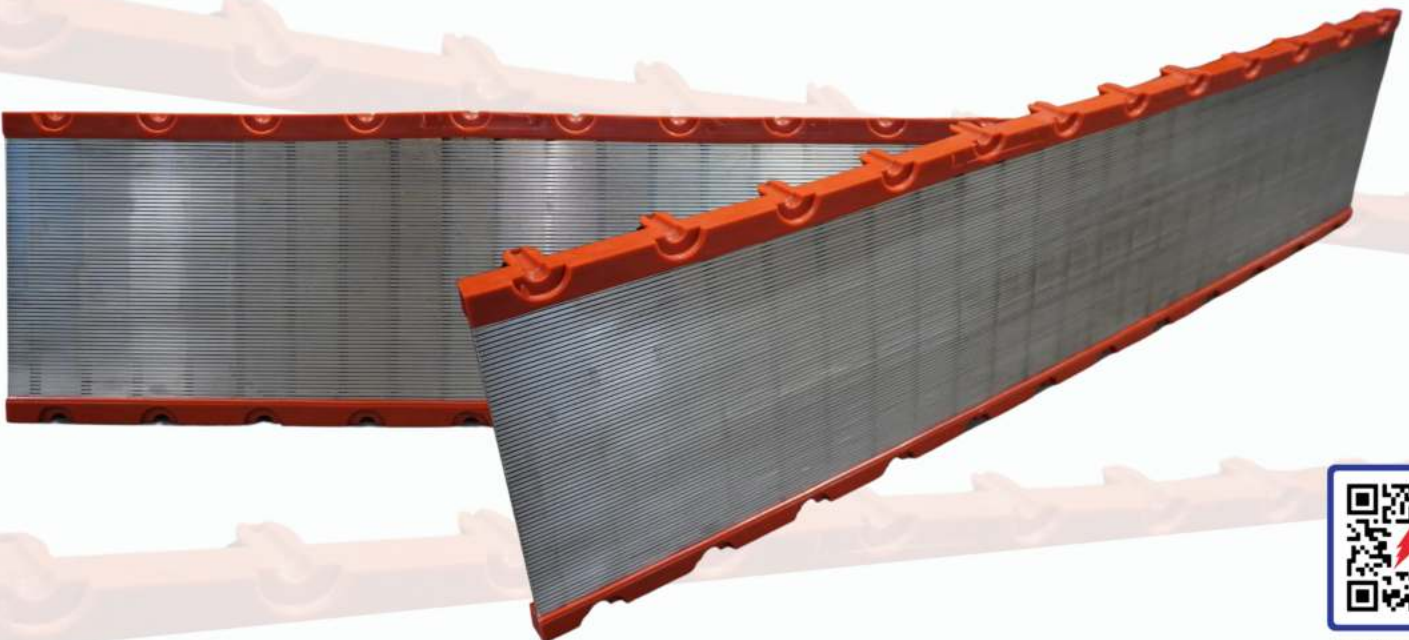
CONN-WELD PATENED PANELOK SYSTEM

- ⚡ Years of proven performance.
- ⚡ Widely used in the coal industry.
- ⚡ Great for maintenance.
- ⚡ Patented design for easy snap-in.
- ⚡ Available in various sizes:
1' x 2', 1' x 4', 2' x 2', 2' x 4'.



PIN-STYLE EDGE PANELS

- ⚡ Designed per application.
- ⚡ Offered in 2-pin per foot or 3-pin per foot.
- ⚡ 30-mm, 40-mm, and 50-mm thicknesses.
- ⚡ Panels available in 1' x 1', 1' x 2', 1' x 4', 1' x 5'.
- ⚡ Other sizes available based on application.



CONN-WELD SIEVES

Conn-Weld manufactures a wide range of profile wire sieve screens used in multiple industries. Available in flat, curved, and cylindrical with particle separation ranging from 50 microns and up. Profile wire sieves screens are manufactured with a sharp cutting edge to slice away slurry and prevent blinding. Our two-way tilt design can be flipped to double screen life.

Static Sieves | Fine Wire Sieves | DSM Screen | Hydro Sieves

STATIC SIEVES

- ⚡ Designed for both liquid/solid and solid/solid separations.
- ⚡ Configurable wire size, opening, tilt, and framing per application.
- ⚡ Available in stainless steel, carbon steel, and chrome plating.



Learn More

VISIT OUR WEBSITE TO LEARN MORE ABOUT CONN-WELD'S CUSTOM EQUIPMENT FOR STATIC SIEVES SUPPORTING NUMEROUS INDUSTRIES SUCH AS FIXED FLAT SIEVES.

DSM SCREEN

- ⚡ .030 Wire.
- ⚡ Available in various sizes down to .02" opening.
- ⚡ Type 316L Steel for Corn-Processing Industry.
- ⚡ Two-way flow flip-ability screen.

FINE WIRE SIEVES

Conn-Weld manufactures a wide range of profile wire sieve screens used in multiple industries today. Available in flat, curved, and cylindrical with particle separation ranging from 50 microns and up. Profile wire sieve screens are manufactured with a sharp cutting edge to slice away slurry and prevent blinding. Our two-way tilt design can be flipped to double screen life.

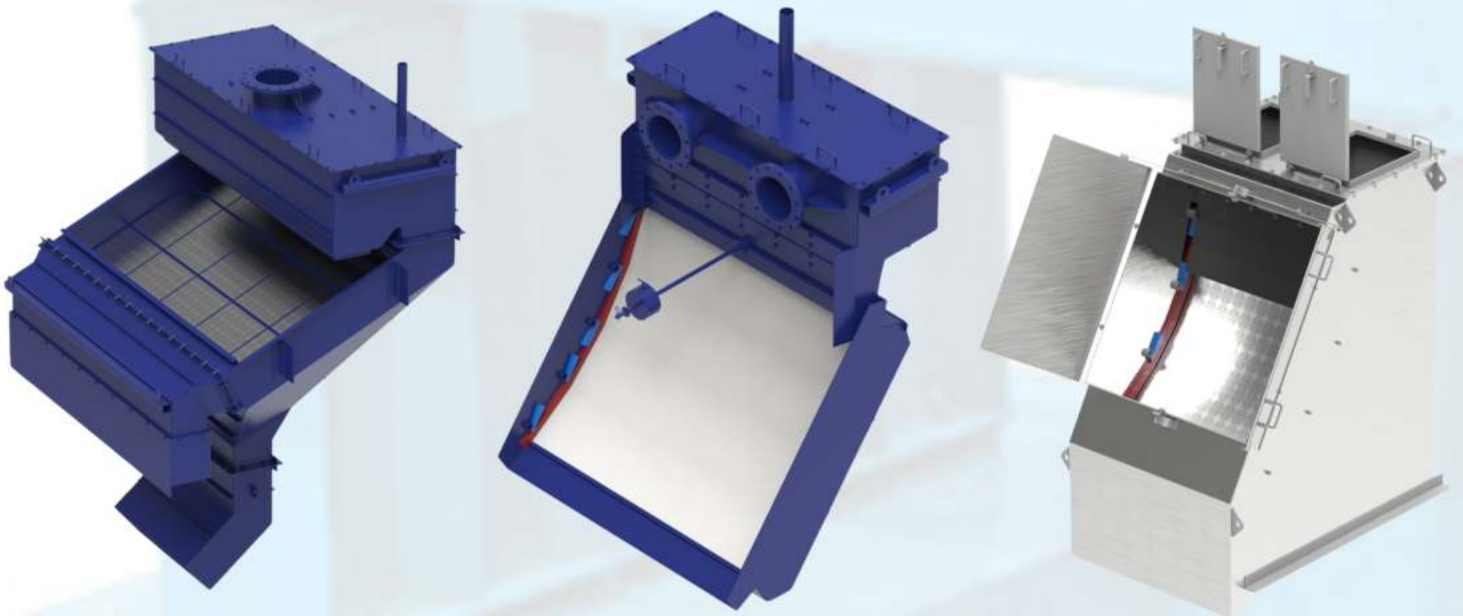


- ⚡ Conn-Weld Profile Wire proven to last longer in tests.
- ⚡ Wire sizes down to .02".
- ⚡ Sharp cutting edge to cut material, preventing blinding.
- ⚡ Various width, arcs, and radii customized per application.
- ⚡ Recover more tons and reduce ash content in product.



Learn More

VISIT OUR WEBSITE TO LEARN MORE ABOUT FULLY CUSTOMIZABLE EQUIPMENT FOR FINE WIRE SIEVES SUCH AS CONN-WELD'S CURVED SIEVE UNITS OR UPRISING SIEVES



HYDRO SIEVES

Hydro-Sieve also known as Waterfall Sieves is an efficient sieve using proven technology to screen out sediment and aquatic life.

Conn-Weld uses tilted wedge wires to create a cutting action on the upstream sides of the wires that greatly enhance throughput over traditional wedge wire screens.



- ⚡ All stainless-steel construction.
- ⚡ Hydro-Sieve can screen particles to 60 mesh and for heavy-duty needs.
- ⚡ Grizzly protection ribs can be added to protect the sieve during floods.
- ⚡ Flow relief gate reduce discharge flow barriers which can cause splashing and icing during cold months.



Learn More

FOR MORE INFORMATION REGARDING HYDRO-SIEVE CAPACITY, MULTIPLE APPLICATION CASES, AND PRODUCT OPTIONS BE SURE TO LEARN MORE BY VISITING OUR WEBSITE



In Application

CONN-WELD BASKETS

Conn-Weld's exclusive wedge wire baskets are the most durable in the industry. Utilizing a patented fusion-welding process, Conn-Weld equipment can hold very close tolerances while providing a basket that will stand up to the toughest applications.

Pressure Screen Baskets | Outlet Collector | Coater Baskets | Centrifuge

In tests, Conn-Weld's wedge wire baskets beat the competition with customers seeing improved operating efficiency, reduced energy cost. Customized with your application in mind, Conn-Weld provides wire size and openings to meet your specific requirements.

- ⚡ Wedge wire slotted baskets with slots down to 0.076mm (0.003").
- ⚡ Sidehill screens and replacement screen mats.
- ⚡ Water filter baskets.
- ⚡ Intake Screens.
- ⚡ Cylinders for screw presses.
- ⚡ Coater baskets.
- ⚡ Roaster basket.
- ⚡ Pulp & Paper Baskets.
- ⚡ Improved overall fiber length and quality.



Types of Baskets

CENTRIFUGE BASKETS

The performance of Conn-Weld's full line of centrifuge screens begins with the wire. Through extensive research we have developed a "high-edge" wire that provides sharp leading edges to break surface tension minimizing the break-in period.



Conn-Weld customizes wire sizes and slot configurations for optimal performance for all applications. Additionally, Conn-Weld is constantly expanding our tooling to provide operators with profitable solutions. Our manufacturing capabilities enable us to manufacture any brand of centrifuge basket - just let us know your needs.

- ⚡ Available in both horizontal and vertical designs.
- ⚡ Exterior bracing and outer rings designed to eliminate weight without sacrificing strength.
- ⚡ Dynamically machine balanced to extend the life of the screen, bearings, and entire centrifuge machine.

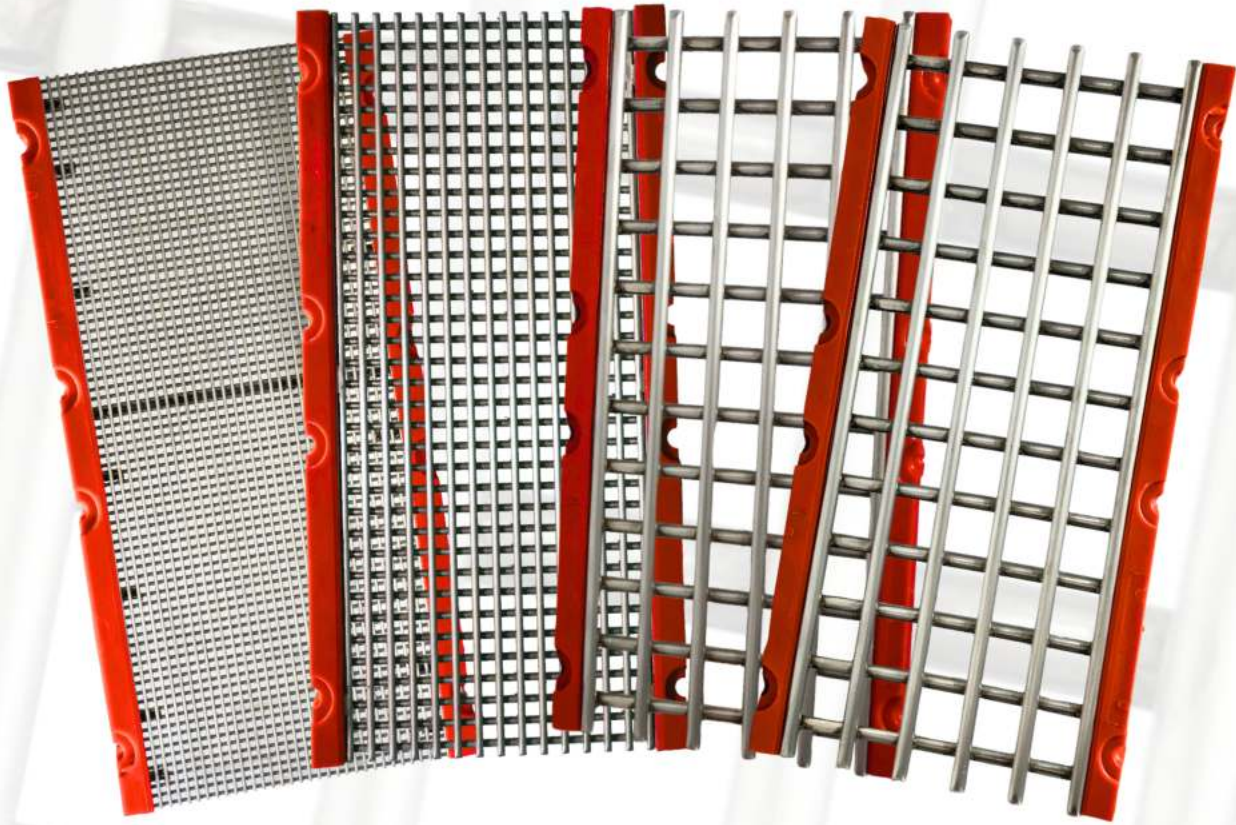


Centrifuge Baskets

CONN-WELD IS CONSTANTLY EXPANDING OUR TOOLING TO
PROVIDE OPERATORS WITH PROFITABLE SOLUTIONS.

CONN-WELD TUFF-WIRE

When it comes to tough applications, you can rely on Conn-Weld's Tuff line of screen media. Manufactured in Conn-Weld's facility enables us to customize per application.



Shown with Conn-Weld Urethane Edging available in 30mm, 40mm, 50mm thicknesses and 2-pin or 3-pin foot variations.

- ⚡ Apertures available down to 1/8 inch or per application.
- ⚡ Wire sizes 1/8 , 1/4, 3/8, 1/2 round wire.
- ⚡ Screening designed to go with or against flow of material.
- ⚡ Additional framing options are available for customized applications.

ASSEMBLED USING CONN-WELD'S PATENTED FUSION WELDING PROCESS FOR SUPERIOR DURABILITY.

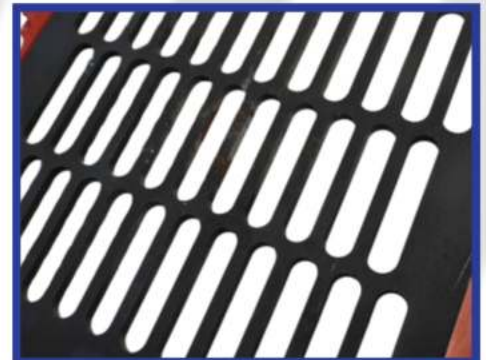
CONN-WELD TUFF-PLATE

Computer Automated Design (CNC) combined with precision manufacturing assure your specific screen type and opening is achieved.



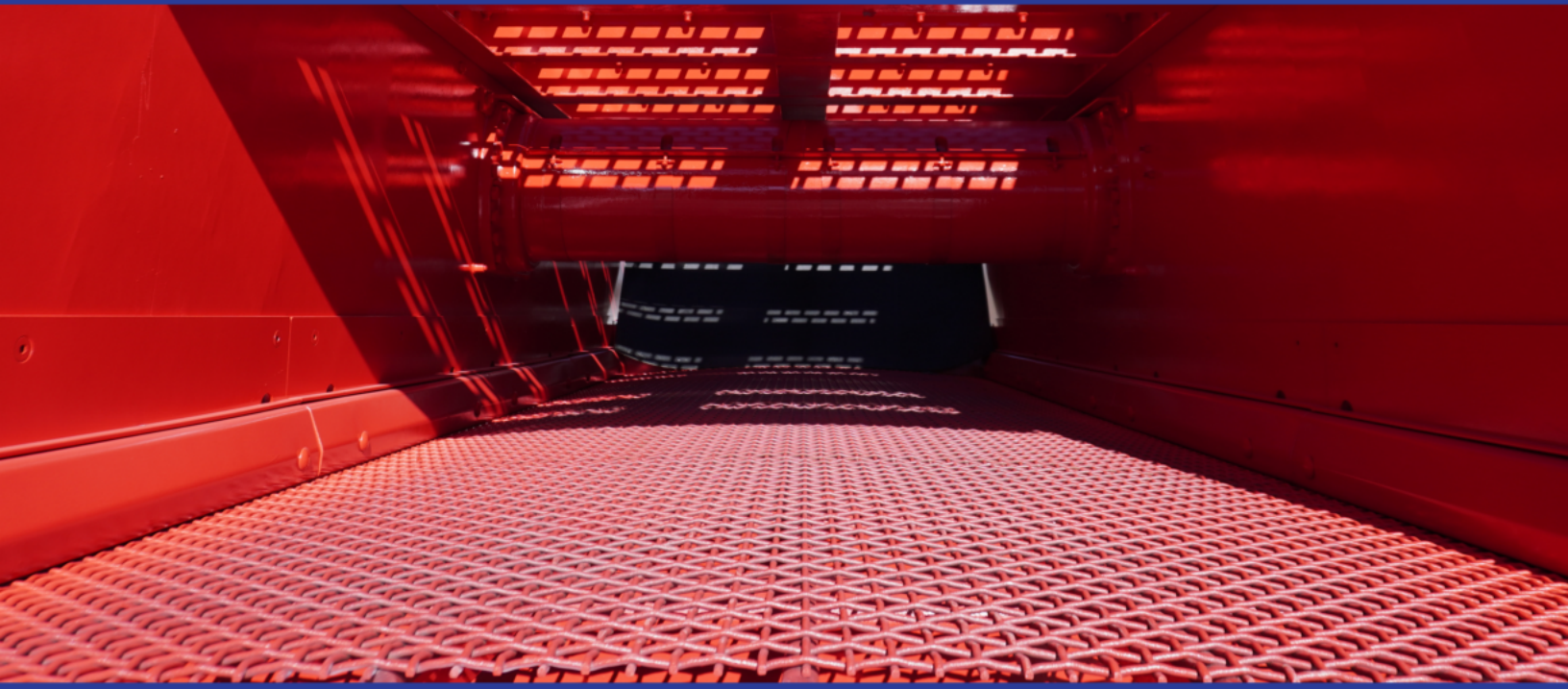
Shown with Conn-Weld Urethane Edging in various thicknesses and 2-pin or 3-pin per foot variations.

- ⚡ Available in slotted, square, round, angled, or octagon openings.
- ⚡ Ranges from 1/4", 5/16", to 3/8".
- ⚡ Offered in 1 x 1, 1 x 2, and 1 x 4 sizes.
- ⚡ Available in AR 400 or Stainless Steel for enhanced durability.
- ⚡ Additional framing options are available for customized applications.

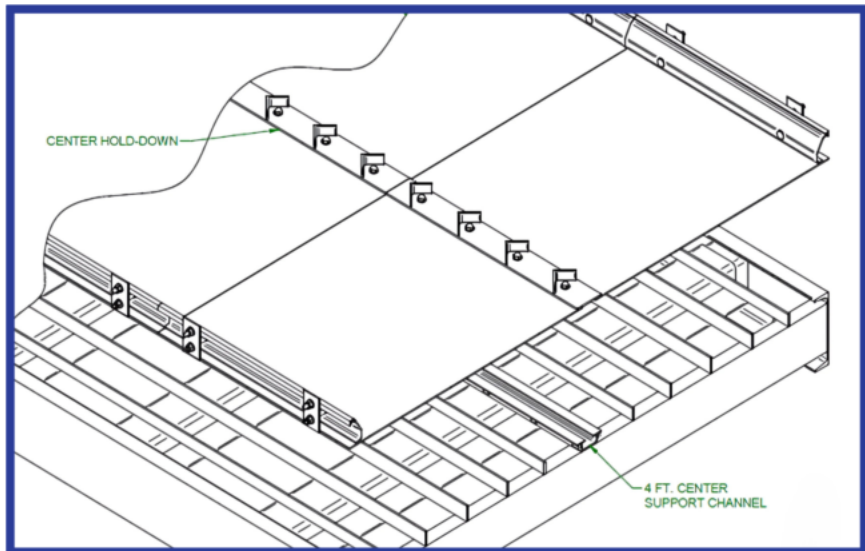
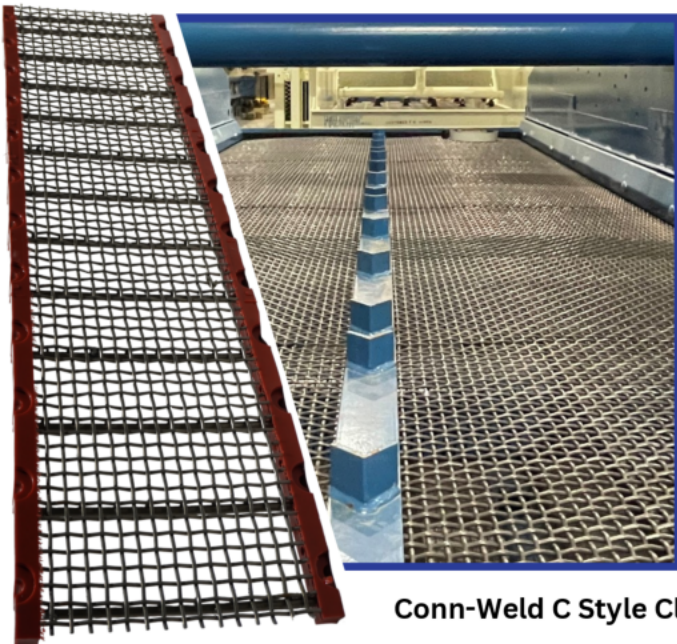


WOVEN WIRE

Conn-Weld offers woven wire in carbon steel oil bath wire, stainless steel, and other alloys.



- ⚡ Available in a variety of openings.
- ⚡ A range of wire diameters to suit your application.
- ⚡ Compatible with Pin Style, Tuff-Rail, Panelok, Hook.



Conn-Weld C Style Clamping bar system with center hold-downs.

CONN-WELD TUFF-RAIL

Tuff-Rail systems use a urethane edge to integrate profile wire, perforated plate, welded wire, and urethane panels into a modular system, secured with a recessed strip or rail.



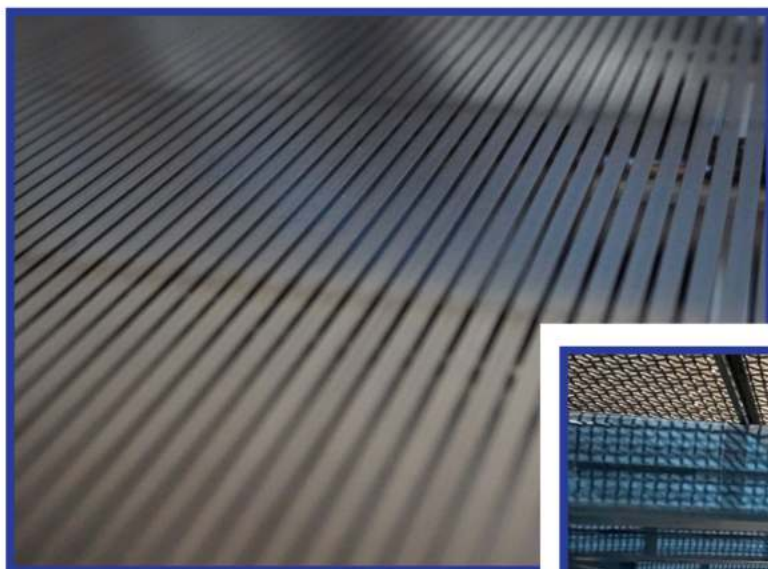
- ⚡ Tuff-Rail accommodates 2' x 1' and 2' x 2' screen panels.
- ⚡ A variety of screen openings per application.
- ⚡ Custom surface feature options.

CONN-WELD KEY LOCK SYSTEM

The Conn-Weld Key Lock System is compatible with:

- ⚡ 2' x 4' profile wire panels with 1' x 1' rubber edging.
- ⚡ Punch plate (no edging).
- ⚡ Center hold-down.
- ⚡ Center hold-down cap bar.





Learn More

CONN-WELD SUPPLIES A WIDE VARIETY OF SCREEN MEDIA AND HOLD-DOWN SYSTEMS MAKING STREAMLINING YOUR PURCHASE EASY. OUR EXPERIENCED TEAM WORKS WITH CUSTOMERS SPECIAL REQUESTS PROVIDING THE BEST SOLUTION FOR YOUR APPLICATION.



PROFILE WIRE

MADE IN THE USA



CONN  WELD

URETHANE



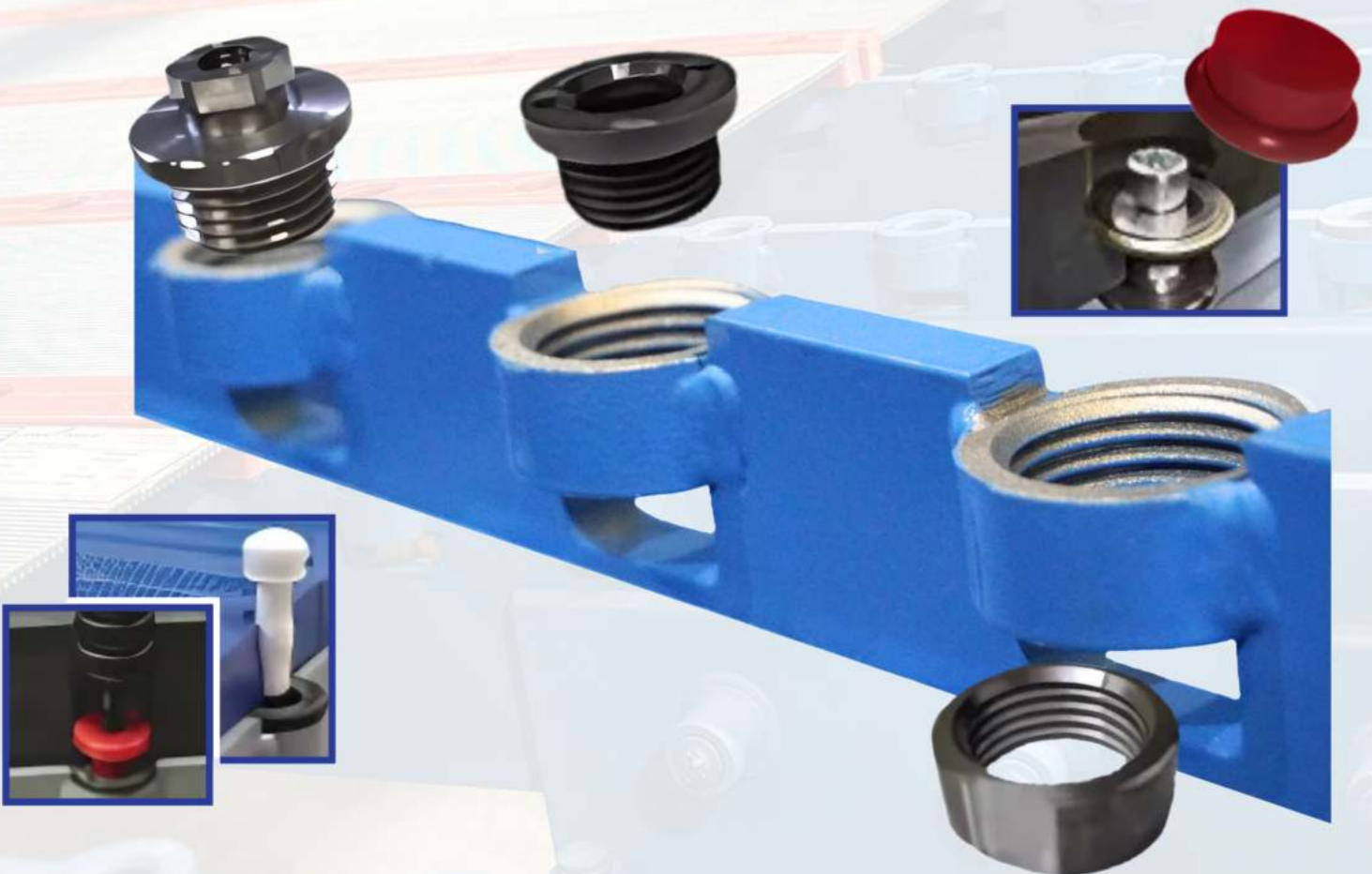
URETHANE



MADE IN THE USA

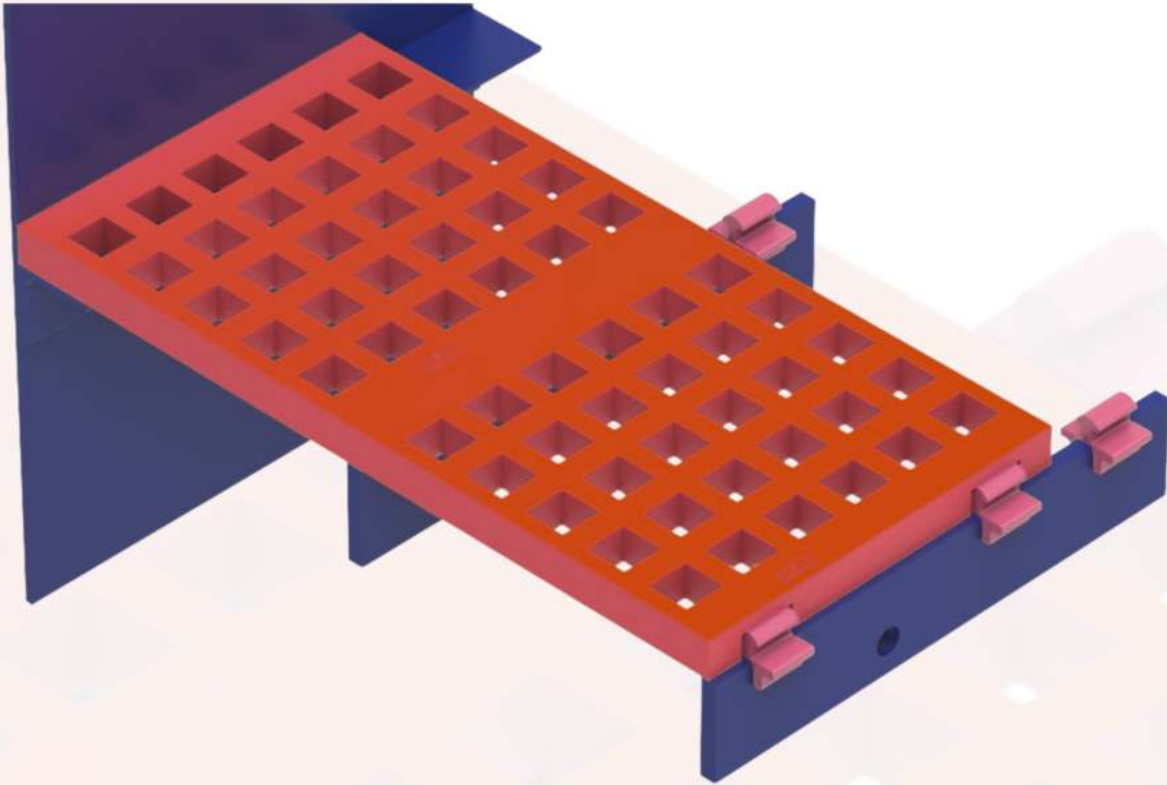
CONN-WELD E-Z BAR

The E-Z Bar System maximizes effective open area on the screen deck and ensures cost-effective maintenance. It features replaceable ferrules for high-wear applications and offers flexibility to use a variety of screen media, customized for each unique application.



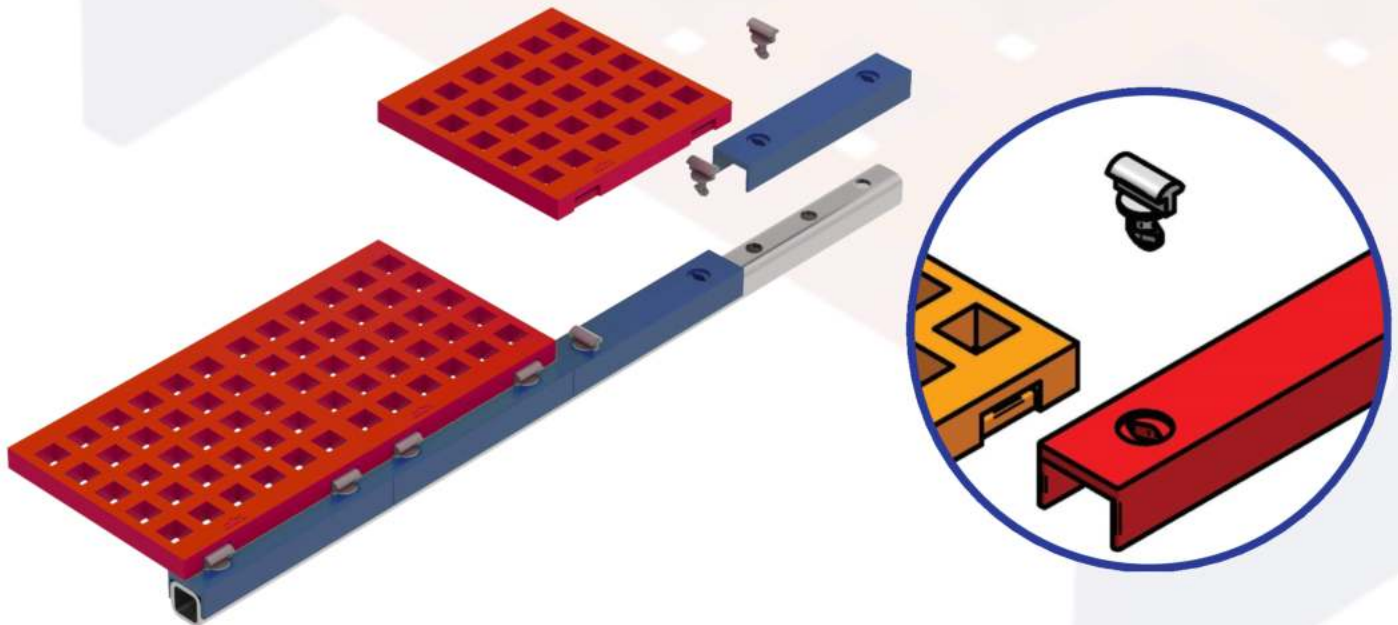
CONN-WELD'S TUFFLOK®

TUFFLOK® urethane panels and hold-down systems offer an efficient screening solution while providing the added benefit of easy maintenance, ensuring optimal performance and reduced downtime.



TUFFLOK II®

TUFFLOK II® brings ease of maintenance and changeability to your operation utilizing a rotating locking pin. The **TWISTLOK®** pin is inserted into a tube cover then twisted 90° expanding the “feet” locking the panel in place.



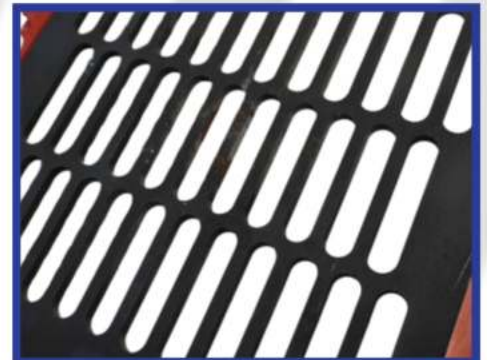
CONN-WELD TUFF-PLATE

Computer Automated Design (CNC) combined with precision manufacturing assure your specific screen type and opening is achieved.



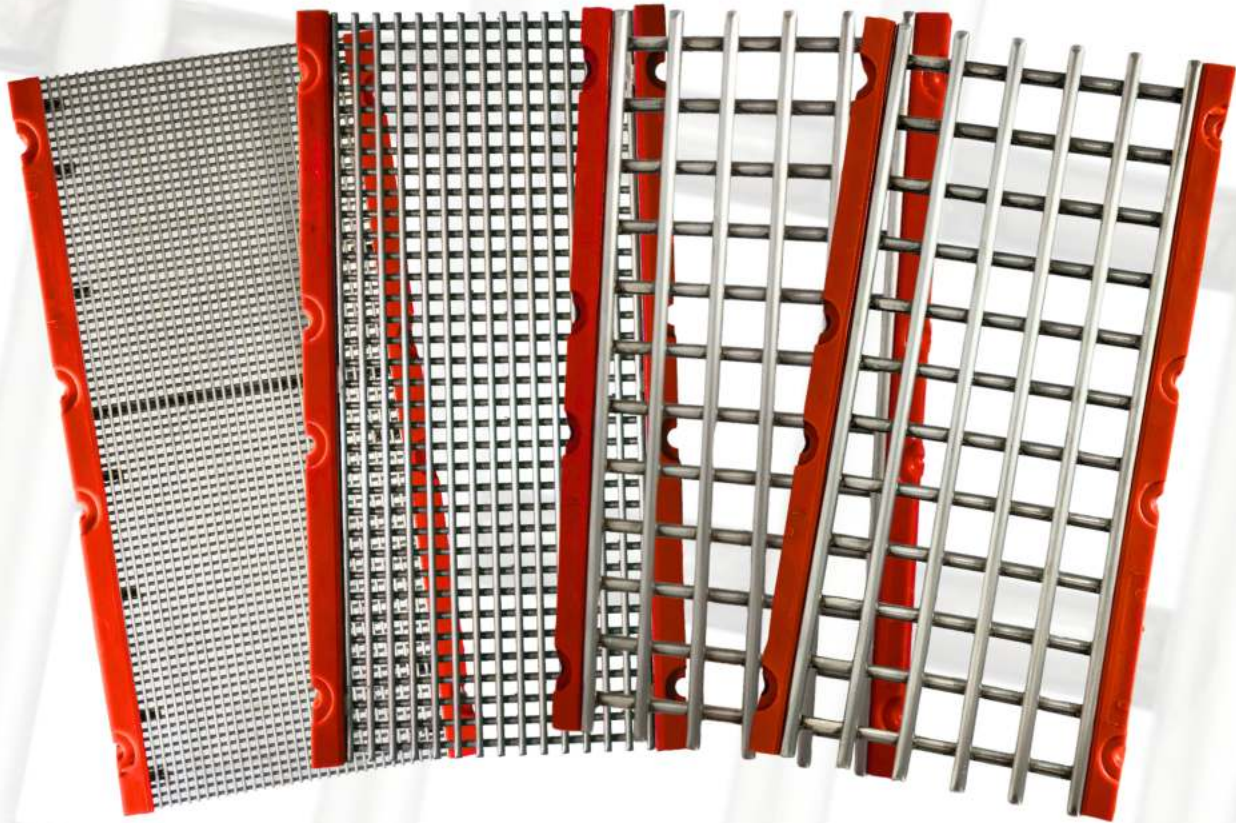
Shown with Conn-Weld Urethane Edging in various thicknesses and 2-pin or 3-pin per foot variations.

- ⚡ Available in slotted, square, round, angled, or octagon openings.
- ⚡ Ranges from 1/4", 5/16", to 3/8".
- ⚡ Offered in 1 x 1, 1 x 2, and 1 x 4 sizes.
- ⚡ Available in AR 400 or Stainless Steel for enhanced durability.
- ⚡ Additional framing options are available for customized applications.



CONN-WELD TUFF-WIRE

When it comes to tough applications, you can rely on Conn-Weld's Tuff line of screen media. Manufactured in Conn-Weld's facility enables us to customize per application.

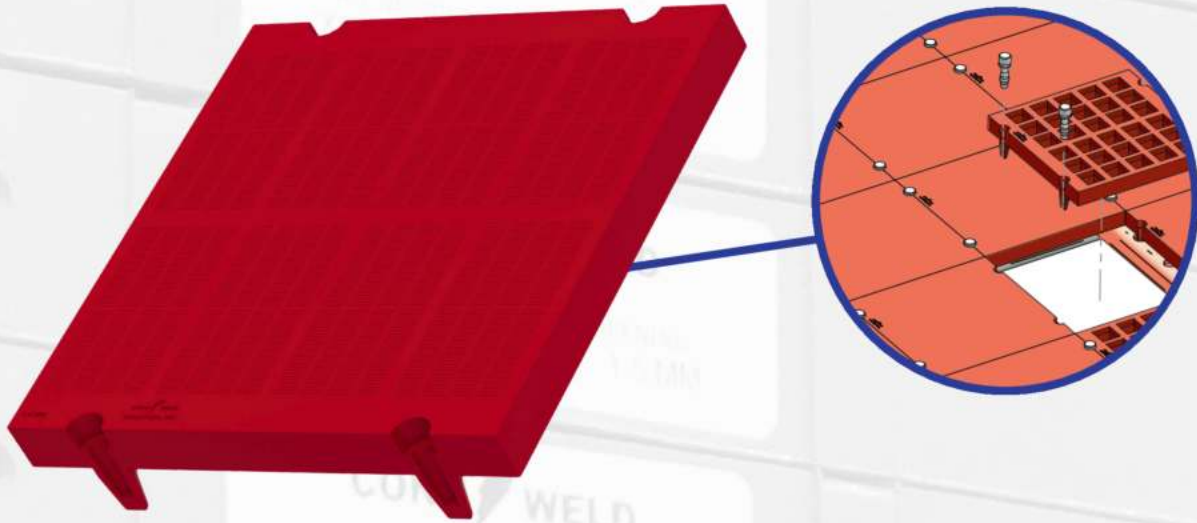


Shown with Conn-Weld Urethane Edging available in 30mm, 40mm, 50mm thicknesses and 2-pin or 3-pin foot variations.

- ⚡ Apertures available down to 1/8 inch or per application.
- ⚡ Wire sizes 1/8 , 1/4, 3/8, 1/2 round wire.
- ⚡ Screening designed to go with or against flow of material.
- ⚡ Additional framing options are available for customized applications.

ASSEMBLED USING CONN-WELD'S PATENTED FUSION WELDING PROCESS FOR SUPERIOR DURABILITY.

PIN-STYLE EDGE PANELS



- ⚡ Available in 2-pin per foot or 3-pin per foot configurations.
- ⚡ Offered in 30mm, 40mm, and 50mm thicknesses.
- ⚡ Available in 1' x 1', 1' x 2', 1' x 4', 1' x 5', or custom sizes based on application needs.

CONN-WELD TUFF-RAIL

Tuff-Rail systems use a urethane edge to integrate profile wire, perforated plate, welded wire, and urethane panels into a modular system, secured with a recessed strip or rail.



- ⚡ A variety of screen openings per application.
- ⚡ Custom surface feature options.
- ⚡ Tuff-Rail accommodates 2' x 1' and 2' x 2' screen panels.

VENO ANTI-PEGGING



- ⚡ **Prevents Plugging:** Reduces material buildup and blockages.
- ⚡ **Proven Efficiency:** Delivers consistent performance in screening applications.
- ⚡ **Added Flexibility:** Allows for panel movement, preventing blinding and reducing stress during operation.

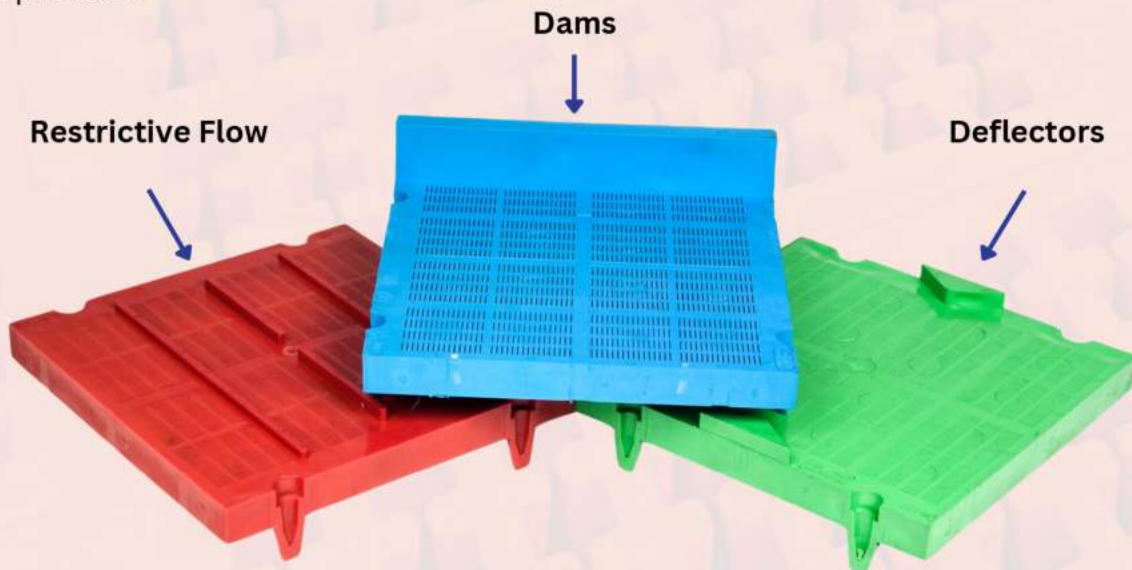


CONN-WELD URETHANE PANELS

Conn-Weld offers a range of specialized filtration panels designed to optimize material flow and improve filtration efficiency. Each panel is engineered to address specific challenges in your filtration process, ensuring consistent, high-quality performance.



- Red Panel:** Features a restrictive flow design that slows down the material, allowing for more effective filtration by giving it more time to pass through the screen.
- Blue Panel:** Incorporates a large end-dam, which reduces the flow of media over the screen, ensuring a more controlled filtration process and preventing overloading of the screen surface.
- Green Panel:** Utilizes side-guides, also known as deflectors, to maintain material over the screen openings, preventing material from bypassing the filtration surface and enhancing the overall filtration process.



Contact us today to learn how Conn-Weld can enhance your filtration process with the right features for your application.

CONN-WELD URETHANE

Conn-Weld offers a range of specialized filtration panels designed to optimize material flow and improve filtration efficiency. Each panel is engineered to address specific challenges in your filtration process, ensuring consistent, high-quality performance.



Openings:

- ⚡ 0.25mm to 2" slotted openings for a wide range of material sizes.
- ⚡ Anti-pegging/Non-blinding openings to improve filtration and prevent clogging.
- ⚡ High open area panels that enhance screening capacity and throughput.

Panel Sizes & Thicknesses:

- ⚡ 1' x 1' panels available in thicknesses ranging from 30mm to 50mm for customizable performance.
- ⚡ Up to 2' x 4' open cast molded urethane panels for applications requiring larger media.

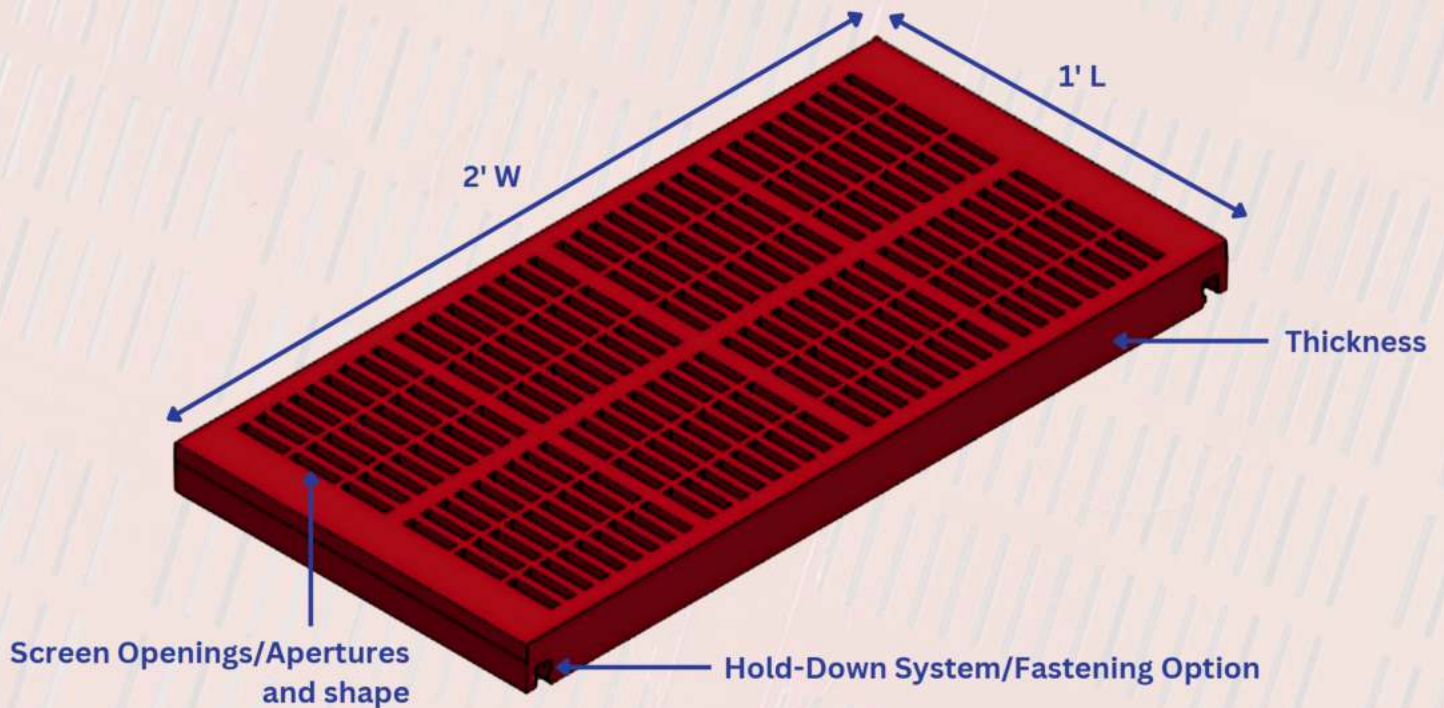
Panel Customization: Slotted | Square | Anti-pegging | Solid



Slotted openings are Available in sizes ranging from 2" x 10" down to 0.25mm, offering versatile options for different screening applications.

URETHANE SCREEN PANEL OVERVIEW

The anatomy of a screen panel includes key components designed to optimize material processing, increase efficiency, and enhance durability in harsh environments.



- ⚡ **Screen Surface:** The surface area where material is filtered.
- ⚡ **Aperture:** Screen openings The size of the screen opening, typically measured in inches or millimeters, dictates the size of the material that can pass through.
- ⚡ **Shape of Openings:** Screen openings can be manufactured in a variety of shapes. Rectangular shown for reference.
- ⚡ **Thickness:** Application-specific based on material characteristics, operating conditions, and screen media requirements.
- ⚡ **Hold-Down System:** The fastening option used to hold screen panels in place during operation. Tuff-Rail shown for reference.
- ⚡ **Panel Sizes:** Panels are measured width x length of equipment and are available in customizable dimensions, including 1 x 1, 1 x 2, and 2 x 1.



TABLE OF CONTENTS

- 3** Urethane Screen Panel Overview
- 4** Conn-Weld Urethane
- 7** Conn-Weld Pin Style Edge Panels | Tuff-Rail
- 8** Conn-Weld Tuff-Wire
- 9** Conn-Weld Tuff-Plate
- 10** Conn-Weld's TUFFLOK® | Conn-Weld's TUFFLOK ||®
- 11** Conn-Weld E-Z BAR

PURCHASING MADE EASY FOR YOUR INDUSTRY

COAL | AGGREGATES | HARDROCK & INDUSTRIAL MINERALS | RECYCLING

Conn-Weld: Your Complete Source for Equipment and Screen Media

Conn-Weld offers a full range of screen media and hold-down systems, simplifying your purchasing process. From equipment to media, our knowledgeable team collaborates with you to provide customized solutions that ensure seamless integration and optimal performance.



Mailing Address
P.O. Box 5329
Princeton, WV 24701

304-487-1421 / (f) 304-487-3761
sales@conn-weld.com
conn-weld.com