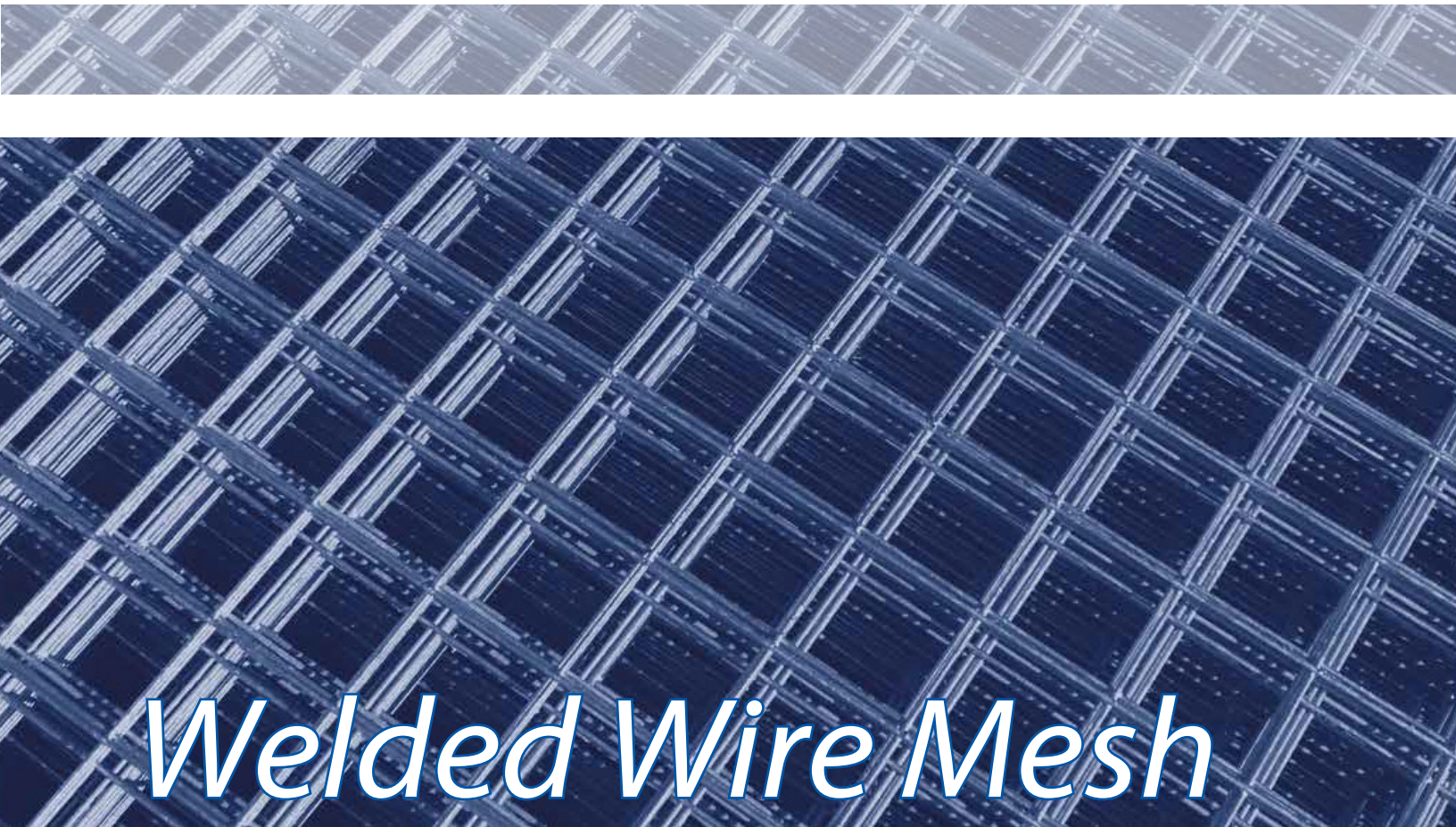


**DORSTENER WIRE TECH**



*Welded Wire Mesh*



# ***Welded Mesh - a safe solution***





## Industry, construction and agriculture

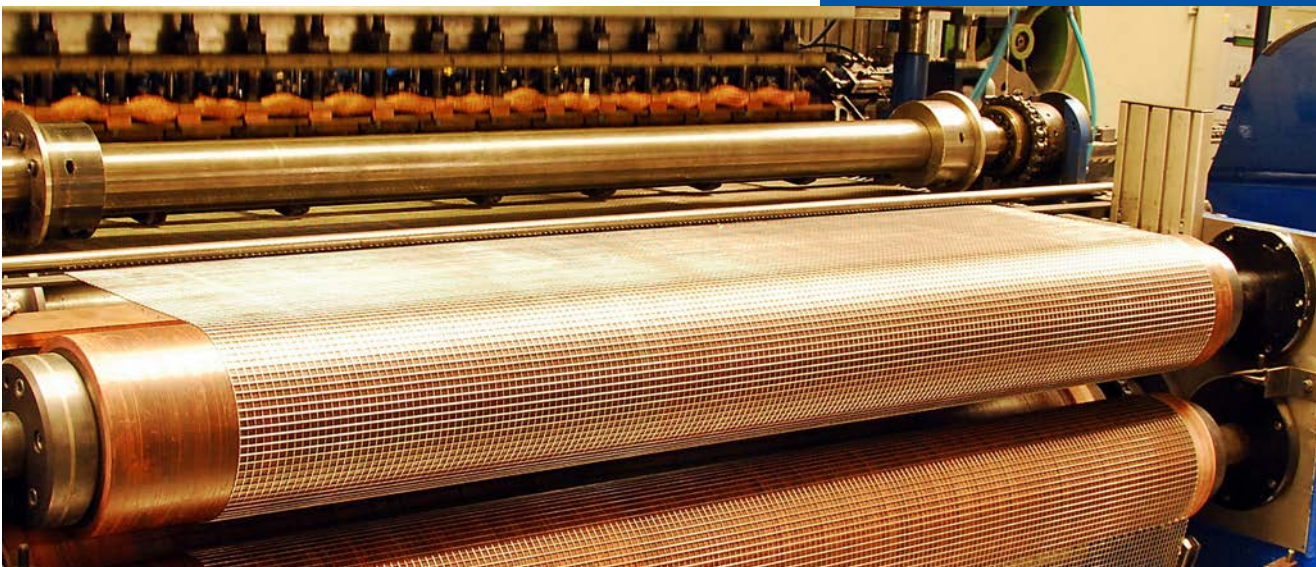
From aerospace to reinforcement in construction, our welded mesh is used in all kinds of industries. Some applications are: guards, material handling, separation, security and decoration.

We have a wide variety of standards available. If we do not have the specification you need in stock (material, opening, wire diameter and surface condition) we will produce it according to your needs.

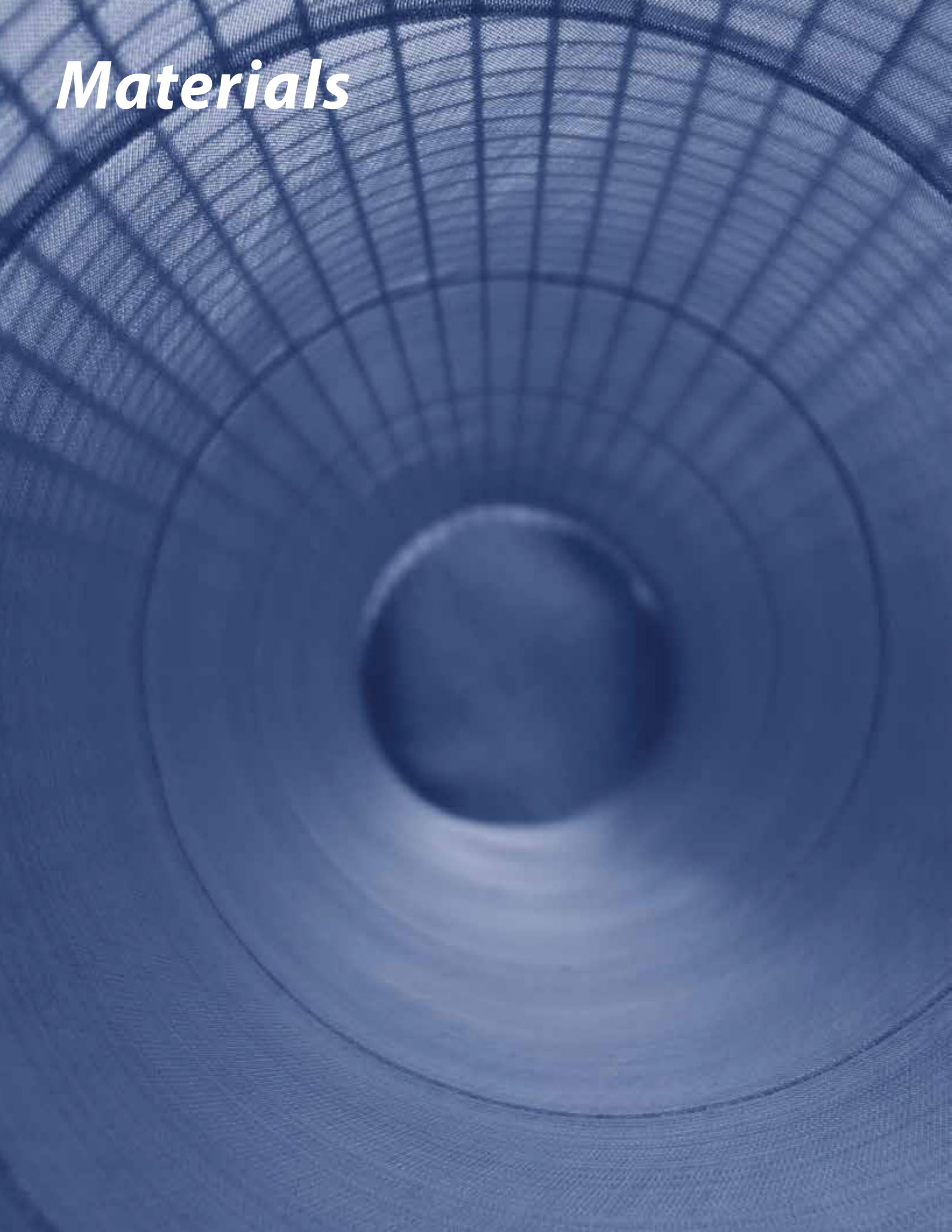
## Production

Longitudinal and cross wires are resistance welded at every intersection with a tight metallurgical bond. The metallic wire mesh can be flexible or rigid, light and open, or heavy and strong.

We have more than 60 years of experience in welding wire mesh and we continue to improve our process and products utilizing state of the art welding equipment. Our innovative and motivated team produces precise mesh and can fabricate accurate products that will meet your requirements.



# ***Materials***





## Materials and protective coatings

### Stainless steel

AISI 304, AISI 304L, AISI 316, AISI 316L.

### Heat and corrosion resistant alloys

AISI 310/314, AISI 309, Inconel 600, Alloy 20, Duplex. Super duplex and many other alloys are available.

### Low carbon steel

- Bright, basic finish.
- Copper coated/copper flashed wire prior to welding  
Aids in the adhesion of nickel coatings once the mesh is fabricated (i.e.: fry baskets).
- GBW-Electro-Galv  
Electro galvanized wire prior to welding: corrosion control, bright clean surface, no zinc in weld areas. Suitable for interior and/or dry applications.
- GBW-Hot dipped  
Hot dipped galvanized wire prior to welding: better corrosion control, matte finish, no zinc in weld areas. Suitable for dry and moist environments.
- GAW-Hot dipped  
Hot dipped galvanized after welding: superior corrosion control, bright finish, weld areas are encapsulated with zinc. Suitable for wet environments.
- Epoxy coated  
Superior corrosion control, painted finish (black/green), weld areas are encapsulated with epoxy paint. Suitable for wet environments.

## Welded mesh for special requirements

New usages sometimes require mesh with unique wire shapes.

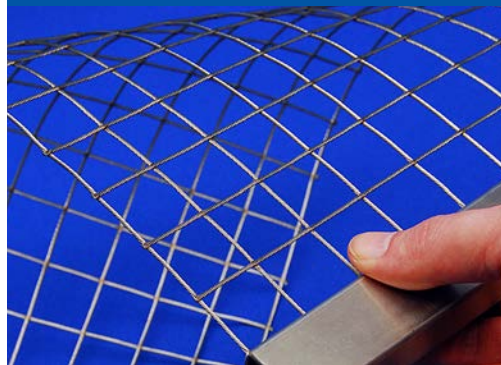
**Flex** – cable wires – make mesh more flexible.

**Flat** – flat wires – create very high stability or smooth surfaces.

**Sandwich** – this product combines woven filter mesh with weld wire mesh to enhance strength and stability.



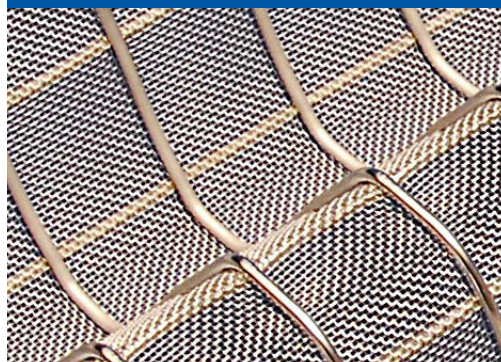
Material testing



Flex - cable wires



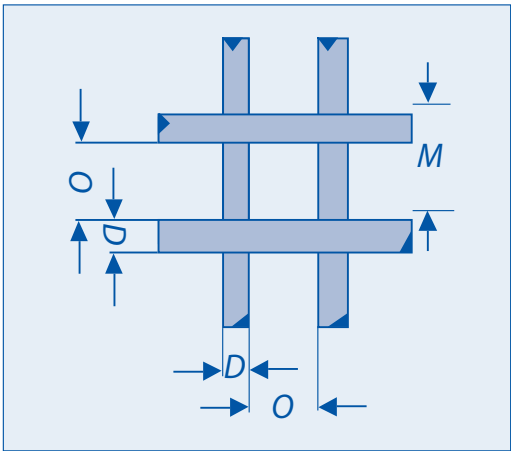
Flat - flat wires



Sandwich

## Welded mesh

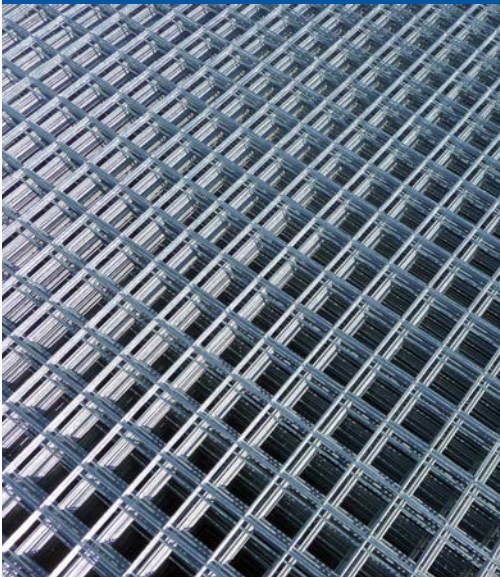
- Our state of the art machinery is ideally suited to weld stainless steel wire and annealed carbon steel wires with very precise openings. The openings can be square or oblong.
- As specialists for small opening welded mesh we develop and manufacture solutions for our customers.
- Annealed pleatable material.
- Custom designs up to 72" wide.



Wire Diameter "D"	0.020" - 0.105"
Opening "O"	0.125" - 4.00"
Mesh "M"	$P = W + D$



High performance air intake screens



Welded mesh





## Inventory

We can ship stainless steel and galvanized steel welded mesh from stock. Detailed information available on [www.dwt-inc.com](http://www.dwt-inc.com) in the section welded wire mesh.



Welded mesh rolls

## Stainless steel welded mesh specifications

CTC Distance	Wire Size	Roll Size	Description	Weight per sq foot based on carbon steel	% of open area
1/4" x 1/4"	0.022"	48" x 100'	4 mesh .022" 304ss welded	0.136	83.2
1/4" x 1/4"	0.025"	48" x 100'	4 mesh .025" 304ss welded	0.178	81.0
1/4" x 1/4"	0.028"	48" x 100'	4 mesh .028" 304ss welded	0.202	78.9
1/4" x 1/4"	0.032"	48" x 100'	4 mesh .032" 304ss welded	0.264	76.0
1/4" x 1/4"	0.047"	48" x 100'	4 mesh .047" 304ss welded	0.576	65.9
1/3" x 1/3"	0.047"	48" x 100'	3 mesh .047" 304ss welded	0.428	73.6
1/2" x 1/2"	0.047"	48" x 100'	2 mesh .047" 304ss welded	0.284	82.1
1/2" x 1/2"	0.063"	48" x 100'	2 mesh .063" 304ss welded	0.512	76.4
1" x 1"	0.080"	48" x 100'	1 mesh .080" 304ss welded	0.411	84.6

Please note all weights are theoretical calculations can vary from roll to roll  
Data is subject to review and can be changed at any time  
CTC = pitch or mesh count

## Heavy duty welded mesh

We manufacture to order.

Heavy welded mesh is produced from straightened, semi-hard or hard drawn wire into panels of mesh. The edges of the panels can be random or flush cut.

Openings can be square or oblong. Most special requirements in regards to the design or position of openings can be produced.



Heavy duty welded mesh

### Examples of standard specifications

Square Opening			
Spacing Cross Wires	Spacing Line Wires	Wire Gauge	Weight LBS/100 sqft
1/2"	1/2"	16	46
1"	1"	14	43
3"	3"	12	27
1"	1"	12.5	67
3"	3"	11	35

Rectangular Opening			
Spacing Cross Wires	Spacing Line Wires	Wire Gauge	Weight LBS/100 sqft
1"	1/2"	16	39
1/2"	1"	16	37
1"	1/2"	14	65
2"	1/2"	14	54
1"	2"	14	33
2"	1"	14	33
3"	1.5"	13.5	25
1/2"	1"	12.5	98
2"	1"	12.5	35

**We specialize in heavy welded stainless steel mesh.**





## D-NET industrial hardware cloth

Our product line D-NET features hot dipped galvanized welded mesh steel.

Our galvanized after welded (GAW) hardware cloth is industrial grade. All wires and welds are fully encapsulated with a strong zinc coating.

Our D-NET Blue brand has been specifically designed for industrial applications.

- High corrosion resistance.
- Unique wire chemistry allows for easy fabrication.
- Easy to flatten (minimum spring back when cut).
- Custom width rolls and cut pieces.

### Standard specifications for GAW

CTC Distance	Wire Size	Roll Size	DWT description
1/4" x 1/4"	23 Ga	24" x 100'	4 mesh 23 Ga
1/4" x 1/4"	23 Ga	36" x 100'	4 mesh 23 Ga
1/4" x 1/4"	23 Ga	40" x 100'	4 mesh 23 Ga
1/4" x 1/4"	23 Ga	48" x 100'	4 mesh 23 Ga
1/2" x 1/2"	19 Ga	24" x 100'	2 mesh 19 Ga
1/2" x 1/2"	19 Ga	36" x 100'	2 mesh 19 Ga
1/2" x 1/2"	19 Ga	48" x 100'	2 mesh 19 Ga
1/2" x 1/2"	16 Ga	24" x 100'	2 mesh 16 Ga
1/2" x 1/2"	16 Ga	36" x 100'	2 mesh 16 Ga
1/2" x 1/2"	16 Ga	48" x 100'	2 mesh 16 Ga

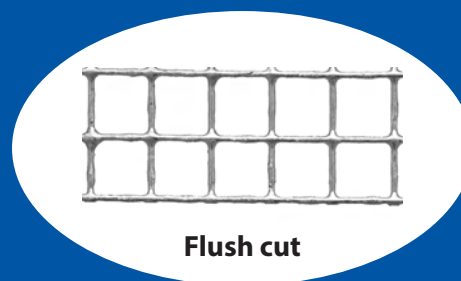
Our galvanized before welded (GBW) offers protection against the elements at an economical cost.

### Standard specifications for GBW

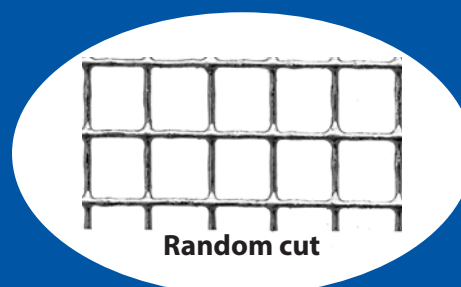
CTC Distance	Wire Size	Roll Width
2" x 2"	14 Ga	60" x 48"
2" x 2"	16 Ga	60" x 48"
1" x 1"	14 Ga	60" x 48"
1" x 1"	16 Ga	60" x 48"
3/4" x 3/4"	16 Ga	60" x 48"
3/4" x 3/4"	18 Ga	60" x 48"
1/2" x 1/2"	16 Ga	60" x 48"
1/2" x 1/2"	18 Ga	60" x 48"
1/2" x 1"	16 Ga	60" x 48"
1" x 2"	16 Ga	60" x 48"
2" x 4"	16 Ga	60" x 48"



D-NET rolls



Flush cut



Random cut

## Options

### Surface treatment

For better corrosion resistance on stainless steel welded mesh it is recommended to passivate the mesh.

Passivation (pickling) - dull surface

Electropolishing - shiny surface

### Leveling and straightening

Welded mesh can have internal tensions and a slight waviness due to the introduction of high heat during welding or galvanizing.

We have post welding processes to straighten and reduce these distortions.

### Fabrication

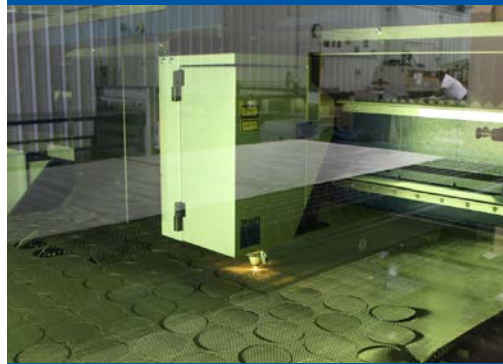
You do not have the ability or would you prefer to purchase fabricated mesh parts?

No problem, we would love to fabricate them for you.

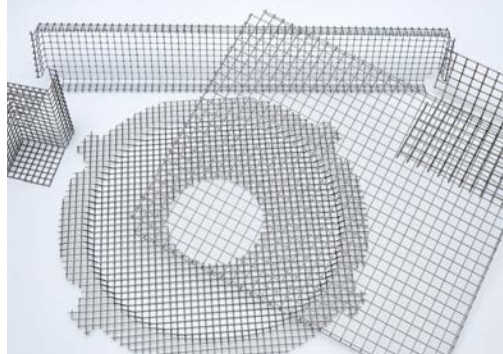
- Cut pieces.
- Laser cut parts.
- Deep drawn and folded parts.
- Welding and assembly (resistance welding, WIG/TIG welding)

### Custom frames

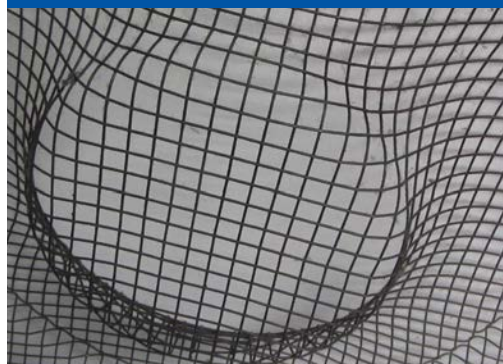
We custom design frames for welded mesh. This allows for easy installation and handling.



Cutting pieces



Laser cut pieces



Deep drawn and folded parts



Welding and assembly









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**DORSTENER WIRE TECH**

