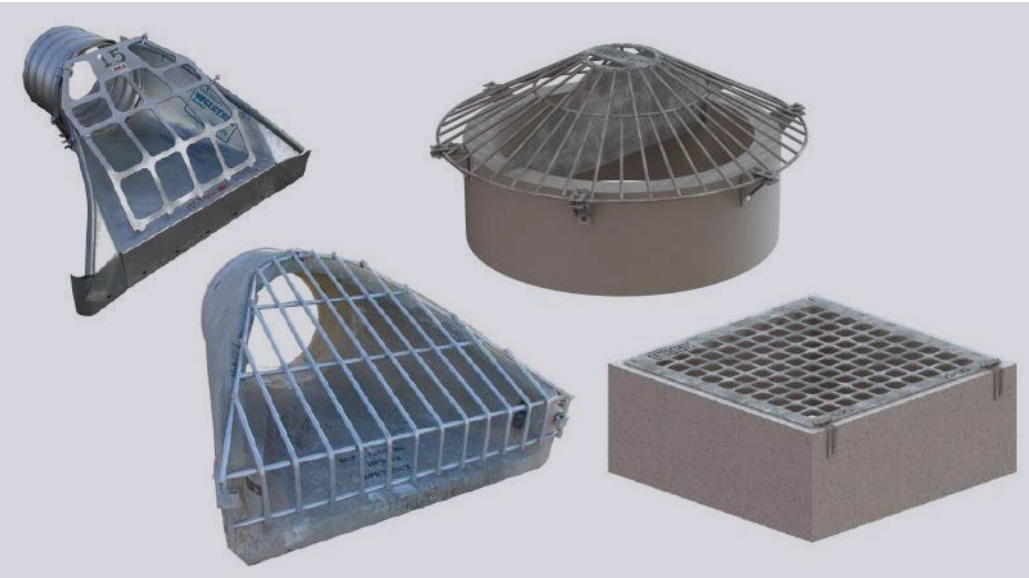




Concrete Accessories

Pipe, Precast and Prestressed
Concrete Applications



Quality and value for
your precast needs

- Grates and Guards
- Lifting Devices
- Pipe Ties/Tie Rods
- Reinforcement Products



Ask about our
Made in the USA
capabilities.

www.afinitas.com

LIFTING**8**

Made in USA — Lifting Devices	9
Lift Cables	9
Lift Plates	10
Lift Hole Supports	10
Lift Bars	11

REINFORCEMENT**14****Rebar Mats**

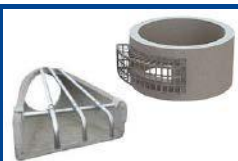
Cover Mats	15
Base Mats	21
Intake Cover Mats	25
Curb Inlet Mats	26
Misc. Mats & Accessories	26

Wire Cone Cages

Eccentric Wire Cone Cages	27
Concentric Wire Cone Cages	29
Flared End — Round	31
Flared End Elliptical, Arch, Span	33

Shear Steel Stirrup Mats

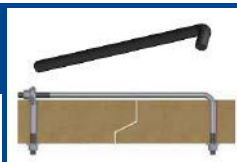
Box Mats	34
Round Mats	34

GRATES**36**

Bell End Grates	37
Outlet Screens	37
Barrel Pipe Grates	38
Flared End Vehicle Safety Grates	39
Safety Grates	40
Safety Grate Mounting Options	42
Cone Grates	43
Manhole Pond Skimmer Grates	47
Manhole Grates	49
Top Grates — Box	51
Box Inlet Pond Skimmer Grates	51
Beaver Buster Grates	52
Box Inlet Grates	53
Rodent Shields	59
Retaining Rods	59
Welded Drain Cage	59

GUARDS**60**

CMP Steel Pipe & Plate Style Trash Guards	61
Bullnose Trash Guards	62
Plate Style Trash Guards	63
Round Pipe Trash Guards — Standard Rod Style	64
Round Pipe Trash Guards — Heavy Rod Style	65
Span/Arch Aprons Trash Guards	66
Elliptical Trash Guards	67
Illinois Trash Guards	68
Del DOT Trash Guards	69
Del DOT Outlet Screen	69

PIPE TIES/TIE RODS**70**

Double Eye Pipe Ties — Iowa	71
Single Eye Pipe Ties — Minnesota	72
Washington County Pipe Ties	73
Polk County Pipe Ties	73
Hide-Away Tie Rods	74
Wisconsin Pipe Ties	75
Heavy Duty Couplers	76
Extra Strong Tie Rods	77
Connecting Pins — Median Barrier	78
Anchor Pins	79

MISCELLANEOUS**80**

Wing Wall Hardware	81
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We are constantly updating our Made in the USA offerings — visit www.afinitas.com for the most up-to-date product offerings.

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Afinitas is a global, comprehensive and customer-oriented equipment, automation, forming and accessories platform for precast concrete and infrastructural products.

Equipment & Automation | Forming Systems | Concrete Accessories | Service
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Scan to contact
our team

About Afinitas

Afinitas is the world's leading provider of equipment, automation, forming systems and accessories used in pipe and precast concrete product manufacturing.

We offer everything you need to optimize your production — from the world's leading machinery, to high-quality wetcast forming systems for infrastructural, transportation and utility needs to a wide range of concrete accessories for spacing, lifting, fixation, reinforcement and more.

Headquartered in St. Louis, MO, we have nearly 500 team members worldwide, with sales and service facilities in the USA, Denmark, Germany, Italy, UK, and India. Our team of experts understands your needs and provides unmatched service and support. We offer trusted products, many made in the USA, and we are continually developing new products and technologies to help you win more business.



A Portfolio Built on Trusted Brands

1949

Founding of **Hawkeye**
in Mediapolis, IA
Steel Spacers

- Industry's first weldless Box-Lok Spacer
- The only brand to offer "tangle-free" packaging
- Spacer handling cart — a brand exclusive

2008

Merger of **Hawkeye** and Danish
equipment manufacturer
Pedershaab.

2016

BW Forsyth Partners,
a **Barry-Wehmiller** company,
acquires **HawkeyePedershaab.**

Service, Selection, Solutions

Afinitas is known for its top-quality pipe and precast concrete accessory products and unmatched service. When you team up with Afinitas you get product, sourcing, manufacturing and service specialists who know accessories and know how they are used. Look to Afinitas for assistance with your next project, we specialize in:

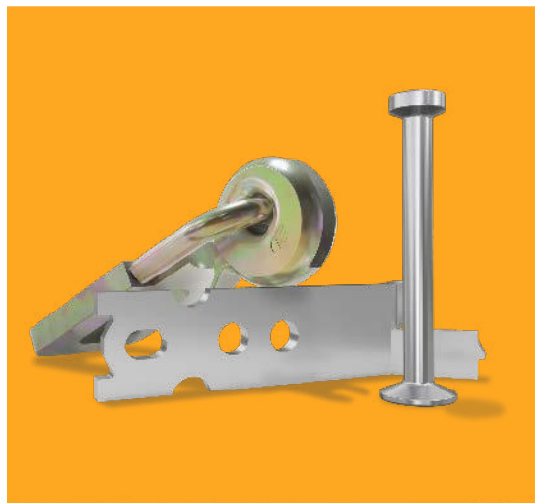
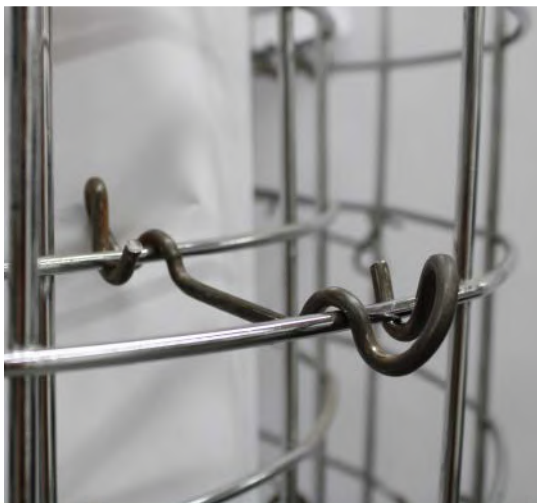
Cable Racks and Arms
Chamfer
EMS Markers
Fixation
Grates and Guards
Lifting Devices

Made in USA Accessories
Magnets
Manhole Ladders
Median Barrier Pins
Pipe Ties-Tie Rods
Rebar Mats

Recess Formers & Locators
Spacers
Stirrup Mats
Utility Vault & Box Hardware
Wire Cone Cages



MADE IN USA



2018

Afinitas formed to serve as parent company. Adds **Spillman** and **CAM Products**.

Spillman
Columbus, OH
Plastic Spacers

CAM Products
Ludington, MI
Steel Spacers and Stirrup Mats

2021

Afinitas Acquires Amifast
Liberty Hill, TX
Lifting Anchors and Fixation Inserts
• Global Sourcing Expertise

Afinitas Acquires Caswick Ltd.
Doncaster, UK
Manhole Steps
• Injection molding and manufacturing

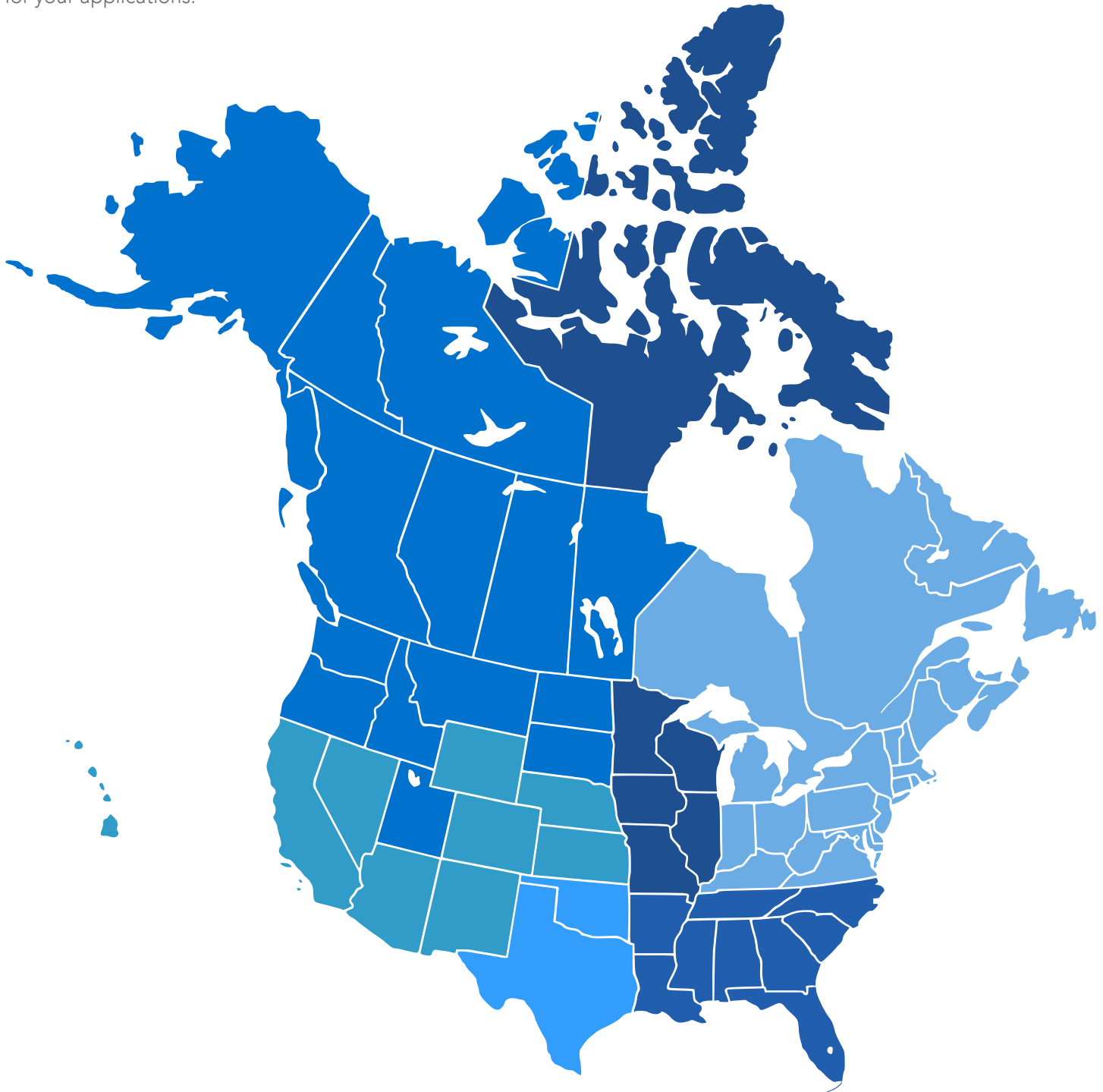
2022

Afinitas Acquires Haala Industries
Sleepy Eye, MN
Rebar Mats, Flared End and Cone Cages, Grates and Guards, and Lifting Devices
• Made in USA: US manufactured products fabricated with US-made steel



Contact Your Local Sales Representative

Our team is ready to assist with your questions and can help you find the right products for your applications.



Northwest Region

Call +1 801-698-8933

Upper Midwest Region

Call +1 319-750-5587

Northeast Region

Call +1 319-334-8877

Southwest Region

Call +1 319-750-1110

Oklahoma/Texas

Call +1 512-778-6577

Southeast Region

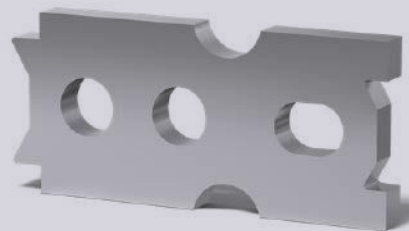
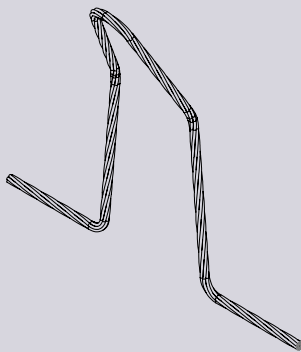
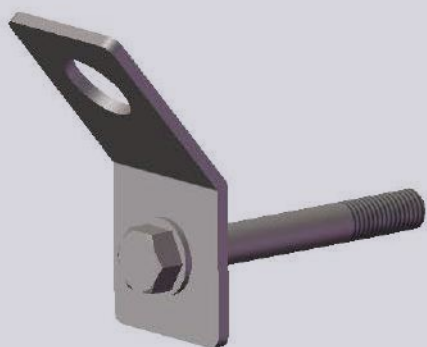
Call +1 904-576-9186

LIFTING



Lifting device products are instrumental for safe and efficient handling of precast concrete elements throughout the manufacturing process, regardless of wetcast or drycast methods.

If you don't see the product you need, we can likely custom-make it. Just provide your design and we'll manufacture to your specifications using domestic materials.



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

See our entire offering of lifting accessories.



Made in USA Lifting Devices

When it comes to precast concrete lifting devices, quality and reliability are non-negotiable. Our lifting solutions, proudly manufactured in Sleepy Eye, MN, stand apart for their superior craftsmanship, rigorous safety standards, and long-lasting performance. Designed with precision and built to withstand the toughest conditions, these devices embody the innovation and excellence associated with American manufacturing. Choosing locally made products not only supports domestic industry but also ensures faster lead times, exceptional customer support, and compliance with stringent US regulations.

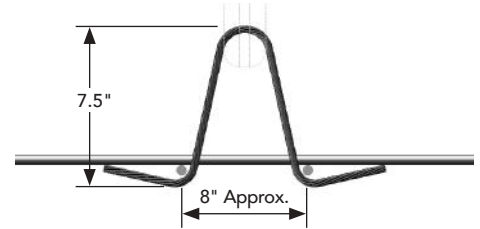
We can manufacture US steel flat iron lifting devices to meet Made in the USA requirements at our factory in Sleepy Eye, MN. Call us at 507-794-5821 for a quote today!



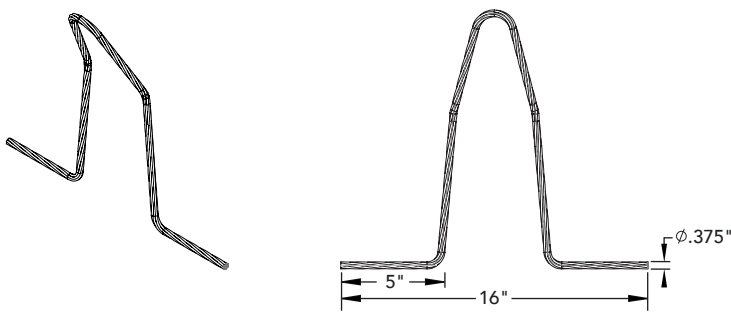
Lift Cables

- 3/8" EHS Galvanized
- 3/8" 1 x 7 Extra High Strength A475 Galvanized.
- Certified to have minimum break strength of 15,400 lbs. Mill Certs included.
- To maintain 4:1 safety factor DO NOT LIFT OVER 3,850 lbs. per cable.
- Safe working load is based on 4:1 safety factor on the minimum breaking strength of steel.
- Factors to consider are depth of anchor, placement under rebar mats, concrete compressive strength and adequate curing.

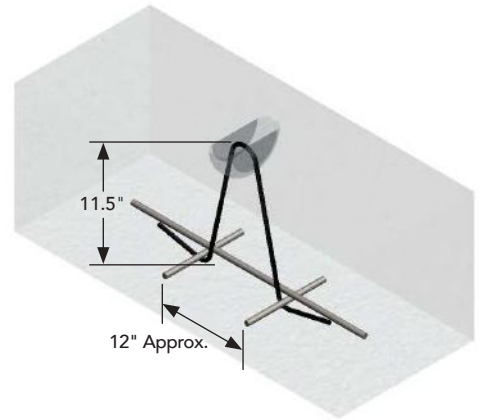
Part Number	Description	Qty / Box	Weight (lbs)
3825	3/8" x 25" V EHS Cable - Galvanized	2,000	1,180
3836	3/8" x 36" V EHS Cable - Galvanized	2,000	1,740
3838	3/8" x 38" V EHS Cable (STP CB Lifter) - Galvanized	2,000	1,760



3/8" x 25" Lift Cable — Part #3825
Place cable under wire mats or rebar.



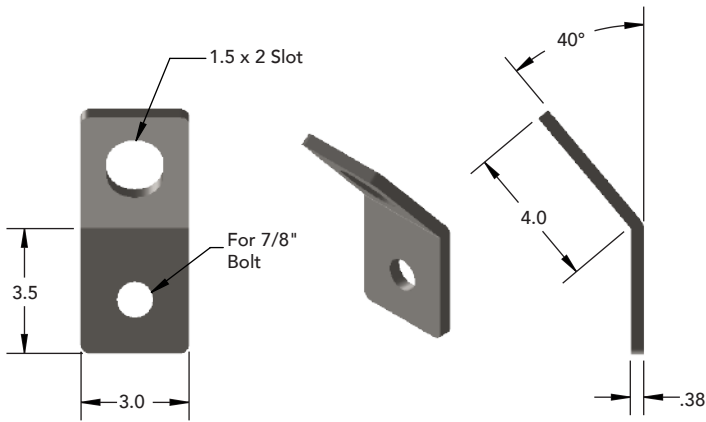
3/8" x 38" Lift Cable — Part #3838



3/8" x 36" Lift Cable — Part #3836
Place cable under wire mats or rebar.

Lift Plates

Note: Please consider the breaking strength of the bolt and concrete when using this plate. During testing the bolt broke before the plate. Lift Plates can be made to your specifications.



Part Number	Size	SWL (lbs)	Qty.
3803	3/8" x 7 1/2"	5,000	100+

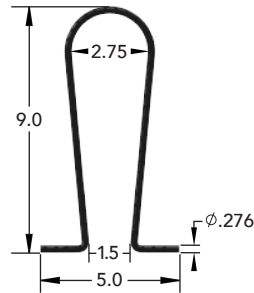
10% charge for less than qty. listed.

Lift Hole Supports

Wire is .276" negative deformed wire. Lift hole support bar to be used with 1.25" lift pockets.

Part Number	Size	Qty.
LHSD6915	D6 x 9" x 1.5"	3,000+

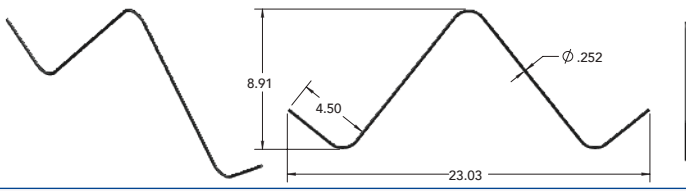
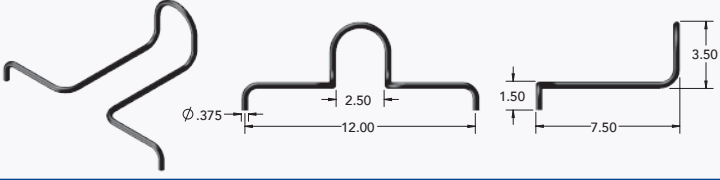
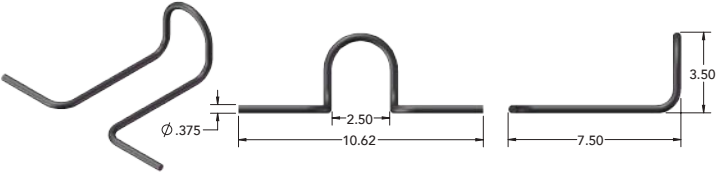
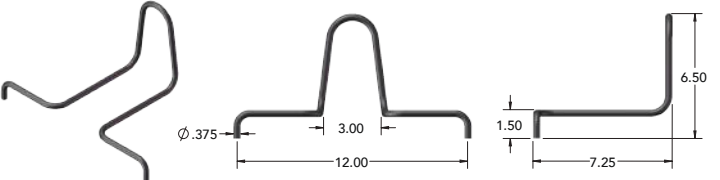
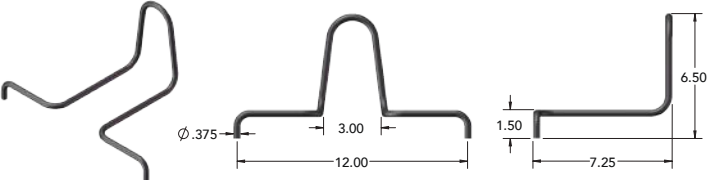
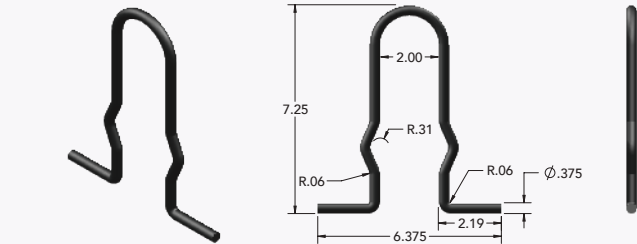
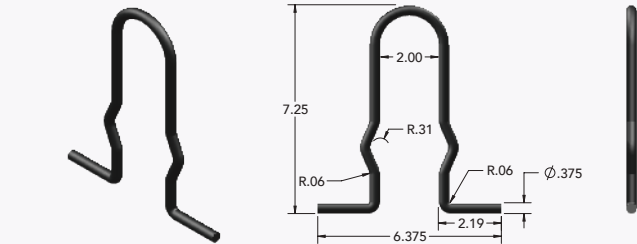
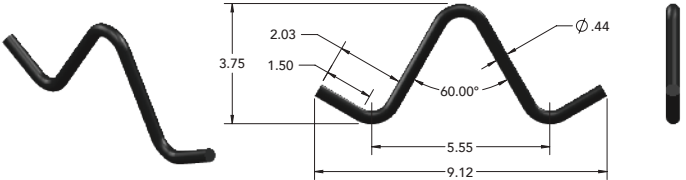
10% charge for less than qty. listed.



Lift Bars

Safe working load is based on 4:1 safety factor on the minimum breaking strength of steel. Factors to consider are depth of anchor, placement under rebar mats, concrete compressive strength and adequate curing.

Custom Lift Bars Available — Please Send Requirements.

	Part Number	Finish	Size (in)	SWL (lbs)	Qty.
	LB2536P	Plain	.252 x 36	2,800	500+
	LB3835P	Plain	3/8 x 3 1/2	2,800	1,500+
	LB3835NLG	Galvanized	3/8 x 3 1/2	2,800	2,000+
	LB3855G	Galvanized	3/8 x 5 1/2	2,800	1,500+
	LB3865P	Plain	3/8 x 6 1/2	2,800	1,500+
	LB3865G	Galvanized	3/8 x 6 1/2	2,800	1,500+
	LB3819P	Plain	3/8 x 7 1/4	3,000	2,000+
	LB3819G	Galvanized	3/8 x 7 1/4	3,000	2,000+
	LB7163.75G	Galvanized	7/16 x 3 3/4	Contact us	500+

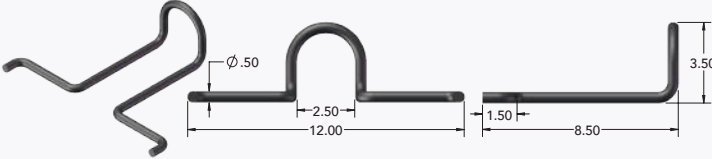
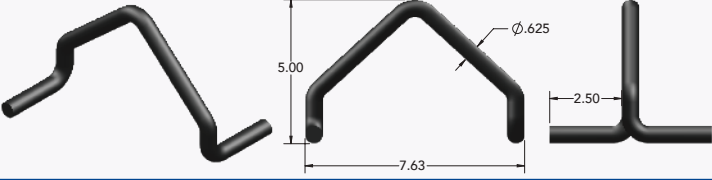
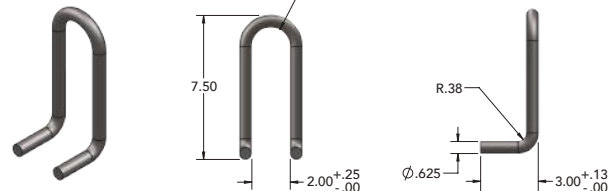
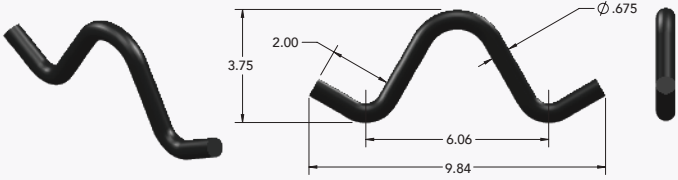
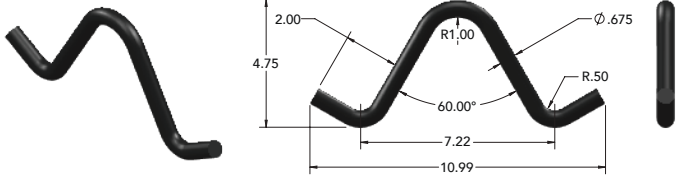
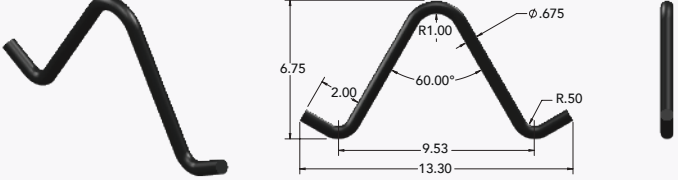
SWL - Safe Working Load

10% charge for less than qty. listed.

Lift Bars (continued)

Safe working load is based on 4:1 safety factor on the minimum breaking strength of steel. Factors to consider are depth of anchor, placement under rebar mats, concrete compressive strength and adequate curing.

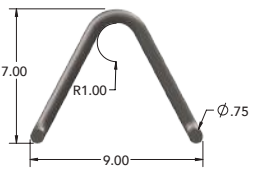
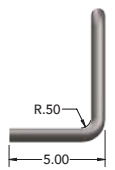
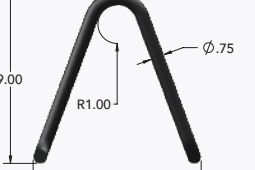
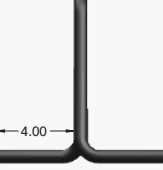
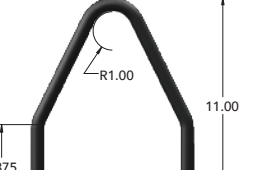
Custom Lift Bars Available — Please Send Requirements.

	Part Number	Finish	Size (in)	SWL (lbs)	Qty.
	LB1235P	Plain	1/2 x 3 1/2	5,000	1,500+
	LB125P	Plain	1/2 x 5 1/2	5,000	2,000+
	LB585P	Plain	5/8 x 5	8,500	2,000+
	LB587P	Plain	5/8 x 7 1/2	8,500	2,000+
	LB6753.75G	Galvanized	.675 x 3 3/4	Contact us	500+
	LB6754.75G	Galvanized	.675 x 4 3/4	Contact us	500+
	LB6756.75G	Galvanized	.675 x 6 3/4	Contact us	500+

Lift Bars (continued)

Safe working load is based on 4:1 safety factor on the minimum breaking strength of steel. Factors to consider are depth of anchor, placement under rebar mats, concrete compressive strength and adequate curing.

Custom Lift Bars Available — Please Send Requirements.

		Part Number	Finish	Size (in)	SWL (lbs)	Qty.
  		LB3470P	Plain	3/4 x 7	12,000	500+
  		CP118P	Plain	3/4 x 9	12,000	500+
  		LB3411P	Plain	3/4 x 11	12,000	500+
  		LB3412P	Plain	3/4 x 12	12,000	500+

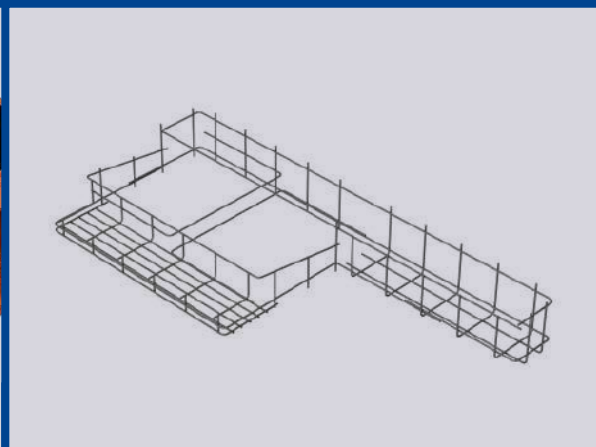
SWL - Safe Working Load

10% charge for less than qty. listed.

REINFORCEMENT



Engineered to enhance the strength and durability of your precast concrete projects, our reinforcement products are proudly made in the USA to meet the highest quality standards. From precision-crafted rebar mats and stirrup mats to wire cone cages, our offerings provide reliable support for a wide range of applications. Designed for efficiency and ease of installation, these reinforcement solutions deliver superior performance, ensuring long-lasting results for every project. Whether you're building infrastructure, commercial developments, or residential structures, our products are built to exceed expectations and stand the test of time.



See our entire offering of reinforcement products.



Cover Mats

Cover Mats are a complete line of rebar and deformed bar reinforcement mats. Cover mats can be made for round or square applications and are available with eccentric or centered manhole openings. We have the capability to custom design and manufacture rebar reinforcement products to meet your specific requirements.

- Can be custom-made
- Typical material is A706 grade 60 rebar



Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
M36X2X2CIL	36" x 2' x 2' C Mat (IL)	42	44	4	6	25
M36X24EILR	36" x 24" E Mat (IL)	41	44	4	6	100
M36X26EIL46	36" x 26" E (IL DOT)	46	48	4	6	100
M36X24C	36" x 24" C	37	39	4	6	50
M42X2X3CIL	42" x 2' x 3' C (IL) Mat	49	51	4	6	40
M42X26C	42" x 26" C (HS-20)	47	51	4	6	30
M42X26E	42" x 26" E (HS-20)	47	51	4	5	30
M42482412	42" x 48" x 24" x 12"	37 x 43	42 x 48	4	21	100
10005	44" x 27" C Mat	42	44	5	N/A	30
M48-1	RDSA Mat	42	45	5	40.13	100
M4824EPC	48" Flat Slab - 24" Access	55	58	4	10	100
M48X21X21GDOT	48" x 21" x 21" G DOT	54	58	5	5	50
M48X21X21C	48" x 21" x 21" C	55	58	4	12	100
M48SQ2626HV	48" Sq. x 26" x 26" Mat	55	58	4	4	20
M48X2X3CIL	48" x 2' x 3' C IL Mat	56	58	4	6	100
10012	48" x 2' x 3' C Mat	55	58	5	6	30
10013	48" x 2' x 3' E Mat	55	58	5	6	30
M48X2X3CND	48" x 2' x 3' C	55	58	4	6	100
M48X2X3END	48" x 2' x 3' E	55	58	4	6	100
M48X24ERIW	48" x 24" E	55	58	3	9	100
AM4824	48" x 24" E Americast	54	58	4	5	50
M48X24EILR61	48" x 24" E (IL) Ext.	61	63	5	6	50
M48X24ELP	48" x 24" E (LINPRE)	54	58	4	8	50
AM4824CI	48" x 24" E Mat (CI)	54	58	4	5	50
M48X24CMI	48" x 24" C (MI) Mat	55	58	4	12	50
M4824HAL	48" x 24" C Mat (HAL)	46	49	4	4	50
1322330	48" x 24" C Mat (Topeka)	54	58	6	4	20
AM4824CW	48" x 24" E Mat (CW)	54	58	4	5	50
1322310	48" x 24" E Mat (Topeka)	54	58	5	6	25
M48X24C	48" x 24" C	55	58	4	6	100
M48X24EAP	48" x 24" E	55	58	4	12	100
M48X24EUPDOT	48" x 24" E (UP-DOT)	54	58	5	6	30
M48X24EAC	48" x 24" E Aircraft Mat	52	58	6	3	25
M48X24E	48" x 24" E Mat	54	58	4 & 5	3	50
10017-24	48" x 24" E Mat	55	58	5	6	30
M4824HV	48" x 24" E Mat	54	58	4	8	50
M48X24CPP	48" x 24" E Mat (CP&P)	54	58	5	6	50
M4824HM	48" x 24" E Mat (HM)	54	58	4	6	30
M48X24EILR	48" x 24" E Mat (IL)	55	58	5	3	50
M48X24EMI	48" x 24" EMI Mat	50	54	4	11	50
M48X24EPT	48" x 24" E Mat (PT)	54	58	5	6	50



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Cover Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
M48X24X24C	48" x 24" x 24" C Mat	54	58	5	5	50
M48X24X24ERIW	48" x 24" x 24" E	55	58	3	9	100
M48X24X24	48" x 24" x 24" E IA Mat	55	58	5	6	30
M48X24X24CMM	48" x 24" x 24" E (CM)	55	58	4	10	50
M48X24X24HAL	48" x 24" x 24" C Mat (HAL)	55	58	4 & 5	6	50
M48X2X3HAL	48" x 24" x 36" C Mat	55	58	4 & 5	6	50
M48X24X36E	48" x 24" x 36" E Mat	54	58	5	4	50
M48X26EIL	48" x 26" E IL Mat	56	58	4	6	100
M48X26	48" x 26" E Mat	55	58	5	8	50
M482626HV	48" x 26" x 26" Mat	55	58	4	10	50
10010	48" x 27" C Mat	55	58	5	6	30
M48X27C	48" x 27" C Mat	54	58	4	6	40
M4827HAL	48" x 27" C Mat (HAL)	46	49	4	4	50
M48X27EUPDOT	48" x 27" E (UP-DOT)	54	58	5	6	30
10017	48" x 27" E Mat	55	58	5	6	30
M48X27E2A	48" x 27" E Mat (HS-20)	50	53	4	6	30
M48X27EMP	48" x 27" E Mat (MP)	55	58	4	6	50
M48X27EUP	48" x 27" E Mat UP	54	58	4	5	50
M48X27EMI	48" x 27" EMI Mat	54	58	4	11	50
M48X27END	48" x 27" E	55	58	4	6	40
RM48X28ENE	48" x 28" E Mat	54	58	4	6	40
M4828HMS	48" x 28" E HMS Mat	55	58	4 & 5	5	50
M48X28X34CTNDOT	48" x 28" x 34" C (TN) DOT	54	58	5	4.5	30
M482828	48" x 28" x 28" C Mat	55	58	5	10	50
M482834	48" x 28" x 34" C Mat	55	58	5	3	50
M48X30C	48" x 30" C	55	58	4	6	50
1001-30	48" x 30" C Mat	55	58	5	6	30
AM4830	48" x 30" E Americast	54	58	4	5	50
M48X30EAC	48" x 30" E AC Mat	54	58	6	3	25
M4830HV	48" x 30" E Mat	54	58	4	5	50
10014-R	48" x 30" E Mat	55	58	5	5	30
M4830HM	48" x 30" E Mat (HM)	54	58	4	6	25
M48X30NP	48" x 30" E Mat (Nance)	54	58	4	7	50
M48X30X30HAL	48" x 30" x 30" C Mat	55	58	4 & 5	6	50
M48X30X30CMM	48" x 30" x 30" E (CM)	55	58	4	10	50
M48X30CSC	48" x 30" C (SC)	55	58	4 & 5	6	50
M48X30ESC	48" x 30" E (SC)	55	58	4	8.25	50
M48X36X24	48" x 36" x 24" E	55	58	4	8	50
M483630C	48" x 36" x 30"	55	58	4 & 5	6	50
M483636CTN	48" x 36" x 36" C (TN)	55	58	5	8	50
10014-R-36NC	48" x 36" E	55	58	5	3	30
M48X36ECL	48" x 36" E	58	61	4	10	50
M483630HAL	48" x 36" x 30" (HAL)	55	58	4 & 5	6	50
M484827	4.8' x 4.8' x 27" C Mat	55	58	6	5.5	15
M484830	4.8' x 4.8' x 30" Mat	55	58	5 & 6	4.75	15
10190	5.3' x 5.3' C Mat	61	64	6	6	20
M54X27C	54" x 27" C Mat	50	54	4 & 5	12	50



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Cover Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
10020	54" x 27" C Mat	62	65	5	8	30
10021	54" x 27" E Mat	62	65	5	8	30
10022	54" x 2' x 3' C Mat	62	65	5	8	30
10023	54" x 2' x 3' E Mat	62	65	5	8	30
RM54X28ENE	54" x 28" ENE Mat	62	65	4 & 5	6	40
10021-30	54" x 30" E Mat	62	65	5	8	30
40400	56" x 26.5"	53	56	6	2	20
40450	56" x 56" x 26" x 14"	57	60	5	5	50
40410	56" x 56" x 26.5"	53	56	6	2	20
M56X56X27C	56" x 56" x 27" C	56 x 56	60 x 60	4	10.4	100
M57XPOCL	56" x 64"	56 x 64	59 x 67	4	Varies	50
ACP23048	59" x 25" E Mat	56	59	4 & 5	12	60
M6024EPC	60" Flat Slab - 24" Access	69	72	4	10	100
M60X24CMM	60" x 24" E (COUMA x)	68	72	4	11	50
M60X24ELP	60" x 24" E (Lindsay Precast)	68	72	4	9	50
M60X24X24CMM	60" x 24" x 24" E (CM)	69	72	4	10	50
10032	60" x 2' x 3' C Mat	69	72	4 & 5	T-10/B-7	15
10033	60" x 2' x 3' E Mat	69	72	4 & 5	T-10/B-7	15
10033TOP	60" x 2' x 3' E Top Mat	69	72	4	10	15
10348	60" x 2' x 3' E Mat Rotated	69	72	4 & 5	T-10/B-9.38	15
M60X2X3CIL	60" x 2' x 3' C Mat (IL)	68	72	4	6	50
10348BOT	60" x 2' x 3' C Bottom	69	72	5	10	15
10348TOP	60" x 2' x 3' C Top	69	72	4	10	15
10033TOP-5	60" x 2' x 3' E Top Mat	69	72	5	10	15
M60X24CPP	60" x 24" E Mat (CP&P)	68	72	5	6	30
M6024HM	60" x 24" E Mat (HM)	68	72	4	6	30
M6024HV	60" x 24" E Mat (HV)	68	72	4	6	20
M60X24EAP	60" x 24" E	69	72	4	6	100
M60X24EILRBOT	60" x 24" E Mat (IL) Bottom	69	72	5	6	50
M60X24EILRTOP	60" x 24" E Mat (IL) Top	69	72	5	18	50
M60X24EMIDOT	60" x 24" EMI Mat	69	72	4 & 5	T10/B-6	15
M60X24ETNDOT	60" x 24" E (TN) DOT	68	72	5	Varies	25
M60X26EIL	60" x 26" E IL Mat	70	72	4	6	100
M6026ETN	60" x 26" E Mat (TN)	68	72	5	8	30
M602626HV	60" x 26" x 26" Mat	69	72	4	8	20
10030	60" x 27" C Mat	69	72	4 & 5	B-7/T-10	15
10030CW	60" x 27" C Mat	68	71	4	12	20
10030CWBOT	60" x 27" C	68	71	4	6	20
10031	60" x 27" E Mat	69	72	4 & 5	6	15
10030IA	60" x 27" C (IA)	68	72	5	6	20
10031CW	60" x 27" E Mat	69	72	4	T-12/B-6	20
10031IA	60" x 27" E (IA)	68	72	5	6	20
10040	66" x 27" C Mat	76	79	4 & 5	T-10/B-7	15
10041	66" x 27" E Mat	76	79	4 & 5	T-10/B-7	15
10033BOT	60" x 2' x 3' E	69	72	5	7	15
10042	66" x 2' x 3' C Mat	76	79	4 & 5	T-10/B-7	15
10043	66" x 2' x 3' E Mat	76	79	4 & 5	T-10/B-6	15



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Cover Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
RM60X28ENE	60" x 28" ENE Mat	69	72	4 & 5	6	30
M602828CTN	60" x 28" x 28" C Mat (TN)	68	72	5	8	30
M602828-2TN	60" x 28" x 28" – 2" Mat (TN)	68	72	5	8	30
M60X28X34CTNDOT	60" x 28" x 34" C (TN) DOT	68	72	5	4.5	30
M602834CTN	60" x 28" x 34" C Mat (TN)	68	72	5	8	30
M60X30EAC	60" x 30" E Aircraft Rated	66	72	6	3	25
100311A-30	60" x 30" E Mat	69	72	5	6	50
M60X30NP	60" x 30" E (Nance)	69	72	4	12	50
10030-30	60" x 30" C	69	72	4 & 5	T-10/B-7	15
10031-30	60" x 30" E Mat	69	72	5	6	15
M6030HV	60" x 30" E Mat (HV)	68	72	4	6	20
M6030HM	60" x 30" Mat (HM)	68	72	4	6	20
M603232CTN	60" x 32" x 32" C (TN)	68	72	5	9	30
M60X32X32CTNDOT	60" x 32" x 32" C (TN) DOT	68	72	5	4.25	30
M603630C	60" x 36" x 30" C	69	72	5	10	15
M603636CTN	60" x 36" x 36" C Mat (TN)	68	72	5	10	30
M65X36C	65" x 36" C	62	65	4	6	50
M60BHS-40	60" x 40" C (HS)	68	72	4	8	50
M60X48EMIBOT	60" x 48" E (MI) Bottom	68	72	4 & 6	12	25
M60X48EMITOP	60" x 48" E (MI) Top	68	72	4	12	25
10034	60" x 48" E Mat	69	72	4	T-10/B-7	15
M6048HV	60" x 48" Mat (HV)	68	72	4	6	30
M6048FW	60" x 48" E	70	74	5	6	50
M7224EPC	72" Flat Slab - 24" Access	83	86	4	10	100
M72X24CAC	72" x 24" C AC	83	86	7 & 8	4	10
M72X24EMI	72" x 24" EMI Mat	82	86	5	8	20
M7224CMM	72" x 24" E (COUMA x)	83	86	4	10	100
M72X24X24OCL	72" x 24" x 24" E (OC)	81.75	84.75	4	10	50
M72X24X24CMM	72" x 24" x 24" E (CM)	83	86	4	10	50
M72X24ELP	72" x 24" E (LINPRE)	82	86	5	6	20
M72X24EAC	72" x 24" E Aircraft Rated	80	86	6	3	15
M72X24CPP	72" x 24" E Mat (CP&P)	82	86	5	6	20
M7224HM	72" x 24" E Mat (HM)	82	86	4	8	20
M7224HV	72" x 24" E Mat (HV)	82	86	4	8	20
M72X24EBO	72" x 24" E	82	86	4	6	50
M7224EPC-5	72" x 24" E Mat	83	86	5	10	50
M72X26EIL	72" x 26" E IL Mat	82	86	4 & 6	5	20
10050	72" x 27" C Mat	83	86	4 & 5	T-10/B-6	15
10050IA2A	72" x 27" C Mat Type 2A	83	86	4	6	20
10051	72" x 27" E Mat	83	86	4 & 5	T-10/B-6	15
10051IA2A	72" x 27" E Mat Type 2A	83	86	4	6	20
M7227ETN	72" x 27" E (TN)	82	86	5	5.5	30
10051TOP	72" x 27" E Top	83	86	4	10	25
10050IATOP-5	72" x 27" C Top	83	86	5	12	20
10051IATOP-5	72" x 27" E Top	83	86	5	12	20
RM72X28ENE	72" x 28" ENE Mat	83	86	5	7.5	20
10050-30	72" x 30" C Mat	83	86	4 & 5	T-10/B-6	15



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Cover Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
M72X30EAC	72" x 30" E Aircraft Rated	80	86	6	3	15
M7230CNJ	72" x 30" C Mat (NJ)	82	86	5	6	20
M7230HV	72" x 30" E Mat (HV)	82	86	4	8	20
M7230NJ	72" x 30" E Mat (NJ)	82	86	5	6	20
M72X30NP	72" x 30" E (NP)	83	86	4	12	50
M723630C	72" x 36" x 30" C	83	86	5	12	20
M723636CTN	72" x 36" x 36" C (TN)	82	86	5	8	30
M72X36ELP	72" x 36" E (LP)	82	86	5	6	20
M72X385ELP	72" x 38.5" E (LP)	82	86	5	6	6
10052	72" x 2' x 3' C Mat	83	86	4 & 5	T-10/B-6	15
10052IATOP-5	72" x 2' x 3' C (Type 2A)	83	86	5	12	20
10052IA2A	72" x 2' x 3' C Mat Type 2A	83	86	4	6	20
10053BOT	72" x 2' x 3' E	83	86	5	6	15
10053	72" x 2' x 3' E Mat	83	86	4 & 5	T-10/B-6	15
10053TOP-5	72" x 2' x 3' E Top	83	86	5	10	20
M72X2X3C	72" x 2' x 3' C Mat	77 x 77	80 x 80	6	6	20
10052TOP	72" x 2' x 3' C Top	86	86	4	10	15
10050-30BOT	72" x 30" C	83	86	5	3	15
M72X30C	72" x 30" C	83	86	4	12	25
M72X48X27LID	72" x 48" x 27" Lid	68 x 44	72 x 48	4	6	50
10051-48	72" x 48" E Mat	83	86	4	T-10/B-6	15
M7248HM	72" x 48" E Mat (HM)	82	86	4	6	20
M7248HV	72" x 48" E Mat (HV)	82	86	4	8	20
M72X27C	72" x 72" x 27" C Mat	77	80	6	6	20
10060	78" x 27" C Mat	90	93	4 & 5	T-10/B-5	15
10061	78" x 27" E Mat	90	93	4 & 5	T-10/B-5	15
10062	78" x 2' x 3' C Mat	90	93	4 & 5	T-10/B-5	15
10063	78" x 2' x 3' E Mat	90	93	4 & 5	T-10/B-5	15
M78X68OCL	78" x 68" Mat	74 x 64	80 x 70	4	18	50
40420	82" x 82" x 30" Mat	79	82	6	Varies	20
10072	84" x 2' x 3' C Mat	97	100	4 & 5	T-10/B-5	15
10073	84" x 2' x 3' E Mat	97	100	4 & 5	T-10/B-5	15
10072IATOP-5	84" x 2' x 3' C Top	97	100	5	12	25
10073TOP-5	84" x 2' x 3' C Top	97	100	5	10	25
M84X24EMI	84" x 24" EMI Mat	97.5	101.5	4 & 5	6	15
M8424HV	84" x 24" E Mat	96	100	4	8	15
M8424CMM	84" x 24" E (CM)	97	100	4	10	25
M84X27EHEN	84" x 27" E (HEN)	80	84	5	12	50
10070CNJ	84" x 27" C (NJ) Mat	93	96	5	6	10
10070	84" x 27" C Mat	97	100	4 & 5	T-10/B-5	15
10070IA	84" x 27" C Mat Type 2A	97	100	4 & 5	T-8/B-6	10
10071	84" x 27" E Mat	97	100	4 & 5	T-10/B-5	15
10071IA	84" x 27" E Mat Type 2A	97	100	4 & 5	T-8/B-6	10
RM84X27ENE	84" x 27" ENE Mat	97	100	5	5	15
M8427CMM	84" x 27" E (CM)	97	100	4	10	100
10071IATOP	84" x 27" E Top	97	100	4	8	10
M8430HV	84" x 30" E Mat	96	100	4	8	15



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Cover Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
M84X30EAC	84" x 30" E Aircraft Rated	94	100	6	3	15
M84X36X36CAL	84" x 36" x 36" C (AL)	94	98	5	6 & 2	25
10071-48	84" x 48" E Mat	97	100	4	T-10/B-5	15
M8448HV	84" x 48" Mat	96	100	4	8	15
M8448FW	84" x 48" E	94	98	5	6	30
M84X60X27LID	84" x 60" x 27" Lid	80 x 56	84 x 60	4	6	50
M84X81ALID	84" x 81" Type A Lid	81 x 78	84 x 81	4	10	25
M84X81X36BLID	84" x 81" x 36" Type B Lid	81 x 78	84 x 81	4	T-12/B-12	25
M84X81X36BLIDBOT	84" x 81" x 36" Type B Lid Bottom	78 x 81	81 x 84	5 & 4	12	20
M84X81X36BLIDTOP	84" x 81" x 36" Type B Lid Top	78 x 81	81 x 84	4	12	20
M7X4C	7' x 4' C	80 x 44	84 x 48	3	Varies	50
M7X5MP	7' x 5' x 30" C Mat	57 x 81	60 x 84	5 & 6	6	20
M88X94	88" x 94" (USEMCO)	85 x 91	88 x 94	4	8	20
10080	90" x 27" C Mat	104	107	4 & 5	T-10/B-5	15
10081	90" x 27" E Mat	104	107	4 & 5	T-10/B-5	15
10082	90" x 2' x 3' C Mat	104	107	4 & 5	T-10/B-5	15
10083	90" x 2' x 3' E Mat	104	107	4 & 5	T-10/B-5	15
M9624HV	96" x 24" E Mat	110	114	4	8	10
M9624CMM	96" x 24" E (CM)	111	114	4	10	20
10090	96" x 27" C Mat	111	114	4 & 5	T-10/B-6	10
10090IA	96" x 27" C Mat Type 2A	111	114	4 & 5	T-8/B-6	10
10091	96" x 27" E Mat	111	114	4, 5, & 6	T-10/B-6	10
10091IA2A	96" x 27" E Mat Type 2A	111	114	4 & 5	6	10
RM96X27ENE	96" x 27" ENE Mat	111	114	5	6	10
10090IATOP	96" x 27" C Top	111	114	8	8	10
M9627CMM	96" x 27" E (CM)	111	114	4	8	25
10091IATOP	96" x 27" E Top	111	114	4	8	10
M9630HV	96" x 30" E Mat	110	114	4	8	10
M9648HV	96" x 48" Mat	110	114	4	8	10
10092	96" x 2' x 3' C Mat	111	114	4 & 6	T-10/B-6	10
10093	96" x 2' x 3' E Mat	111	114	4 & 6	T-10/B-6	10
10092TOP-5	96" x 2' x 3' C Mat Top	111	114	5	10	10
10093TOP-5	96" x 2' x 3' E Mat Top	111	114	5	10	10
10095	96" x 48" E	111	114	4, 5 & 6	T-10/B-6	10
10231	108" x 27" E Mat	123	126	4 & 5	T-10/B-6	10
10232	108" x 2' x 3' C Mat	123	126	4, 5, & 6	T-10/B-6	10
10233	108" x 2' x 3' E Mat	123	126	4, 5, & 6	T-10/B-6	10
10241	120" x 27" E Mat	137	140	4 & 5	T-10/B-6	10
10243	120" x 2' x 3' E Mat	137	140	4 & 5	T-10/B-6	5
M132X53X28	132" x 24" x 28" C	132 x 53	136 x 57	5	6	20
40600	Cover Mat Switchgear Pad	93 x 81	96 x 84	5	Varies	20
40550	Cover Mat Three Phase Auto Transformer Pad	91	94	6	Varies	20
40500	Cover Mat Three Phase Transformer Pad	81	84	6	Varies	20
M5RDECK	5' Type R Deck	72 x 36	76 x 39.5	4 & 5	11	20
M10RDECK	10' Type R Deck	133 x 36	136 x 39.5	4 & 5	4	20
M15RDECK	15' Type R Deck	193 x 36	196 x 39.5	4 & 5	4	20

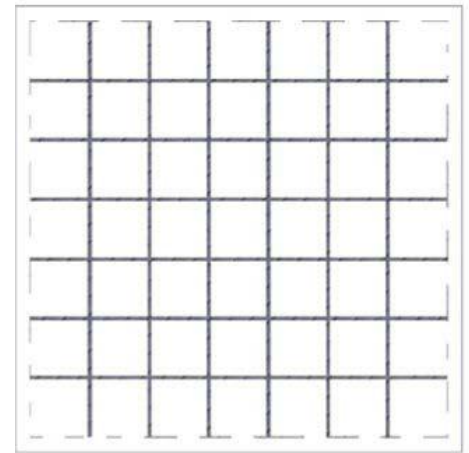


Base Mats

Base Mats are a complete line of rebar and deformed bar reinforcement mats. Base mats can be made for round or square applications and do not have a manhole opening. We have the capability to custom design and manufacture rebar reinforcement products to meet your specific requirements.

- Can be custom-made
- Typical material is A706 grade 60 rebar

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
M48-3	Base Mat 18" x 26"	40 x 47	N/A	4	Varies	100
13300L	Base Mat 2' x 3' w/Legs	33 x 43	36 x 46	4	10	100
M24B	Base Mat 24"	22	24	4	10	100
M24BOCK	Base Mat 24"	22	24	4	7.5	100
M48-2	Base Mat 26" x 26"	40 x 40	N/A	4	29.5	100
M30X52B	Base Mat 30" x 52"	30 x 52	36 x 58	4	11	100
M30X70B	Base Mat 30" x 70"	30 x 70	36 x 76	4	11	100
M30B	Base Mat 30"	27	30	4	10	100
M33X21B	Base Mat 33" x 21"	33 x 21	36 x 24	4	12	200
M36B	Base Mat 36"	34	36	4	10	100
M36X52B	Base Mat 36" x 52"	36 x 52	40 x 56	4	11	100
M24X80BIA	Base Mat 24" x 80" IA	32 x 88	36 x 92	4	12	100
10120L	Base Mat 3.5' x 4.5' w/legs	39 x 52	42 x 54	4	12	100
M3X2BIA	Base Mat 3' x 2' IA	44 x 32	4 x 3	4	12	100
M6555-4	Base Mat M29 Pad 44" x 46"	42 x 44	44 x 46	4	8	100
M3X4BIA	Base Mat 3' x 4' IA	42 x 54	46 x 58	4	12	100
M3X4BIAEXT	Base Mat 3' x 4' IA Ext.	64 x 52	68 x 56	4	10.4	100
M3X6BIA	Base Mat 3' x 6' IA	44 x 80	4 x 7	4	12	100
M3X8BIA	Base Mat 3' x 8' IA	44 x 106	48 x 110	4	12	100
M3X8BIAEXT	Base Mat 3' x 8' IA Ext.	53 x 112	56 x 115	4	12.5	100
13648	Base Mat 36" x 48"	36 x 48	4 x 3	4	12	100
M38X50BIA	Base Mat 38" x 50" IA	38 x 50	44 x 56	4	9.5	100
M39X51B	Base Mat 39" x 51"	39 x 51	42 x 54	4	12	100
M3X4RGBM	Base Mat 3' x 4' Rain Guard	30 x 47	46 x 51	4	6	100
M4X4BIA	Base Mat 4' x 4' IA	60 x 60	64 x 64	4	12	100
M4X5B	Base Mat 4' x 5'	45 x 57	48 x 60	4	8	100
M4X8BIA	Base Mat 4' x 8' IA	58 x 106	62 x 110	4	12	100
10100	Base Mat 40" x 5'	37	40	4	12	100
M44B	Base Mat 44" (IL)	42	44	4	11	100
M44X100BIA	Base Mat 44" x 100"	38 x 94	44 x 100	4	10	25
10150	Base Mat 44" x 5'	41	44	4	12	100
10150L	Base Mat 44" x 5' w/Legs	41	44	4	12	100
14660	Base Mat 46" x 6'	45	48	4	12	100
M46BCMM	Base Mat 46" (CM)	46	48	4	10	100
M48-4	Base Mat T26	46 x 47	N/A	4	30	100
M48B	Base Mat 48"	46	48	4	11	100
M48BHS	Base Mat 48" (HS)	56	58	4	8	100
M66NC	Base Mat 48" #6 x 60" OD	60	66	6	8.5	25
M48BILEXT	Base Mat 48" (IL) Ext.	61	63	4	10	100
M48BOCK	Base Mat 48"	45	48	4	10	100
M48BEXTTX	Base Mat 48" Ext. Texas	78	82	4	8	50

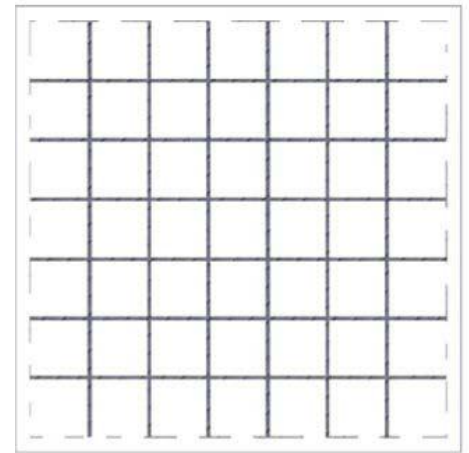




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Base Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
AM48EX	Base Mat 48" Extended	66	70	4	12	100
M70BPC	Base Mat 48" (GJ)	67	70	4	20	100
M48BLP	Base Mat 48" (LINPRE)	67	71	4	8	50
M48BEXT	Base Mat 48" Ext.	68	70	4	8	100
10180	Base Mat 48" PIB - 8 Rod	55	58	4	12	100
10185	Base Mat 48" PIB	55	58	5	12	90
M48BCS	Base Mat 48" PIB (CS)	53	57.5	4	10	100
M48BSHAK	Base Mat 48" PIB (Shak)	53	58	4	12	100
M48BWCP	Base Mat 48" WCP	54	58	4	10	100
M76BPC	Base Mat 48" (Denver)	73	76	4	20	150
M4X4BIAEXT	Base Mat 4' x 4' (IA) Ext.	64 x 64	68 x 68	4	11.6	100
10200	Base Mat 5.3' x 4'	61 x 45	64 x 48	4	8	100
M54B	Base Mat 54"	52	54	4	12	100
M65BNE	Base Mat 54" (NE)	62	65	4	6	50
M54X54B	Base Mat 54" x 54"	54 x 54	58 x 58	4	11	100
M56X56B	Base Mat 56" x 56"	56 x 56	60 x 60	4	12.5/10.4	100
M56B	Base Mat 56"	56	60	4	12	100
M56BCMM	Base Mat 56" (COUMA x)	56	60	4	12	100
40150	Base Mat 56" x 12"	53	56	5	9	50
M57CLOCL	Base Mat 57" Century Link	57	60	4	10	100
M57LIDOCCL	Base Mat 57" Lid	57	60	4	12	100
ACP58	Base Mat ACP 58"	56	58	4	18	100
10140	Base Mat 6' x 6'	69 x 69	72	4	10	50
M66B	Base Mat 6' x 66"	66	72	4	11	100
M80NC	Base Mat 60" #6 x 74" OD	74	80	6	6.5	25
M94BPC	Base Mat 60" (Denver)	91	94	4	20	100
M84BPC	Base Mat 60" (GJ)	81	84	4	20	100
M60B	Base Mat 60" (CM)	57	60	4	12	100
M60BHS	Base Mat 60" (HS)	68	70	4	8	50
M60BOCL	Base Mat 60"	80	83	4	10	100
M72BNE	Base Mat 60" (NE)	69	72	4	6	50
M60BEXT	Base Mat 60" Ext.	81	84	4	8	50
M90BBS	Base Mat 60" Ext. (BS)	86	90	5	6	25
M60BEXTAV	Base Mat 60" Ext. (NE)	81	84	5	8	50
M61B	Base Mat 61"	59	61	5	12	100
M63B	Base Mat 63" (IL)	61	63	5	12	100
M63BHS	Base Mat 63"	63	67	4	8	50
M64B	Base Mat 64"	64	68	4	11	100
10170	Base Mat 64"	60	64	4	12	100
10170L	Base Mat 64" w/Legs	60	64	4	12	100
WI66	Base Mat 66"	63	66	4	12	100
ACP66	Base Mat 66" ACP	66	68	4	18	100
M66BHS	Base Mat 66" (HS)	66	70	4	8	50
M68B	Base Mat 68"	68	72	4	11	100
1003BTBBOT	Base Mat 69"	69	27	5	7	15
1003BTBTOP	Base Mat 69"	69	27	4	10	15
M7X15B	Base Mat 7' x 15'	90 x 186	93 x 189	4 & 5	12	24

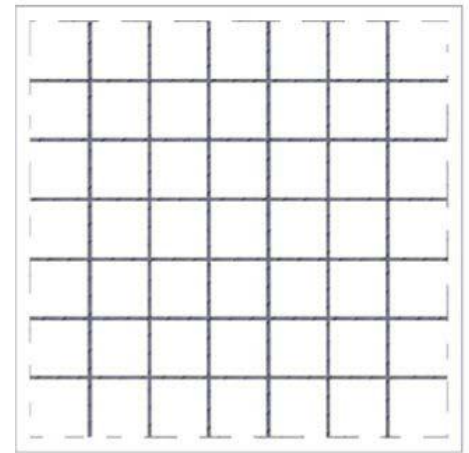




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Base Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
M7.5X3.5B	Base Mat 7.5' x 3.5'	45 x 94	48 x 97	4	12	100
M70BNE	Base Mat 70" (NE)	66	70	4	6	50
MAT70B	Base Mat 70"	66	70	4	12	100
M70BPT	Base Mat 70"	66	70	5	6	50
M70BCPP	Base Mat 70" (48" CP&P)	66	70	4	10	100
M70BCMM	Base Mat 70" (COUMA x)	70	74	4	10	100
M70X30B	Base Mat 70" x 30" (COUMA x)	70 x 30	73 x 33	4	34.5	100
M72BTN	Base Mat 72"	82	86	5	12	50
M72BLP	Base Mat 72" (LINPRE)	94	98	5	10	25
M98BPC	Base Mat 72" (DEN & GJ)	95	98	4	20	100
M98BPT	Base Mat 72" Ext.	94	98	5	6	25
M72BEXT	Base Mat 72" Ext.	95	98	5	8	50
10110	Base Mat 72"	69	72	4	12	100
10115	Base Mat 72"	69	72	5	12	100
M72B	Base Mat 72"	69	72	5	10	50
M72NC	Base Mat 72" #6	66	72	6	8.5	25
M96NC	Base Mat 72" #6	90	96	6	5.5	15
M72BHS	Base Mat 72" (HS)	83	86	5	8	50
M72BILBOT	Base Mat 72" (IL) Bottom	69	72	4	18	100
M72BILTOP	Base Mat 72" (IL) Top	69	72	4	10	100
M86BNE	Base Mat 72" (NE)	83	86	5	7.5	25
M94BBS	Base Mat 72" Ext. (BS)	90	94	5	6	25
10110L	Base Mat 72" w/Legs	69	72	4	12	100
M72X180B	Base Mat 72"X180"	81 x 182	84 x 185	5 & 6	8 & 11	13
M76BFBS	Base Mat 76" (BS)	72	76	5	6	50
M77BNE	Base Mat 77" (NE)	74	77	4	6	50
M77BCMCBOT	Base Mat 77" (CC) Bottom	74	77	4	18	50
M77BCMCTOP	Base Mat 77" (CC) Top	74	77	4	8	50
10160	Base Mat 78"	74	78	4	12	100
M78B	Base Mat 78" (IL)	74	78	5	12	100
10160L	Base Mat 78" w/Legs	74	78	4	12	100
M80B	Base Mat 80"	76	80	4	12	100
M82BCMM	Base Mat 82" (COUMA x)	82	86	4	10	50
M83B	Base Mat 83"	79	83	5	12	50
1005BTBBOT	Base Mat 83"	83	86	5	6	15
40200	Base Mat 84" x 84"	81 x 81	84 x 84	6	12	20
M84BPT	Base Mat 84"	81	84	5	6	25
M84X60B	Base Mat 84" x 60"	80 x 56	84 x 60	4	6	50
M84BHEN	Base Mat 84" (BHEN)	80	84	5	12	50
M84B	Base Mat 84"	80	84	4	12	50
M84BHV	Base Mat 84" (HV)	82	84	4	8	50
M108NC	Base Mat 84" #6 x 102" OD	102	108	6	4.5	10
M84BTN	Base Mat 84"	96	100	5	12	20
M85BNE	Base Mat 85" (NE)	81	85	4	6	50
10860	Base Mat 86"	83	86	4	12	25
10860L	Base Mat 86" w/Legs	83	86	4	12	25
M8888	Base Mat 88" x 88"	85	88	4	12	50

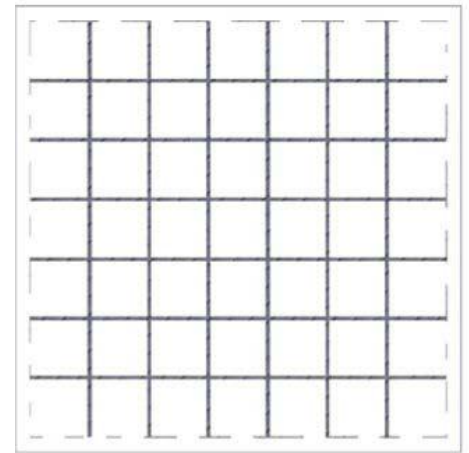




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Base Mats (continued)

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	C/C	Qty/ Pallet
M90X42B	Base Mat 90" x 42"	88 x 40	90 x 42	4	12	50
M90B	Base Mat 90"	87	90	4	12	25
10920	Base Mat 92"	89	92	4	12	25
10920L	Base Mat 92" w/Legs	89	92	4	12	25
M94B	Base Mat 94"	90	94	4	12	25
M94BHV	Base Mat 94" (HV)	92	94	4	8	50
10960	Base Mat 96"	93	96	4	12	25
M96BHV	Base Mat 96" (HV)	94	96	4	8	25
M96X72B	Base Mat 96" x 72"	82 x 68	96 x 72	4	6	50
M96BTN	Base Mat 96"	110	114	5	12	20
1007BTBBOT	Base Mat 96" Bottom	96	100	5	5	10
1007BTBTOP	Base Mat 96" Top	96	100	4	10	10
M98BFW	Base Mat 98"	94	98	6	17	50
M98BHEN	Base Mat 98" (BHEN)	94	98	5	12	50
M99BNE	Base Mat 99" (NE)	95	99	5	7.5	25
11000L	Base Mat 100" w/ Legs	97	100	4	12	25
M102B	Base Mat 102" (BS)	98	102	5	6	25
11060	Base Mat 106"	103	106	4	8	25
11060L	Base Mat 106" w/Legs	103	106	4	8	25
11100	Base Mat 110"	100	114	5	12	25
1009BTBBOT	Base Mat 110"	110	114	6	6	20
1009BTBTOP	Base Mat 110"	110	114	4	10	20
11140	Base Mat 114"	110	114	4	8	25
11140-5	Base Mat 114"	110	114	5	8	25
11200	Base Mat 120"	116	120	4	8	25
11200L	Base Mat 120" w/Legs	116	120	4	8	25
M122B	Base Mat 122"	118	122	4	8	25
11320L	Base Mat 132" w/Legs	129	132	4	8	25
M140BOT	Base Mat 140" - Bottom	138	140	6	12	10
M140TOP	Base Mat 140" - Top	138	140	6	6	10
11460L	Base Mat 146" w/Legs	143	146	4	8	10
40800	Base Mat 160" x 25.5"	25.5 x 160	29.5 x 164	5	Varies	50



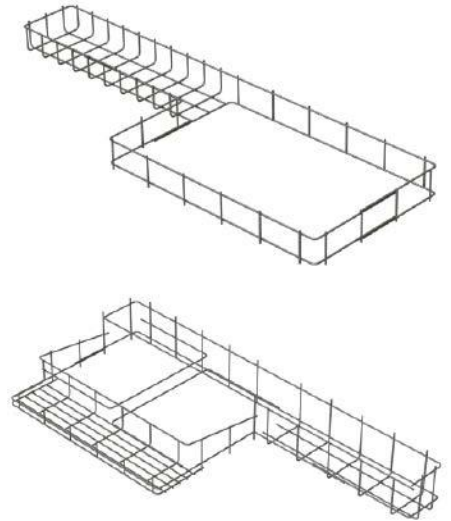
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Intake Cover Mats

Our Intake Cover Mats are rebar and deformed bar reinforcement mats. Intake mats can be made for round or square applications and are available with eccentric or centered manhole openings. We have the capability to custom design and manufacture rebar reinforcement products to meet your specific requirements.

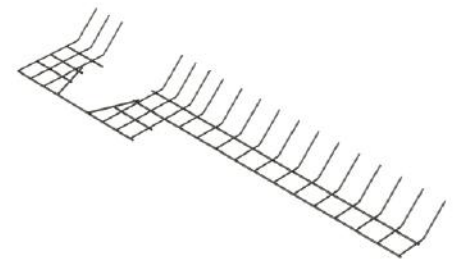
- Can be custom-made
- Available as base mat or cover mat
- Typical material is A706 grade 60 rebar

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	Qty/ Pallet
M73736022	73" x 73" x 60" x 22"	69 x 69	73 x 73	4	50
M2X5X16I	2' x 5' x 16" Inlet Mat	43 x 66	47 x 70	4 & 6	25
M4X6X16I	4' x 6' x 16" Inlet Mat	66 x 18	72 x 22	4 & 6	25
MSW503	MC Intake Cover	44 x 82	48 x 84	4	50
MSW506	ME Intake Cover	80 x 88	84 x 92	4	50
MSW507	4' x 3' Intake Mat, RA3	57 x 41.5	60 x 48	4	20
MSW508	4' x 4' Intake Mat, RA40	55.25 x 56	60 x 60	4	20
MSW509	3' x 8' Intake Mat, RA5	45.25 x 102.5	48 x 108	4	20
MSW510	4' x 8' Intake Mat, RA43	56 x 108	64 x 112	4	20
MSW513	4' x 4' Intake Cover Mat	60 x 60	64 x 64	4	50
PCO3X5L	3' x 5' PCO Left Mat	128 x 44	132 x 48	4	36
PCO3X5R	3' x 5' PCO Right Mat	128 x 44	132 x 48	4	36
PCO3X5C	3' x 5' PCO Center Mat	187 x 44	192 x 48	4	30
PCO3X5CLIDBOT	3' x 5' PCO Double Lid Bottom	189 x 43	192 x 48	4 & 5	50
PCO3X5CLIDTOP	3' x 5' PCO Double Lid Top	189 x 43	192 x 48	4	50
PCO3X5LLIDBOT	3' x 5' PCO Left Lid Bottom	129 x 43	132 x 48	4 & 5	50
PCO3X5LLIDTOP	3' x 5' PCO Left Lid Top	129 x 43	132 x 48	4	50
PCO3X5RLIDBOT	3' x 5' PCO Right Lid Bottom	129 x 43	132 x 48	4 & 5	50
PCO3X5RLIDTOP	3' x 5' PCO Right Lid Top	129 x 43	132 x 48	4	50
PCO4X5L	4' x 5' PCO Left Mat	128 x 56	132 x 60	4	36
PCO4X5R	4' x 5' PCO Right Mat	128 x 56	132 x 60	4	36
PCO4X5C	4' x 5' PCO Center Mat	187 x 56	192 x 60	4	30
PCO4X5CLIDBOT	4' x 5' PCO Double Lid Bottom	189 x 55	192 x 60	4 & 5	50
PCO4X5CLIDTOP	4' x 5' PCO Double Lid Top	189 x 55	192 x 60	4	50
PCU3X5L	3' x 5' PCU Left Mat	128 x 44	132 x 48	4	36
PCU3X5R	3' x 5' PCU Right Mat	128 x 44	132 x 48	4	36
PCU3X5C	3' x 5' PCU Center Mat	187 x 44	192 x 48	4	30
PCU4X5L	4' x 5' PCU Left Mat	128 x 56	132 x 60	4	36
PCU4X5R	4' x 5' PCU Right Mat	128 x 56	132 x 60	4	36
PCU4X5C	4' x 5' PCU Center Mat	187 x 56	192 x 60	4	30



Curb Inlet Mat

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	Qty/ Pallet
NECURB7	NE Curb Inlet 7 Type 4	75 x 39 x 11.25	88 x 47 x 14	5 & 6	25
NECURB15L	NE Curb Inlet 15 Left Typ 1-3	167 x 39 x 11.25	180 x 47 x 14	5 & 6	50
NECURB15R	NE Curb Inlet 15 Right Typ 1-3	167 x 39 x 11.25	180 x 47 x 14	5 & 6	50
TNCURBRTOP	Curb Mat Right Top (TN)	92	96	4 & 5	50
TNCURBRBOT	Curb Mat Right Bottom (TN)	92	96	4 & 5	50
TNCURBLTOP	Curb Mat Left Top (TN)	92	96	4 & 5	50
TNCURBLBOT	Curb Mat Left Bottom (TN)	92	96	4 & 5	50
TNCURBCTOP	Curb Mat Center Top (TN)	92	96	4 & 5	50
TNCURBCBOT	Curb Mat Center Bottom (TN)	92	96	4 & 5	50



Misc. Mats and Accessories

Part Number	Description	Rebar OD (in)	Slab OD (in)	Rebar Size	Qty/ Pallet
M27X8	27" x 8" Con Frame Mat	38	42	3	50
M1818	Box Culvert Lift Hole Reinforcement	18 x 18	N/A	4	200
16000	LP Catch Basins 27" C	40 x 56 x 27	44 x 60	4	3
15004	LP Angle Iron	2 x 2 x 1/4 x 57		4	1
15005	LP Angle Iron 60"	2 x 2 x 1/4 x 60		4	1
M7X15T	Top Mat 7' x 15'	90 x 186	93 x 189	4 & 5	1



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Eccentric Wire Cone Cages

Manhole Riser Cone Cages are prefabricated wire cages for concrete offset or centered riser/reducer sections. Cages are sold as formed, welded and ready to place in your concrete form.

We have the capability to custom design and manufacture wire cages and reinforcement products to meet your specific requirements.

Part Number	Description	Steel Area	Form/Company	Qty/Stack
215EFLM	1.5' E 48" x 24" (IP)	0.07	Presys	50
248271.5NWT	1.5' E 48" x 27" (NWT)	0.15	Nortan	30
248242NC	2.0' E 48" x 2.04" (NC)	0.16	Norbay	40
248242J	2.0' E 48" x 2.04"	0.12	Conjes, Folprod	40
248242S	2.0' E 48" x 2.04"	0.12	Minnser	25
248242PC	2.0' E 48" x 2.04" (PC)	0.12	Ringj, Rinhen	45
248242RS	2.0' E 48" x 2.04" (RS)	0.12	Rinmar, Rinced	25
220EFLM	2.0' E 48" x 2.04" IP	0.07	Rinmari	40
248272HC	2.0' E 48" x 2.07" (HC)	0.15	Rincom, Folcla	30
248272HCS	2.0' E 48" x 2.07" (HCS)	0.12	Folprod, Folcla	35
248282HP	2.0' E 48" x 2.08"	0.06	Rincul	40
248302	2.0' E 48" x 30"	0.12	Noreas	25
248302EJP	2.0' E 48" x 30" (JP)	0.15	Jennor	30
248322E	2.0' E 48" x 32"	0.15	Parenv	25
248342E	2.0' E 48" x 34"	0.15	Rinlor	25
248362EJP	2.0' E 48" x 36" (JP)	0.15	Jennor	30
260482E	2.0' E 60" x 48"	0.15	Ringra	30
23048X24	2.5' E 48" x 24"	0.12	Coumad	25
248242.5	2.5' E 48" x 24"	0.12	Rinhen	30
248242.5PCH	2.5' E 48" x 24" (PCH)	0.12	Ringj	35
248242.5ENWT	2.5' E 48" x 24" (NWT)	0.15	Nortan	25
260242.5EFH	2.5' E 60" x 24"	0.15	Lincol, Lindac, Rinhen	25
260242.5EFH-S	2.5' E 60" x 24" (Short)	0.15	Lincol, Lindac	25
248X27EUP	2.7' E 48" x 27"	0.12	Uppcon	25
248X27EUP4	2.7' E 48" x 27" – 4" Taller	0.12	Uppcon	20
248X27EUP4-7	2.7' E 48" x 27" 4" Taller - 7 Rod	0.15	Crelac	25
248242.8ECPP	2'-8" E 48" x 24" (CPP)	0.12	Conmar	30
248242.8NC	2.8' E 48" x 24" (NC)	0.16	Norbay	20
248242.8AMKC	2.8' E 48" x 24" (AMKC)	0.12	Lindcol, Lindac	30
260482.8CPP	2.8' E 60" x 48" (CPP)	0.15	Cppash	20
24226	3.0' E 42" x 26" (AMEMIL)	0.12	Coumil	35
248243AMKC	3.0' E 48" x 24" (AMKC)	0.12	Ameikan	25
248243NWT	3.0' E 48" x 24" (NWT)	0.12	Nortan	30
2004CVC	3.0' E 48" x 24"	0.16	Cempip	20
248243J	3.0' E 48" x 24"	0.12	Conjes	20
248243R	3.0' E 48" x 24"	0.12	Folprod, Oldlak	30
248243S	3.0' E 48" x 24"	0.12	Rinbar, Folprod, Rinsac	25
2004BS	3.0' E 48" x 24" (BS)	0.15	Ameval, Oldtop	20
2004CVC-1	3.0' E 48" x 24" – 1" Shim	0.15	Rinsac	20
248242.8ECPPBU	2'-8" E 48" x 24" Bell Up (CPP)	0.17	Conmar	30
24824	3.0' E 48" x 24" GB	0.16	Cempip, County, Ringj, Rinhen, Oldtop, Prepre	30
24824L	3.0' E 48" x 24" GB-L	0.16	Coumax	20





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Eccentric Wire Cone Cages (continued)

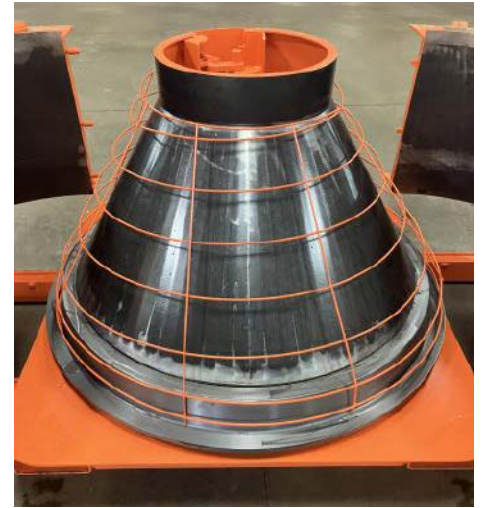
Part Number	Description	Steel Area	Form/Company	Qty/Stack
230EFLM	3.0' E 48" x 24" IP	0.07	Rinmari	30
248243EIDF	3.0' E 48" x 24" (IDF)	0.15	N/A	20
248243EOCL	3.0' E 48" x 24"	0.15	Oldlit	30
24826	3.0' E 48" x 26" GB	0.16	Cougre, Minnsen	35
24826V	3.0' E 48" x 26" GB w/ 1/4" Shims	0.16	Ameval	35
248263ECI	3.0' E 48" x 26" (CI)	0.12	Conlin	25
248273HCKL	3.0' E 48" x 27" (HCK) +3.0"	0.15	Couhol	15
248273ECMIL	3.0' E 48" x 27"	0.15	Coumat	25
2004-9	3.0' E 48" x 27"	0.10	Cempip, Coumat, Rinsta, Rinsha	20
2004GF	3.0' E 48" x 27"	0.15	Rinhaw	30
2004MT	3.0' E 48" x 27"	0.12	Rinmar, Rincla, Rinmit	20
24827E	3.0' E 48" x 27"	0.15	Rincom	35
2004GFS	3.0' E 48" x 27" – Shimmed	0.15	Couhol	30
248273HCK	3.0' E 48" x 27" (HCK)	0.15	Oldcas	15
236NH	3.0' E 48" x 27" NH Wet Cast	0.10	Oldsf, Oldcou	25
248283LEP	3.0' E 48" x 28.5"	0.12	Leepre	25
248X28.5IAC	3.0' E 48" x 28.5" (IAC)	0.15	Couiow	25
248283HP	3.0' E 48" x 28"	0.06	Rincul	30
248303	3.0' E 48" x 30"	0.15	Couhol, Noreas	20
248303EIDF	3.0' E 48" x 30" (IDF)	0.15	Oldida	30
248303GP	3.0' E 48" x 30"	0.12	Ringra	25
248303GPIF	3.0' E 48" x 30" (IDF)	0.12	Oldida	25
248303EMW	3.0' E 48" x 30" (MW)	0.15	M&WPRE	25
25426EFP	3.0' E 54" x 26"	0.15	Rinpla	25
26024AV	3.0' E 60" x 24" (AV)	0.15	Ameval	15
26024AVS	3.0' E 60" x 24" (AVS)	0.15	Ameval	25
26024AVH	3.0' E 60" x 24" (H)	0.15	Ameval	25
260243EOCL	3.0' E 60" x 24"	0.15	Oldlit	25
260283	3.0' E 60" x 28"	0.15	Folprod, Rinhat	20
260303EOCL	3.0' E 60" x 30"	0.15	Lincol	25
260303EUT	3.0' E 60" x 30"	0.15	Oldogd	30
260483R	3.0' E 60" x 48"	0.12	Rinsac	15
272243EOCL	3.0' E 72" x 24"	0.20	Rinhen	15
272243EOCLH	3.0' E 72" x 24" (HEN)	0.20	Rinhen	15
272243EOCL-S	3.0' E 72" x 24" (Short)	0.20	Oldlit	15
24824CMIA	3.3' E 48" x 24"	0.15	Colupre	25
248253.3PP	3.3' E 48" x 25"	0.15	Precan	20
24827CMIA	3.3' E 48" x 27"	0.15	Couiow	20
248243.5EK	3.5' E 48" x 24"	0.15	Oldken	25
2142	42" E 48" x 27"	0.15	Coumat, Oldold, Oldlak	25
2101	42" E 48" x 27"	0.15	Rinsta, Oldold, Oldsf	20
260243.5EOCL-S	3.5' E 60" x 24" (Short)	0.15	Lincol, Lindac	25
260303.5	3.5' E 60" x 30"	0.15	Jenpho	30
248244J	4.0' E 48" x 24"	0.12	Conjes	10
2005CW	4.0' E 48" x 24"	0.15	Andpre	20
248244ECPBU	4.0' E 48" x 24" Bell Up (CPP)	0.15	Conmar	15
248244MTP	4.0' E 48" x 24" (MTP)	0.12	Montpre	20



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Eccentric Wire Cone Cages (continued)

Part Number	Description	Steel Area	Form/Company	Qty/Stack
248274EWPS	4.0' E 48" x 27"	0.15	Wieste	15
2005FS	4.0' E 48" x 27"	0.15	Oldken, Rinsta	20
2148	4.0' E 48" x 27"	0.15	Coumat, Oldold, Oldlak	20
2005GF	4.0' E 48" x 27"	0.15	Rinhaw, Rinmen	20
2005HS	4.0' E 48" x 27"	0.12	Bilpre, Rinsta, Rinsha	15
2005MT	4.0' E 48" x 27"	0.10	Rinmit	20
2005D	4.0' E 48" x 27" (CCPDUL)	0.15	Rinsha	25
2200	4.0' E 48" x 27" (HC)	0.11	Oldcas	20
2005FSS	4.0' E 48" x 27" (2005FS – 2")	0.15	Oldken	20
248304	4.0' E 48" x 30"	0.12	Noreas	15
25426E	4.0' E 54" x 26" (ACPOMA)	0.15	Ameval	15
25426ED	4.0' E 54" x 26" Dry Cast	0.15	Ameval	20
26024	4.0' E 60" x 24"	0.15	Rinbon	30
260244EK	4.0' E 60" x 24"	0.15	Oldken	20
26027	4.0' E 60" x 27"	0.15	Ameval, Rinbon, Rinhen	15
26027EL	4.0' E 60" x 27" Ext.	0.15	Couiow	15
26027ET	4.0' E 60" x 27"	0.15	Midbon	15
260482ERL	2.0' E 60" x 48"	0.15	N/A	25
260484CPP	4.0' E 60" x 48"	0.15	Conash	15
26048	4.0' E 60" x 48" RD	0.15	Coumat, Ringra, Rinhaw, Oldsf	13
272484CPP	4.0' E 72" x 48"	0.18	Conash	15
27248	4.0' E 72" x 48" RD	0.15	Conash, Coumat, Rinell	15
2103	4.0' E 48" x 27" (S)	0.13	Rinsta	15
2482443	4'3" E 48" x 24"	0.12	Rinbar	13





Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Concentric Wire Cone Cages

Part Number	Description	Steel Area	Form/Company	Qty/Stack
2002MOD	1.0' C 48" x 27" Ext.	0.27	Rinsha	30
24010H	1.3' C 48" x 27"	0.15	Coumat, Oldtop, Rinsta	35
215CD	1.5' C 48" x 24"	0.15	Rinsac	40
220CLF	2.0' C 48" x 24" (IP)	0.13	Presys	45
220CD	2.0' C 48" x 24"	0.15	Rinsac	45
225CDS	2.0' C 48" x 24"	0.15	Folcla	40
220CHP	2.0' C 48" x 28"	0.15	Rincul	50
248242C	2.0' C 48" x 24"	0.15	Oldcap	50
248322C	2.0' C 48" x 32"	0.15	Parenv	60
248342C	2.0' C 48" x 34"	0.12	Rocsol	50
248352C	2.0' C 48" x 35"	0.12	Oldbro	50
260322C	2.0' C 60" x 32"	0.15	Ringra	40
260342C	2.0' C 60" x 34"	0.15	Ametex	35
26048C	2.0' C 60" x 48"	0.15	Rinsac	50
242272.5CSTL	2.5' C 42" x 27"	0.12	Coumat	30
225CD	2.5' C 48" x 24"	0.15	Rinhen, Rinsac	35
2483225C	2.5' C 48" x 32"	0.15	Parenv, Ringra	50
225CDL	2.7' C 48" x 24"	0.15	Coumad	25



Concentric Wire Cone Cages (continued)

Part Number	Description	Steel Area	Form/Company	Qty/Stack
242273CSTL	3.0' C 42" x 27"	0.15	Coumat	30
24824C	3.0' C 48" x 24" (.252 at 6)	0.10	Cempip, Rinbar	35
2305F	3.0' C 48" x 27"	0.15	Rincom, Oldsf	30
230CD	3.0' C 48" x 27" (CCPDUL)	0.15	Rinsha	25
230CH	3.0' C 48" x 27"	0.15	Forhaw	50
248273CSTL	3.0' C 48" x 27"	0.12	Coumat	30
2201	3.0' C 48" x 27" (Hancock)	0.12	Folcla, Oldcou	25
230CW	3.0' C 48" x 27" Wet Cast	0.15	Rindul	20
248303COCM	3.0' C 48" x 30"	0.12	Oldman	40
248303C	3.0' C 48" x 30"	0.15	Couhol	40
248323C	3.0' C 48" x 32"	0.12	Parenv	35
248343C	3.0' C 48" x 34"	0.12	Rocsol	35
24834.53C	3.0' C 48" x 34.5"	0.15	Rinlor	25
248363CBU	3.0' C 48" x 36"	0.17	Conmar	20
25426C	3.0' C 54" x 26" (ACPOMA)	0.12	Ameval, Rinpla	50
260303C	3.0' C 60" x 30"	0.15	Rinroa	15
260303COCM	3.0' C 60" x 30"	0.15	Oldman	20
260303CUT	3.0' C 60" x 30"	0.15	Oldogd	35
260343C	3.0' C 60" x 34"	0.15	Rocsol	35
235CD	3.5' C 48" x 27" (CCPDUL)	0.15	Rincul	25
235CW	3.5' C 48" x 27" Wet Cast	0.15	Rindul	20
260303.8C	3.8' C 60" x 30"	0.15	Oldken	35
24824CW	4.0' C 48" x 24"	0.15	Bilpre, Rinosk	20
24824CWL	4.0' C 48" x 24" Ext.	0.15	Bilpre	15
2005C	4.0' C 48" x 27" (CCPDUL)	0.15	Coumat, Oldcou	20
2005CS	4.0' C 48" x 27" (Nance)	0.15	Nancepre	35
2005HCK	4.0' C 48" x 27" (HCK)	0.15	Oldcan	15
240CW	4.0' C 48" x 27" Wet Cast	0.15	Rinhaw, Rinsha	15
248274CWPS	4.0' C 48" x 27"	0.15	Wieste	15
24834.54C	4.0' C 48" x 34.5"	0.15	Rinlor	12
248304COCM	4.0' C 60" x 30"	0.16	Oldman	10
260344C	4.0' C 60" x 34"	0.15	Rocsol	30
26036C	4.0' C 60" x 36" (SAC)	0.12	Rinsac	35
2482443C	4'3" C 48" x 24"	0.12	Rinbar	14
2005CM-2	4.5' C 48" x 27" (CM)	0.12	Coumat	15



Flared End Round Pipe Wire Cages

Round pipe wire flared end cages are prefabricated wire cages for concrete flared end sections. Cages are sold as formed, welded and ready to place in your concrete form.

We have the capability to custom design and manufacture wire cages and reinforcement products to meet your specific requirements.

Part Number	Description	Steel Area	Form/Company	Qty/Stack
2012	12" Flared End	0.08	Rinbar, Rinell, Rinsha	3
2008	12" Flared End	0.07	Cempip, Oldcas, Rinbon, Rindes, Rinind, Rinwhi	3
2008L	12" Flared End - Extended	0.08	Rindes, Rinind, Rinwhi	3
2212	12" Flared End Dry Cast NH	0.10	County, Conjes, Norbay, Oldtop	4
2009	15" Flared End	0.07	Ameval, Cempip, Rineli, Rinmit, Rinrap, Oldsf	3
2115	15" Flared End	0.08	Oldcou, Folcla, Folprod, Rin	4
2115L	15" Flared End - Extended	0.08	Rinbon, Rindes, Rinoak, Rinwhi	4
2215	15" Flared End Dry Cast NH	0.10	Couhol, Coumad, Conjes, Rincul, Norbay, Rinoak	5
2006	18" Flared End Dry Cast	0.10	Rinhaw, Nancepre	5
2218	18" Flared End Dry Cast NH	0.10	Conjes, Couhol, Coumad, Rincul, Norbay	6
2106	18" Flared End Wet Cast	0.08	Ameval, Cempip, Folcla, Oldcas, Rinber	5
2106L	18" Flared End Wet Cast - Ext	0.08	Rinbon, Rindes, Rinokl, Rinind	4
221QF	21" Flared End QF Wet Cast	0.08	Conjes, Coumad, Coumat, Rinsha, Oldcou	6
221ER	21" Flared End Wet Cast (ER)	0.08	Conjes, Rinsha	6
2007	24" Flared End Dry Cast	0.12	Rinelk, Rinhaw, Nancepre	7
2224	24" Flared End Dry Cast NH	0.10	County, Conjes, Norbay, Rinoak	6
2107	24" Flared End Wet Cast	0.09	Ameval, Cempip, Oldcas Oldtop, Rinind	8
2107L	24" Flared End Wet Cast	0.09	Rinbon, Rindes	6
2107EW	24" Flared End Wet Cast (Extra Wire)	0.09	Pretec	8
227ER	27" Flared End	0.13	Conjes, Rindes, Rinsha	6
230ER252	30" Flared End	0.18	Rinokl	5
230ERLBC	30" Flared End ERL BC	0.15	Rindes, Rinmen, Oldtop	5
230ER	30" Flared End Wet Cast	0.14	Rinhaw, Rinmit, Rinsha	5
2230	30" NH Flared End	0.15	N/A	10
230QF-3	30" Flared End Wet Cast - 3" Spacing	0.15	Ameval, County, Folprod, Norbay	10
230ERL-A	30" Flared End Wet Cast Ext.	0.14	Rinbon, Rindes, Oldtop	5
233ER	33" Flared End	0.15	Coumat, Rinsha	5
233QF-8	33" Flared End	0.20	Coumat	5
236ER	36" Flared End Wet Cast	0.21	Rinmat	3
236QF-3	36" Flared End Wet Cast - 3" Spacing	0.20	Ameval, Cempip, Coumad, Folprod, Oldcas	5
236-3NH	36" Flared End (NH)	0.15	Rinoak	3
242R-SS	42" Flared End Short	0.20	Rinber	3



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Flared End Round Pipe Wire Cages (continued)

Part Number	Description	Steel Area	Form/Company	Qty/Stack
242R	42" Flared End Reinf.	0.20	Cempip, Rinterra, Oldcas	3
242R-CF	42" Flared End Reinf. (CF)	0.20	Oldcan	3
242R-S	42" Flared End Reinf. (Short)	0.20	Ameval, Scujon	3
242ERV	42" Flared End Vertical (ER)	0.20	Rinelk, Oldtop	2
248R-SS	48" Flared End Short	0.20	Rinber	3
248R	48" Flared End Reinf.	0.20	Cempip, Rindes	3
248R-S	48" Flared End Reinf. (Short)	0.20	Ameval, Rinokl, Oldcan, Rinber, Scujon	3
248ERV	48" Flared End Vertical (ER)	0.20	Rinbon, Rinelk, Oldtop	2
254RH	54" Flared End Horizontal	0.37	Ameval, Cempip, Rinco, Rinpre, Oldcan, Oldsf	3
254RV-B	54" Flared End Vertical	0.48	Rindes, Oldcan	1
254RVB-ER	54" Flared End Vertical (ER)	0.48	Rinelk	1
260RV-B	60" Flared End Vertical	0.54	Rindes	1
260RV-S	60" Flared End Vertical Short	0.54	Rinber	3
260RV	60" Flared End Reinf.	0.34	Amekan, Oldcan, Oldsf	3
266RV	66" Vertical Flared End	0.34	Oldcon	3
272RV	72" Flared End Reinf.	0.49	Ameval, Rincom, Rindes, Oldcas	3
272RV-B	72" Flared End Vertical	0.80	Rindes	2
272RV-ER	72" Vertical	0.49	Rintpip	3



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Flared End — Elliptical, Arch, Span Pipe Cone Cages

Span and Elliptical wire flared end cages are prefabricated wire cages for concrete flared end sections. Cages are sold as formed, welded and ready to place in your concrete form.

We have the capability to custom design and manufacture wire cages and reinforcement products to meet your specific requirements.

Part Number	Description	Steel Area	Form/Company	Qty/Stack
Elliptical				
214X22	14" x 22" Elliptical	0.09	Coumad, Conjes	4
214X22EW	14" x 22" Elliptical - Extra Wire	0.09	Rinelm	4
219X30	19" x 30" Elliptical	0.09	Coumad, Conjes, Ameval	7
224X38	24" x 38" Elliptical	0.22	Courob	5
229X45	29" x 45" Elliptical	0.22	CP&P, Coumad, Scufay	3
234X53	34" x 53" Elliptical	0.30	Coumad	2
238X60	38" x 60" Elliptical	0.27	Coumad, Cougre	3
243X68	43" x 68" Elliptical	0.40	Coumat	3
248X76	48" x 76" Elliptical	0.48	Coumat	3
Arch				
222CL2	22" Arch Flared End	0.16	Folcla, Rincom	3
229CL2	29" Arch - .192 Wire	0.17	Folcla, Rincom	6
229CL3	29" Arch - .225 Wire	0.24	Rincom, Rinokl	5
236HARCH-6	36" Arch Flared End	0.33	Dunuti, Rinpip	5
244HARCH	44" Arch Flared End	0.22	Rincom, Rinokl	3
251HARCH	51" Arch Flared End	0.27	Rincom, Rinokl	2
259HARCH	59" Arch Flared End	0.48	Dunuti	3
265HARCH	65" Arch Flared End	0.36	Dunuti	3
273HARCH	73" Arch Flared End	0.42	Dunuti	3
Span				
229HCK	29" Span (Hancock)	0.16	Oldcan, Oldsf	2
229SP	29" Span (ERC)	0.16	Rindes, Rinell, Rinrap	4
236SRH	36" Span Horizontal	0.33	Oldsio	3
284RH	84" Span Horizontal FE	0.46	Cempip	2
236SRV-MN	36" Span Vertical FE (MN)	0.33	Rincom, Rinell, Oldcan, Oldsf, Rinkokl	1
244SRV-MN	44" Span Vertical FE (MN)	0.33	Rincom, Rinell, Oldcan, Oldsf	1
251SRV-MN	51" Span Vertical FE (MN)	0.55	Oldcan, Oldsf	1
259SRV-MN	59" Span Vertical FE (MN)	0.48	Rincom, Rinell, Oldcan, Oldsf	1
265SRV-MN	65" Span Vertical FE (MN)	0.48	Oldcon	1
273SRV-MN	73" Span Vertical FE (MN)	0.50	Rincom, Oldcan, Oldsf	1
284RV-B	84" Span Vertical FE	0.46	Rinmap	2
288SRV-MN	88" Span Vertical FE (MN)	0.53	Rincom, Oldcan	1
288SRVT	88" Span Vertical Full Taper	0.50	Rincom	3

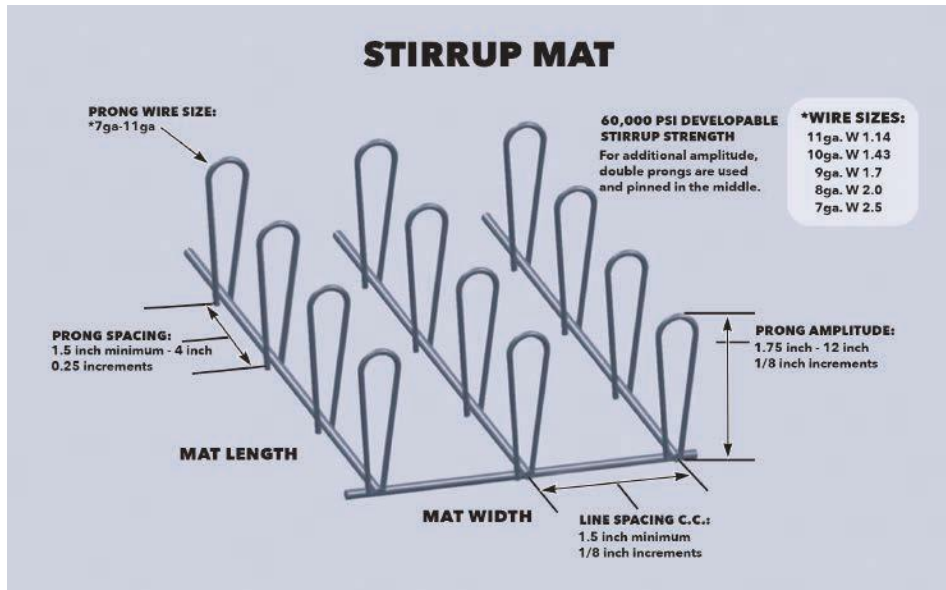


Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Shear Steel Stirrup Mats

Shear steel reinforcement mats also known as stirrup mats are made up of welded wire reinforcement used in concrete pipe and precast products for shear reinforcement. The wire reinforcement stirrups are bent in a loop and placed perpendicular to the reinforcing cages. Producers use shear steel reinforcement to increase shear capacity of the member when shear capacity provided by concrete alone is not adequate.

Afinitas offers Stirrup Mats as a top shear steel solution for concrete pipe, box culverts and three-sided precast concrete structures.



The benefits of our shear steel reinforcement mats include:

- 200% mechanical bond increase
- Easy installation pre-fabricated mats
- Versatile! Adapts to any cage configuration for concrete pipe or boxes
- Positive placement of shear members
- Great resistance to pull out

Quick Installation and Handling of Stirrup Mats

Stirrup Mats are shipped completely assembled, ready for immediate installation to the inner or outer cage. The required number of stirrup elements (lines) are held in place by flexible element tie wires allowing the panel to be formed by hand to contour of the cage. Loops and elements are spaced to permit easy installation, and may be held in place.

Shear Steel Stirrup Mat Installation

There are two methods commonly used for installing Stirrup Mats. The most common of these is to place a Stirrup Mat inside the inner cage with the loops directed toward the outer wall of the pipe. The mat is then securely attached to the inner cage with rebar tie wires.

An alternate method is to insert the loops through the outer cage toward and through the inner cage. Lock Rods are then inserted into the tips of the loops which extend through the inner cage. This method is preferred when Stirrup Mats are required for small to medium diameter pipe when it is difficult to install the mats from inside of the cage.

Box Culverts and three-sided structures often require shear reinforcement on both cages for top, bottom and side walls. System provides shear reinforcement to both cages, as well as securely tying the cages together.

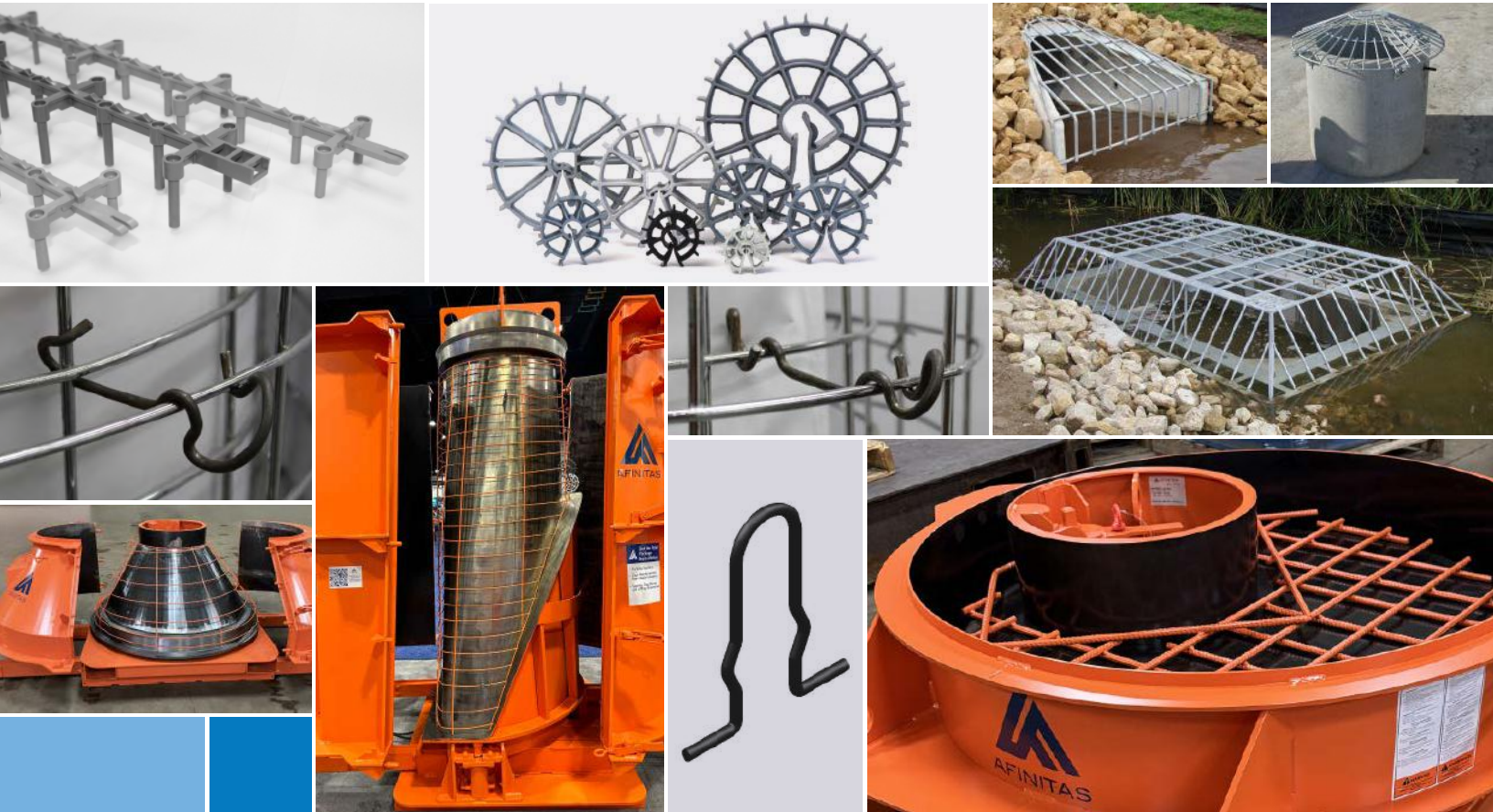
Shear Steel Design Assistance

We are happy to work with you in developing a manufacturable design for concrete pipe, box culverts and three-sided structures. Please contact us at 1-800-338-0715 for more information on this service. All designs and drawings must be reviewed and accepted or changed by qualified personnel within your company familiar with the product, design and end use prior to production. Afinitas and its associates assume no responsibility for the adequacy of these designs or the products produced using these designs or drawings.





Let Us Help with Your Made in the USA Requirements



Afinitas Offers Many USA-Made Steel and USA-Manufactured Concrete Accessories.

Facing Build America, Buy America (BABA) Act requirements? Afinitas can help. We offer a wide variety of quality, Made in the USA products, including steel and plastic spacers, wire cone cages, rebar mats, pipe ties-tie rods, grates, trash guards and more. Many are proudly manufactured at our plant in Sleepy Eye, MN.

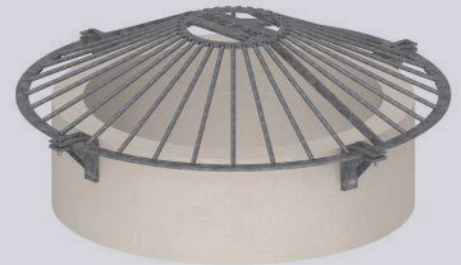
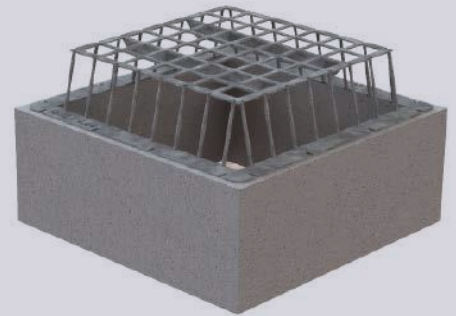


Visit www.afinitas.com/accessories
to see the selection or contact your local Afinitas sales rep.

GRATES



Made in the USA steel grates are high-quality, durable solutions specifically engineered for stormwater drainage applications. These grates are designed to provide efficient water flow management while withstanding heavy loads and harsh environmental conditions. Manufactured to meet rigorous standards, they ensure long-lasting performance and reliability.



See our entire offering of
grates.

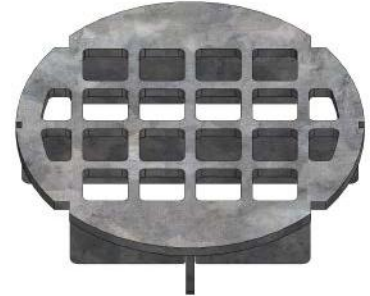


Bell End Grates

Bell End Grates are designed to set into the bell end of a vertical pipe. Grating has support bars welded on the bottom side to elevate grate and make flush with pipe.

- Made from 1/2" plate with 2" openings
- Fits inside bell end pipe
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe Size (in)	Grate OD (in)	Grate Height (in)	Opening Size (in)
BEG12	12	15.4	3.5	2
BEG15	15	18.6	3.5	2
BEG18	18	22	3.5	2
BEG24	24	29	4.0	2



Outlet Screens

CMP and HDPE Outlet Screens designed to mount on an inlet or outlet pipe and prevent small debris from passing through. Screens are available as inside or outside mounting. Outside mounts are sized to fit CMP. Inside mounts can be installed in any style of pipe.

- Plate design is durable and clean
- 1/4" plate thickness
- Typical openings are 2" but also available as 1" and custom sizes
- Includes 4 mounting tabs for through bolts or self-drilling screws
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe Size (in)	Grate OD (in)
Outside Pipe		
OS12	12	14
OS12-1 (1" Openings)	12	14
OS15	15	17
OS18	18	20
OS24	24	26
OS24-1 (1" Openings)	24	26
OS30	30	32
OS36	36	38
OS48	48	50
Inside Pipe		
OS12IS	12	11 1/2
OS15IS	15	14 1/2
OS18IS	18	17 1/2
OS24IS	24	23 1/2
OS30IS	30	29 1/2
OS36IS	36	35 1/2
OS48IS	48	47 1/2



Outside Pipe



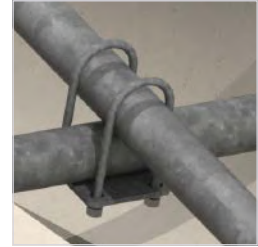
Inside Pipe

Barrel Pipe Grates

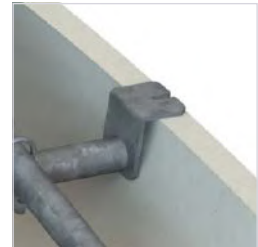
Vehicle Safety Grates are designed to fit 4:1 sloped barrel pipe sections. Also known as Barrel Pipe Grates.

- Constructed of 3" Sch 40 pipe and galvanized
- Upper cross pipe to have firm contact with apron and longitudinal pipe
- Two longitudinal pipes equally spaced required on 72" diameter apron
- Bent or cut and welded pipe

Part Number	Apron Size (in)	# Cross Pipes	Long (in)	Bottom Cross Pipe	Top Cross Pipe (in)
PG12-3132A	12	1	—	—	—
PG15-3132A	15	1	—	—	—
PG18-3132A	18	1	—	—	—
PG21-3132A	21	1	—	—	—
PG24-3132A	24	1	94	22" x 90°	—
PG27-3132A	27	1	—	—	—
PG30-3132A	30	1	96	25" x 90°	—
PG33-3132A	33	1	—	—	—
PG36-3132A	36	1	112	29" x 80°	—
PG42-3132A	42	1	140	37" x 86°	—
PG42-3132AMN	42	1	140	37" x 86°	—
PG48-3132A	48	1	174	42" x 86°	—
PG54-3132A	54	2	190	51" x 86°	69
PG54-3132A-RC	54	—	—	—	—
PG60-3132A	60	2	226	52" x 86°	76
PG66-3132A	66	2	—	—	—
PG72-3132A	72	2	276	53" x 85°	90
PG84-3132A	84	—	—	—	—
PG90-3132A	90	—	—	—	—



U-Bolt Design



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

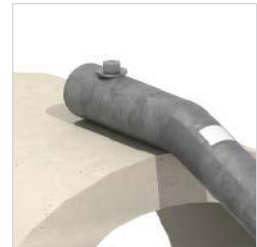
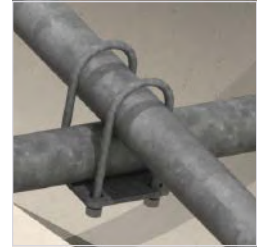
Flared End Vehicle Safety Grates

Vehicle Safety Grates for centerline concrete inlets are designed to fit concrete flared end sections. Also known as Pipe Grates.

- Constructed of 3" Sch 40 pipe and galvanized
- Cross Pipe (with Angle Brackets) mount to side of pipe
- Vertical Pipe (bent) attach to top of pipe
- Equal spacing — Not To Exceed 24" c/c

Part Number	Size (in)
Round	
PG12-RD	12
PG15-RD	15
PG18-RD	18
PG21-RD	21
PG24-RD	24
PG27-RD	27
PG30-RD	30
PG33-RD	33
PG36-RD	36
PG42-RD	42
PG48-RD	48
PG54-RD	54
PG60-RD	60
PG66-RD	66
PG72-RD	72
PG78-RD	78
PG84-RD	84
PG90-RD	90
Span	
PG22-SP	22
PG29-SP	29
PG36-SP	36
PG44-SP	44
PG51-SP	51
PG59-SP	59
PG65-SP	65
PG73-SP	73
PG88-SP	88

Pipe Requirements		
Pipe Size	Cross Pipe	Vertical Pipe
12" – 36" Round	1	2
40" – 60" Round	1	3
37" – 45" Round	1	3
66" – 78" Round	1	4
52" – 74" Span	1	4
84" – 90" Round	1	5
89" – 104" Span	1	5



Safety Apron Grates

Safety Grates are designed to cover the sloped round pipe end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system. Grates are designed around MN DOT Standard Plate 3128H (for metal pipe). Grates are offered with two options for mounting: Swinging side mount tabs or a dropped end bar.

- Solid bar design for durability and long life
- Typical bar c/c is 12" – 18" one direction
- Galvanized steel construction
- Can be made from aluminum or stainless steel



Part Number	Pipe Diameter (in)	Slope
4:1 Slope		
SG18413128	18	4:1
SG24A413128	24	4:1
6:1 Slope		
SG12613128	12	6:1
SG15613128	15	6:1
SG18613128	18	6:1
SG18A613128	18	6:1
SG24613128	24	6:1
SG30613128	30	6:1
SG36613128	36	6:1
SG36A613128	36	6:1
SG48613128	48	6:1
10:1 Slope		
SG121013128	12	10:1
SG151013128	15	10:1
SG181013128	18	10:1
SG18A1013128	18	10:1

Safety Grates — Royal Style

Safety Grates are designed to cover the sloped round pipe end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system. Designed around MN DOT Standard Plate 3022C, design option 2 for round pipe end sections. Grates are offered with three options for mounting: Top mount tabs, swinging side mount tabs or a dropped end bar.

- Solid 1 1/2" bar design for durability and long life
- Typical bar c/c is 12" – 18" one direction
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Apron Size (in)	Slope
4:1 Slope		
SG1841R	18	4:1
SG2441R	24	4:1
SG3041R	30	4:1
SG3641R	36	4:1
6:1 Slope		
SG1261R	12	6:1
SG1561R	15	6:1
SG1861R	18	6:1
SG2461R	24	6:1
SG3061R	30	6:1
SG3661R	36	6:1

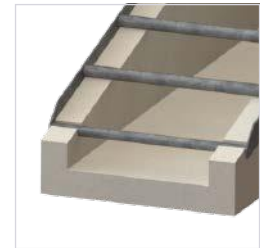
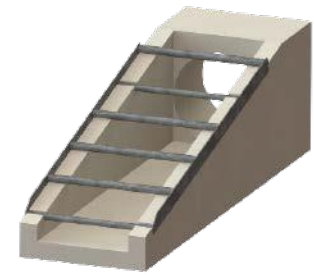


Safety Grate Mounting Options

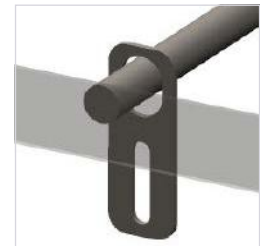
Multiple mounting options available (see 1, 2, 3 below). Please specify mounting option when ordering.

NOTE: Galvanized per spec. 3394 after fabrication. Safety apron shall be constructed of structural steel per spec. 3306. All cross bars shall be welded all around to steel plate frame.

Apron Size (in)	Option 1	Option 2	Option 3
4:1 Slope — 12" CC 1 1/2" Bar			
12	SG1241A-1	SG1241A-2	SG1241A-3
15	SG1541A-1	SG1541A-2	SG1541A-3
18	SG1841A-1	SG1841A-2	SG1841A-3
24	SG2441A-1	SG2441A-2	SG2441A-3
30	SG3041A-1	SG3041A-2	SG3041A-3
36	SG3641A-1	SG3641A-2	SG3641A-3
42	SG4241A-1	SG4241A-2	SG4241A-3
48	SG4841A-1	SG4841A-2	SG4841A-3
4:1 Slope — 6" CC 1 1/4" Bar			
12	SG1241B-1	SG1241B-2	SG1241B-3
15	SG1541B-1	SG1541B-2	SG1541B-3
18	SG1841B-1	SG1841B-2	SG1841B-3
24	SG2441B-1	SG2441B-2	SG2441B-3
30	SG3041B-1	SG3041B-2	SG3041B-3
36	SG3641B-1	SG3641B-2	SG3641B-3
42	SG4241B-1	SG4241B-2	SG4241B-3
48	SG4841B-1	SG4841B-2	SG4841B-3
6:1 Slope — 12" CC 1 1/2" Bar			
12	SG1261A-1	SG1261A-2	SG1261A-3
15	SG1561A-1	SG1561A-2	SG1561A-3
18	SG1861A-1	SG1861A-2	SG1861A-3
24	SG2461A-1	SG2461A-2	SG2461A-3
30	SG3061A-1	SG3061A-2	SG3061A-3
36	SG3661A-1	SG3661A-2	SG3661A-3
42	SG4261A-1	SG4261A-2	SG4261A-3
48	SG4861A-1	SG4861A-2	SG4861A-3
6:1 Slope — 6" CC 1 1/4" Bar			
12	SG1261B-1	SG1261B-2	SG1261B-3
15	SG1561B-1	SG1561B-2	SG1561B-3
18	SG1861B-1	SG1861B-2	SG1861B-3
24	SG2461B-1	SG2461B-2	SG2461B-3
30	SG3061B-1	SG3061B-2	SG3061B-3
36	SG3661B-1	SG3661B-2	SG3661B-3
42	SG4261B-1	SG4261B-2	SG4261B-3
48	SG4861B-1	SG4861B-2	SG4861B-3



Option "1"
Fits to Pre-Formed Notch



Option "2"
Side Mount Tab



Option "3"
Top Mount Tab

Cone Grate Trashrack — Side Mount

Side Mount Cone Grates are designed to mount near the top of round manhole inlet or outlet structures to keep debris from entering the stormwater system. Side mount style allows for water flow under the grate if the top flow becomes restricted.

- Grates 72" and larger are made as a two-piece, bolt-together design
- Grates are easy to install but will require access to the side of the manhole for mounting brackets
- Plate and bar hybrid design is both clean and cost-effective
- 6" max. opening between vertical bars
- Made from 1/2" plate with 3/4" or 1" round bars depending on grate size
- Includes side mount brackets
- Anti-vortex plate can be added upon request
- Hinged and lockable access doors can be added upon request
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe ID (in)	Pipe OD (in)	Grate OD (in)	Bar Dia. (in)	Grate Height (in)	Wall Thickness (in)	Mounting Brackets
CGSM30	30	37	46	3/4	12	3 1/2	4
CGSM33	33	37 1/2	50	3/4	12	3 3/4	4
CGSM36	36	44	54 1/2	3/4	12	4	4
CGSM42	42	51	61	3/4	12	4 1/2	4
CGSM48	48	58	70	3/4	12	5	4
CGSM54	54	65	77	3/4	18	5 1/2	4
CGSM60	60	72	84	3/4	18	6	6
CGSM66	66	79	92	3/4	18	6 1/2	8
CGSM72	72	86	98	3/4	18	7	8
CGSM78	78	93	101	3/4	24	7 1/2	8
CGSM84	84	100	110	3/4	24	8	8
CGSM96	96	114	126	3/4	24	9	8
CGSM108	108	128	140 1/2	1	36	10	8
CGSM120	120	140	154	1	36	11	8



Side Mount with Brackets



Also available with Anti-Vortex Plate.



Fastener Detail

Cone Grate Trashrack — Top Mount Style

Top Mount Cone Grates are designed to mount on the top of round manhole inlet or outlet structures to keep debris from entering the stormwater system. Top mount cone grates are easy to install and allow for at grade manhole installations but can be used in a variety of applications.

- Grates 84" and larger are made as a two-piece, bolt-together design
- 6" max vertical between bars
- Plate and bar hybrid design is both clean and cost-effective
- Made from 1/2" plate with 3/4" or 1" round bars depending on grate size
- Anti-vortex plate can be added upon request
- Hinged and lockable access doors can be added upon request
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe ID (in)	Pipe OD (in)	Grate OD (in)	Bar Dia. (in)	Grate Height (in)	Wall Thickness (in)	Suggested Anchors
CG12TM	12	16	16	5/8	8	2	4
CG15TM	15	19.5	19	5/8	8	2 1/4	4
CG18TM	18	23	23	5/8	8	2 1/2	4
CG21TM	21	27	26	5/8	8	2 3/4	4
CG24TM	24	30	28	3/4	8	3	4
CG27TM	27	34	32	3/4	8	3 1/4	4
CG30TM	30	37	35	3/4	12	3 1/2	4
CG33TM	33	40	39	3/4	12	3 3/4	4
CG36TM	36	44	41	3/4	12	4	4
CG42TM	42	51	47	3/4	12	4 1/2	4
CG48TM	48	58	55	3/4	12	5	4
CG48TMD	48	58	55	3/4	12	5	4
CG54TM	54	65	59	3/4	12	5 1/2	4
CG60TM	60	72	69	1	18	6	8
CG60TMD	60	72	69	1	18	6	8
CG66TM	66	79	73	1	18	6 1/2	8
CG72TM	72	86	82	1	18	7	8
CG72TMD	72	86	82	1	18	7	8
CG78TM	78	93	86	1	24	7 1/2	8
CG84TM	84	100	95	1	24	8	8
CG96TM	96	114	108	1	24	9 3/4	8
CG108TM	108	128	122	1	36	10	8
CG120TM	120	140	134	1	36	11	8
Part Number	Wedge Anchors						
52010	1/2" x 3 3/4" Zinc						
52060	1/2" x 3 3/4" Stainless Steel						



Also available with Anti-Vortex Plate.

Raised Cone Grates

Raised Cone Grates are designed to mount on top of round manhole inlet or outlet structures to keep debris from entering the stormwater system. Raised grate design increases flow capacity.

- Grates 84" and larger are made as a two-piece, bolt-together design
- Plate and bar hybrid design is both clean and cost-effective
- Made from 3/8" plate with 3/4" or 1" round bars depending on grate size
- Integrated mounting flanges for securing grates
- Anti-vortex plate can be added upon request
- Top cone grate is removable for access to the manhole
- Hinged and lockable access doors can be added upon request
- Made from aluminum or stainless steel

Part Number	Pipe ID (in)	Pipe OD (in)	Grate OD (in)	Wall Thickness (in)	Max Opening (in)	Grate Height (in)	Suggested Anchors
RCG24	24	30	29	3	6 x 11	20	4
RCG27	27	34	33	3 1/4	6 x 12	20	4
RCG30	30	37	36	3 1/2	6 x 12	24	4
RCG33	33	37	36	3 3/4	6 x 11	24	4
RCG36	36	44	43	4	6 x 10	24	4
RCG42	42	51	50	4 1/2	6 x 12	24	4
RCG48	48	58	56	5	6 x 10	24	4
RCG54	54	65	61	5 1/2	6 x 10	24	4
RCG60	60	72	71	6	6 x 10	36	8
RCG66	66	79	78	6 1/2	6 x 10	36	8
RCG72	72	86	85	7	6 x 10	36	8
RCG78	78	93	92	7 1/2	6 x 11	48	8
RCG84	84	100	96.5	8	6 x 10	48	8
RCG96	96	114	113	9 3/4	6 x 10	48	8
RCG108	108	128	127	10	6 x 11	60	8
RCG120	120	140	139	11	6 x 10	60	8
Part Number	Wedge Anchors						
52010	1/2" x 3 3/4" Zinc						
52060	1/2" x 3 3/4" Stainless Steel						



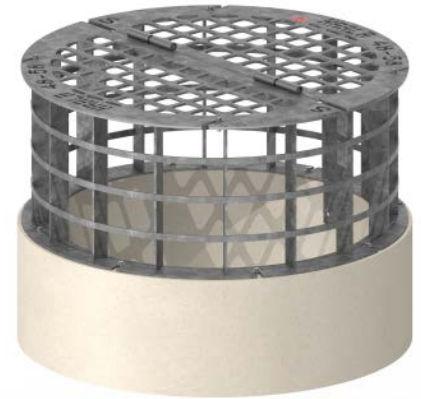
Also available with Anti-Vortex Plate.

Greta Grates

Greta Grates are designed to mount on top of round manhole inlet or outlet structures to keep debris from entering the stormwater system. Raised grate design increases flow capacity.

- Sizes 12" – 33" have a removable single top grate
- Sizes 36" – 96" have a hinged top grate
- The base structure for the 96" and larger are built in two pieces for easy installation, bolt-together design
- Plate design is both clean and cost-effective
- Made from 3/8" and 1/2" plate depending on grate size
- Integrated mounting flanges for securing grates
- Anti-vortex plate can be added upon request
- Top skimmer grate is hinged (on select sizes) and also removable for access to the manhole
- Separate lockable access doors can be added upon request
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe ID (in)	Grate OD (in)	Material Thickness (in)	Side Max Opening	Grate Height (in)	Opening Web (in)	Suggested Anchors
GG12	12	16	1/4	4 x 6	9	3.3 x 3.3 – 3/4	4
GG15	15	19	1/4	4 x 6	9	3.3 x 3.3 – 3/4	4
GG18	18	23	1/4	4 x 6	9	3.3 x 3.3 – 3/4	4
GG21	21	26	1/4	4 x 6	9	3.3 x 3.3 – 3/4	4
GG24	24	28	3/8	6 x 10	20	3.3 x 3.3 – 3/4	4
GG27	27	33	3/8	6 x 10	20	3.3 x 3.3 – 3/4	4
GG30	30	35	3/8	6 x 10	20	3.3 x 3.3 – 3/4	4
GG33	33	39	3/8	6 x 10	20	3.3 x 3.3 – 3/4	4
GG36	36	40	3/8	6 x 10	20	3.3 x 3.3 – 3/4	4
GG42	42	47	3/8	6 x 10	20	3.3 x 3.3 – 3/4	4
GG48	48	53	3/8	6 x 10	24	3.3 x 3.3 – 3/4	4
GG54	54	60	3/8	6 x 10	24	3.3 x 3.3 – 3/4	4
GG60	60	69	3/8	6 x 10	24	4 x 4 – 1	8
GG66	66	73	1/2	6 x 10	24	4 x 4 – 1	8
GG72	72	82	1/2	6 x 10	24	4 x 4 – 1	8
GG78	78	86	1/2	6 x 10	24	4 x 4 – 1	8
GG84	84	95	1/2	6 x 10	24	4 x 4 – 1	8
GG96	96	108	1/2	6 x 10	24	4 x 4 – 1	8
GG108	108	122	1/2	6 x 10	24	4 x 4 – 1	8
GG120	120	134	1/2	6 x 10	24	4 x 4 – 1	8
Part Number	Wedge Anchors						
52010	1/2" x 3 3/4" Zinc						
52060	1/2" x 3 3/4" Stainless Steel						



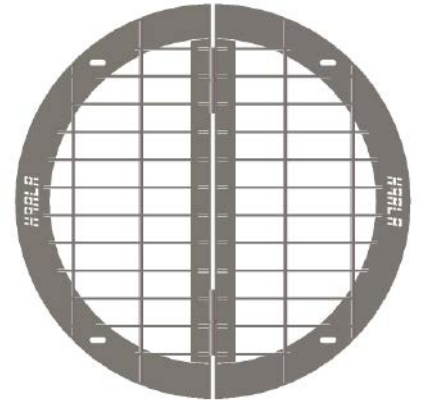
Also available with Anti-Vortex Plate.

Pond Skimmer Grates — Flat Iron Style

Pond skimmers are made from 3/8" x 2" flats at 4" C/C and have a fabricated 3 1/2" x 3/8" angle iron outer frame. Bearing bars run perpendicular to the hinge joint. All grates have cross bars. Hinges are mounted so that the grate can be disassembled in the field.

- Integrated mounting flanges for securing grates
- Anti-vortex plate can be added upon request
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe Size ID (in)	Grate Size OD (in)	Grate Height (in)	Plate Size (in)
PS27SR	27	33	3 1/2	3/8
PS48SR	48	57	3 1/2	3/8
PS60SR	60	69	3 1/2	3/8
PS72SR	72	81	3 1/2	3/8
PS84SR	84	93	3 1/2	3/8
PS96SR	96	107	3 1/2	3/8
PS108SR	108	120	3 1/2	3/8

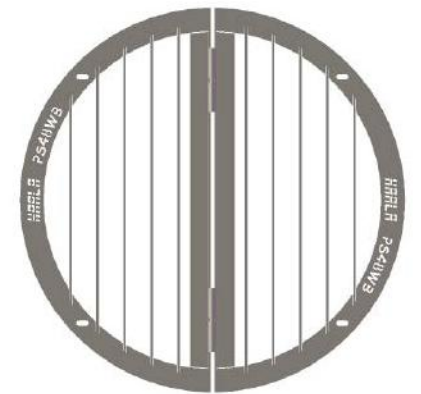


Pond Skimmer Grates — Woodbury Style

Pond skimmers are made from 3/8" x 2" flats at 4" C/C and have a fabricated 2 1/2" x 3/8" angle iron outer frame. Bearing bars run parallel to the hinge joint. Grates 84" and larger have cross bars. Hinges are mounted so that the grate can be disassembled in the field.

- Integrated mounting flanges for securing grates
- Anti-vortex plate can be added upon request
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe Size ID (in)	Grate Size OD (in)	Grate Height (in)	Plate Size (in)	Cross Bar
PS48WB	48	57	2 1/2	3/8	No
PS60WB	60	69	2 1/2	3/8	No
PS72WB	72	81	2 1/2	3/8	No
PS84WB	84	93	2 1/2	3/8	Yes
PS96WB	96	107	2 1/2	3/8	Yes
PS120WB	120	132	2 1/2	3/8	Yes



Pond Skimmer Grates for Round Manholes

Pond Skimmers are designed to mount on top of round manhole inlet or outlet structures to keep debris from entering the stormwater system. Works well where some pedestrian traffic is expected and can be secured to limit access.

- Standard skimmers 48" and smaller do not have hinges unless specified
- Made from plated unless specified rod style
- Sizes 60" and larger have supports on underside
- Grates can be made to your specifications
- Hinged and locked access doors can be added
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Pipe ID (in)	Grate OD (in)	Plate Size (in)	Opening Web (in)	Open (sq. ft.)	Equivalent Perimeter (in)	Suggested Anchors
Standard							
PS24-30S	24	30	3/8	3.3 x 3.3 – 3/4	1.63	165.81	4
PS27-33S	27	33	3/8	3.3 x 3.3 – 3/4	2.17	151.08	4
PS30-37S	30	36	3/8	3.3 x 3.3 – 3/4	2.61	204.90	4
PS36-44S	36	43	3/8	3.3 x 3.3 – 3/4	4.10	235.72	4
PS36-44S-2	36	43	3/8	2 x 2 – 3/4	3.30	228.34	4
PS42-51S	42	50	3/8	3.3 x 3.3 – 3/4	5.06	265.42	4
PS48-58S	48	57	3/8	3.3 x 3.3 – 3/4	7.01	300.84	4
PS48-58SWH	48	57	3/8	3.3 x 3.3 – 3/4	7.01	300.84	4
PS48-58SWOH	48	57	3/8	3.3 x 3.3 – 3/4	6.16	260.43	4
PS48-58S-2	48	57	3/8	2 x 2 – 3/4	5.48	285.44	4
PS54-65S	54	62	3/8	3.3 x 3.3 – 3/4	9.52	385.42	4
PS60-72S	60	68	3/8	4 x 4 – 1	11.61	427.80	8
Heavy							
PS24-30H	24	30	1/2	3.3 x 3.3 – 3/4	1.63	165.81	4
PS27-33H	27	33	1/2	3.3 x 3.3 – 3/4	2.17	151.08	4
PS30-37H	30	36	1/2	3.3 x 3.3 – 3/4	2.76	204.90	4
PS36-44H	36	44	1/2	3.3 x 3.3 – 3/4	4.10	242.24	4
PS48-58H	48	57	1/2	3.3 x 3.3 – 3/4	7.61	341.12	4
PS48-58H-2	48	57	1/2	2 x 2 – 3/4	5.74	298.20	4
PS54-65H	54	62	1/2	3.3 x 3.3 – 3/4	9.52	385.42	4
PS60-72H	60	68	1/2	4 x 4 – 1	11.61	427.80	8
PS60-72H-2	60	68	1/2	2 x 2 – 3/4	9.06	387.36	8
PS66-79H	66	75	1/2	4 x 4 – 1	14.20	473.06	8
PS72-86H	72	81	1/2	4 x 4 – 1	17.01	571.18	8
PS78-93H	78	87	1/2	4 x 4 – 1	19.92	600.66	8
PS84-100H	84	94	1/2	4 x 4 – 1	23.36	653.60	8
PS96-114H	96	107	1/2	4 x 4 – 1	30.45	685.82	8
PS108-128H	108	120	1/2	4 x 4 – 1	35.38	838.86	8
PS120-140H	120	134	1/2	4 x 4 – 1	41.57	949.04	12
Part Number Wedge Anchors							
52010	1/2" x 3 3/4" Zinc						
52060	1/2" x 3 3/4" Stainless Steel						



Side Flow Grates for Manholes

Side Flow Grates are designed to cover inlet orifices and prevent medium sized debris from passing through. All grates are made from plate for a clean and smooth contact surface. Also can be made with a flat top flange for mounting at the top edge of manholes when there's a need to cover a weir notch or cutout.

- Plate design for a clean appearance
- Standard 3" wide openings
- Perpendicular offset design for increased filter area
- Mounting flanges on 4 sides
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Manhole OD (in)	Grate Opening (in)	Depth (in)	Plate Size (in)
SF1036958	58	10 x 36	9	1/4
SF1524958	58	15 x 24	9	1/4
SF1036958NTF	58	10 x 36	9	1/4
SF1849958	58	18 x 49	9	1/4
SF1849972	72	18 x 49	9	1/4
SF1048986	86	10 x 48	9	1/4
SF1849986	86	18 x 49	9	1/4
SF6429114	114	6 x 42	9	1/4

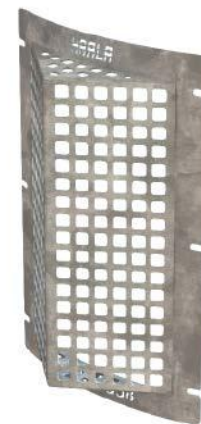


Triangle Grates for Manholes

Triangle Grates are designed to cover inlet orifices and prevent small debris from passing through. The raised and angled design helps to deflect debris and increases filter area. All grates are made from plate for a clean and smooth contact surface instead of a bi-directional bar design or expanded metal.

- Plate design for a clean appearance
- Standard 1" openings (other sizes can be made)
- Angled front plate to maximize debris deflection
- Mounting flanges on 2–4 sides depending on size
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Manhole OD (in)	Grate Opening (in)	Depth (in)	Opening Web (in)	Plate Size (in)
TR06200558-3	58	6 x 20	5	3	3/16
TR1616544	44	16 x 16	5	1 – 1/2	3/16
TR1626558	58	16 x 26	5	1 – 1/2	3/16
TR1626572	72	16 x 26	5	1 – 1/2	3/16
TR1638558	58	16 x 38	5	1 – 1/2	3/16
TR18420558-3	58	18 x 42	5	3	3/16
TR18620558-3	58	18 x 62	5	3	3/16
TR3030558	58	30 x 30	5	1 – 1/2	3/16

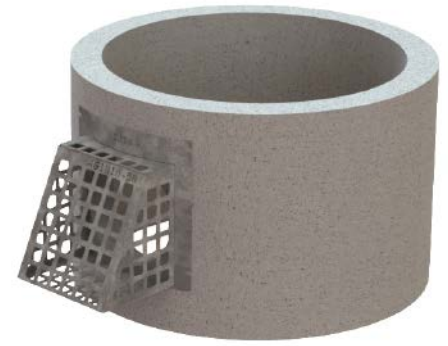


Angle Grates for Manholes

Angle Grates are designed to cover inlet orifices and prevent small to medium debris from passing through. The top angled design helps to minimize the amount of debris that settles on top after the water recedes. All grates are made from plate for a clean and smooth contact surface.

- Plate design for a clean appearance
- Standard 2" openings (other sizes can be made)
- Angled top/front plate to maximize debris deflection
- Mounting flanges on 3 sides allows grate to be mounted at floor-level inverts
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Manhole OD (in)	Grate Opening (in)	Depth (in)	Opening Web (in)	Plate Size (in)
AG0808-44-1	44	8 x 8	8	1 – 1/2	3/16
AG0808-58-1	58	8 x 8	8	1 – 1/2	3/16
AG0808-58	58	8 x 8	8	2 – 3/4	3/16
AG1212-44	44	12 x 12	12	2 – 3/4	3/16
AG1212-51	51	12 x 12	12	2 – 3/4	3/16
AG1212-58	58	12 x 12	12	2 – 3/4	3/16
AG1212-86	86	12 x 12	12	2 – 3/4	3/16
AG1515-58	58	15 x 15	12	2 – 3/4	3/16
AG1515-86	86	15 x 15	12	2 – 3/4	3/16
AG1818-58	58	18 x 18	12	2 – 3/4	3/16
AG1818-72	72	18 x 18	12	2 – 3/4	3/16
AG1818-86	86	18 x 18	12	2 – 3/4	3/16
AG2424-58	58	24 x 24	12	2 – 3/4	3/16
AG2424-72	72	24 x 24	12	2 – 3/4	3/16
AG2424-86	86	24 x 24	12	2 – 3/4	3/16
AG3030-72	72	30 x 30	12	2 – 3/4	1/4
AG3030-86	86	30 x 30	12	2 – 3/4	1/4
AG3612-86	86	36 x 12	12	2 – 3/4	3/16



Top Grates — Box

Flat Top Box Grates are designed to mount on top of box inlet or outlet structures to keep debris from entering the stormwater system. Works well where some pedestrian traffic is expected and can be secured to limit access. Hinges are mounted to one side of the concrete structure to allow the entire grate to open and gain full access to the structure.

- Clean and durable plate-style design
- Full access side hinge
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Box ID (ft)	Grate OD (in)	Opening Web (in)	Open (sq. ft.)	Equivalent Perimeter (in)
MC30X30	2 x 2	30 x 30	4 x 4 – 1	2.69	235.39
MC30X30H	2 x 2	30 x 30	4 x 4 – 1	2.69	235.39
MC42X42	3 x 3	42 x 42	4 x 4 – 1	5.15	342.79
MC56X44	4 x 3	56 x 44	4 x 4 – 1	7.36	428.49
MC56X56	4 x 4	56 x 56	4 x 4 – 7/8	10.4	505.95
MC56X56-2	4 x 4	56 x 56	2 x 2 – 3/4	8.36	485.92
MC68X68	5 x 5	68 x 68	4 x 4 – 1.1	15	618.63
MC68X68-2	5 x 5	68 x 68	2 x 2 – 3/4	12.72	599.76
MC80X80	6 x 6	80 x 80	4 x 4 – 3/4	22.62	873.72



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Pond Skimmer Grates for Box Inlets

Pond Skimmers are designed to mount on top of box inlet or outlet structures to keep debris from entering the stormwater system. Works well where some pedestrian traffic is expected and can be secured to limit access.

- Sizes 60" and larger have supports on underside
- Clean and durable plate-style design
- Center hinged access up through 96"
- Integrated mounting flanges for securing grates
- Grates can be made to your specifications
- Hinged and lockable access doors can be added upon request
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Box ID (ft)	Grate OD (in)	Plate Size (in)	Opening Web (in)	Open (sq. ft.)	Equivalent Perimeter (in)	Suggested Anchors
PS2X3S	2 x 3	32 x 44	3/8	4 x 4 – 3/4	4.10	311.87	4
PS2X3SH	2 x 3	33.5 x 44	3/8	3.3 x 3.3 – 3/4	4.10	311.87	4
PS2X6S	2 x 6	80 x 32	3/8	3.3 x 3.3 – 3/4	7.80	524.13	6
PS2X6H	2 x 6	80 x 32	1/2	4 x 4 – 1	7.54	500.21	6
PS3X3S	3 x 3	44 x 44	3/8	3.3 x 3.3 – 3/4	5.85	381.20	4
PS4X4H	4 x 4	57 x 57	1/2	3.3 x 3.3 – 3/4	10.18	499.04	6
PS4X4H-2	4 x 4	57 x 57	1/2	2 x 2 – 3/4	7.58	456.96	6
PS4X5H	4 x 5	57 x 68	1/2	4 x 4 – 1	13.16	606.25	6
PS4X6H	4 x 6	57 x 80	3/8	4 x 4 – 1	15.35	667.08	6
PS5X5H	5 x 5	68 x 68	1/2	4 x 4 – 1	15.14	666.16	6
PS6X6H	6 x 6	81 x 81	1/2	4 x 4 – 1	20.06	787.28	6
PS7X7H	7 x 7	95 x 95	1/2	4 x 4 – 1	29.31	912.02	6
PS8X4H	8 x 4	57 x 105	1/2	4 x 4 – 1	20.48	794.34	6

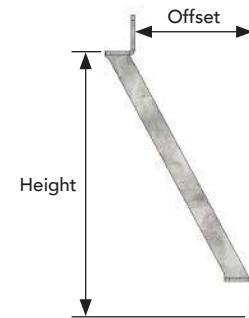
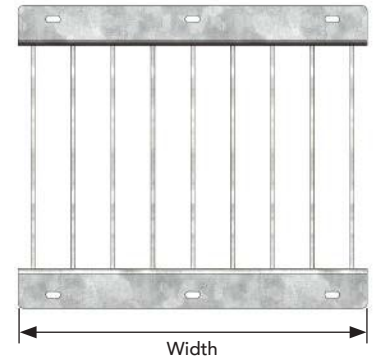


Beaver Buster Grates

Beaver Buster Grates are designed to be mounted on boxes with offset end faces to keep medium and large debris from entering the stormwater system while also limiting access.

- 3" x 4" x 3/8" formed mounting angles on each end
- 2" x 3/8" flat bars welded at 4" c/c
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Width (in)	Height (in)	Offset (in)	Plate Size (in)	Bar Spacing (in)
BB362412-1.5	35	23	12	3/8	1.5
BB362412	35	23	12	3/8	4
BB362417	35	23	17	3/8	4
BB362424	35	23	24	3/8	4
BB3624285	35	23	28.5	3/8	4
BB363615	35	35	15	3/8	4
BB423015	41	29	15	3/8	4
BB483612	47	35	12	3/8	4
BB483612-4.5	47	35	12	3/8	4.5
BB484824	47	47	24	3/8	4
BB484824-4.5	47	47	24	3/8	4.5
BB604827	59	47	27	3/8	4
BB606636	59	65	36	3/8	4



Raised Mount Grates for Box Inlets

Raised Box Grates are designed to mount on top of box inlet or outlet structures to keep debris from entering the stormwater system. Works well where some pedestrian traffic is expected and limits access. All grates are made from plate with round bar riser legs. Raised grate design increases flow capacity. Can be made to your specifications.

- Plate and bar hybrid design is both clean and cost effective
- Made from 3/8" plate and 3/4" round bars
- Integrated mounting flanges for securing grates
- Hinged and lockable access doors can be added upon request
- Standard size hatch (about 30" x 30") can be added for extra cost
- Galvanized steel construction
- Can be made from aluminum or stainless steel



Part Number	Box ID (ft)	Grate OD	Plate Size (in)	Bar Dia. (in)	Bar C/C (in)	Opening Web (in)	Grate Height (in)	# Pcs.
BCTM2X3	2 x 3	31" x 43"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM2X3AH	2 x 3	31" x 43"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM3X3	3 x 3	45" x 45"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM4X4	4 x 4	5' x 5'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM4.5X3.5	4.5 x 3.5	63" x 51"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM5X3	5 x 3	6' x 4'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM5X4	5 x 4	69" x 57"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM5X4AH	5 x 4	69" x 57"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM5X5	5 x 5	6' x 6'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM5X5AH	5 x 5	69" x 69"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM6X3	6 x 3	7' x 4'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM6X4	6 x 4	7' x 5'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM6X5	6 x 5	7' x 6'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM6X6	6 x 6	7' x 7'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM6X6AH	6 x 6	7' x 7'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM7X2	7 x 2	8' x 3'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM7X3	7 x 3	8' x 4'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM7X4	7 x 4	8' x 5'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM7X5	7 x 5	8' x 6'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM7X6	7 x 6	8' x 7'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM7X6AH	7 x 6	92" x 81.5"	3/8	3/4	6	5 x 5 - 1	12	1
BCTM7X7	7 x 7	8' x 8'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM8X4	8 x 4	9' x 5'	3/8	3/4	6	5 x 5 - 1	12	1

Raised Mount Grates for Box Inlets (continued)



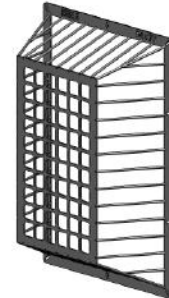
Part Number	Box ID (ft)	Grate OD	Plate Size (in)	Bar Dia. (in)	Bar C/C (in)	Opening Web (in)	Grate Height (in)	# Pcs.
BCTM8X5	8 x 5	9' x 6'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM8X6	8 x 6	9' x 7'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM8X7	8 x 7	9' x 8'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM8X8	8 x 8	9' x 9'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM9X5	9 x 5	10' x 6'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM10X10	10 x 10	11' x 11'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM10X4	10 x 4	11' x 5'	3/8	3/4	6	5 x 5 - 1	12	1
BCTM10X5	10 x 5	11' x 6'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM10X6	10 x 6	11' x 7'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM10X6AH	10 x 6	11' x 7'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM10X7	10 x 7	11' x 8'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM10X8	10 x 8	11' x 9'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM10X9	10 x 9	11' x 10'	3/8	3/4	6	5 x 5 - 1	12	2
BCTM12X4	12 x 4	13' x 5'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X5	12 x 5	13' x 6'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X6	12 x 6	13' x 7'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X7	12 x 7	13' x 8'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X8	12 x 8	13' x 9'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X9	12 x 9	13' x 10'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X10	12 x 10	13' x 11'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X11	12 x 11	13' x 12'	3/8	3/4	6	5 x 5 - 1	12	3
BCTM12X12	12 x 12	13' x 13'	3/8	3/4	6	5 x 5 - 1	12	3

Raised Side Grates for Box Inlets

Raised Side Grates are units designed to cover inlet orifices and prevent medium to large debris from passing through. All grates are made from plate with round bar riser legs. Works well to cover larger openings or multiple small openings.

- Plate and bar hybrid design is both clean and cost-effective
- Raised grate design increases flow capacity
- 3/8" plate with 5/8" round bars
- Typical opening size is 4"
- Mounting flanges on all 4 sides
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Grate OD (in)	Grate Opening (in)	Plate Size (in)	Bar Dia. (in)	Bar C/C (in)	Opening Web (in)	Grate Height (in)
MC42X72	42 x 72	36 x 66	3/8	5/8	4 3/4	4 x 4 - 3/4	18
MC54X36	54 x 36	48 x 30	3/8	5/8	4 3/4	4 x 4 - 3/4	18
MC54X42	54 x 42	48 x 36	3/8	5/8	4 3/4	4 x 4 - 3/4	18
MC54X54	54 x 54	48 x 48	3/8	5/8	4 3/4	4 x 4 - 3/4	18
MC54X60	54 x 60	48 x 54	3/8	5/8	4 3/4	4 x 4 - 3/4	18
MC54X72	54 x 72	48 x 66	3/8	5/8	4 3/4	4 x 4 - 3/4	18



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Grate for Box Inlets

Inlet Grates are units designed to cover inlet orifices and prevent large debris from passing through. All grates are made from plate with round bar riser legs.

- Plate and bar hybrid design is both clean and cost effective
- 1/4" plate with 5/8" round bars
- Typical openings in plate are 6" and bars are at 7" c/c
- Mounting flanges on all 4 sides
- Galvanized steel construction
- Can be made from aluminum or stainless steel



Part Number	Grate Opening (in)	OD x HT (in)	Plate Size (in)
IG121206	12 x 12	17 x 17 x 6	1/4
IG121806	12 x 18	17 x 23 x 6	1/4
IG122410	12 x 24	17 x 29 x 10	1/4
IG123010	12 x 30	17 x 35 x 10	1/4
IG123610	12 x 36	17 x 41 x 10	1/4
IG124810	12 x 48	17 x 53 x 10	1/4
IG126010	12 x 60	17 x 65 x 10	1/4
IG151506	15 x 15	20 x 20 x 6	1/4
IG151510	15 x 15	20 x 20 x 10	1/4
IG181804-6	18 x 18	23 x 23 x 4	1/4
IG181810	18 x 18	23 x 23 x 10	1/4
IG183012	18 x 30	23 x 36 x 12	1/4
IG183612	18 x 36	24 x 42 x 12	1/4
IG242406	24 x 24	30 x 30 x 6	1/4
IG242412	24 x 24	30 x 30 x 12	1/4
IG303006	30 x 30	36 x 36 x 6	1/4
IG303012	30 x 30	36 x 36 x 12	1/4
IG363606	36 x 36	42 x 42 x 6	1/4
IG363612	36 x 36	42 x 42 x 12	1/4

Angle Grates for Box Inlets

Angle Grates are designed to cover inlet orifices and prevent small to medium debris from passing through. The top-angled design helps to minimize the amount of debris that settles on top after the water recedes. All grates are made from plate for a clean and smooth contact surface.

- Plate design for a clean appearance
- Standard 2" openings (other sizes can be made)
- Angled top/front plate to maximize debris deflection
- Mounting flanges on 3 sides allows grate to be mounted at floor-level inverts
- Galvanized steel construction
- Can be made from aluminum or stainless steel



Part Number	Grate Opening (in)	W x H x D (in)	Opening Web (in)	Plate Size (in)
AG0606	6 x 6	10 x 8 x 6	2 1/2	3/16
AG0606-1	6 x 6 x 6 - 1	10 x 8 x 6	1	3/16
AG1212-075	12 x 12 x 12 - .75	19 x 15 x 12	3/4	3/16
AG1212	12 x 12	19 x 15 x 12	2 3/4	3/16
AG1212-1	12 x 12	19 x 15 x 12	1 1/2	3/16
AG1230	12 x 30	19 x 33 x 12	2 3/4	3/16
AG1248	12 x 48	19 x 51 x 12	2 3/4	3/16
AG1515	15 x 15	21 x 18 x 12	2 3/4	3/16
AG1818	18 x 18	25 x 21 x 12	2 3/4	3/16
AG2412	24 x 12	30 x 15 x 12	2 3/4	3/16
AG2412-1	24 x 12	30 x 15 x 12	1 1/2	3/16
AG2424	24 x 24	30 x 27 x 12	2 3/4	3/16
AG2436	24 x 36	30 x 40 x 12	2	3/16
AG3030	30 x 30	37 x 34 x 12	2 3/4	3/16
AG3036	30 x 36	37 x 39 x 12	2 3/4	3/16
AG3612	36 x 12	42 1/2 x 12	2	3/16
AG3618	36 x 18	42 1/2 x 24 x 12	2 3/4	3/16
AG3624	36 x 24	42 1/2 x 27 x 12	2 3/4	3/16
AG3636	36 x 36	42 1/2 x 39 x 12	2 3/4	3/16
AG4818	48 x 18	54 1/2 x 21 x 12	2 3/4	3/16
AG4824	48 x 24	54 1/2 x 27 x 12	2 3/4	3/16
AG4836	48 x 36	54 1/2 x 39 x 12	2 3/4	1/4

Angle Flat Wall Grates for Box Inlets

Part Number	Grate Opening (in)	Depth (in)	Opening Web (in)	Plate Size (in)
TR10135	10 x 13	5	1 1/2	3/16
TR10265	10 x 26	5	1 1/2	3/16
TR24265	24 x 26	5	1 1/2	3/16
TR24365	24 x 36	5	1 1/2	3/16



Raised Plate Grates for Box Inlets

Raised Plate Grates are designed to cover inlet orifices and prevent small to medium debris from passing through. All grates are made from formed plate and feature integrated mounting flanges.

- Plate design for a clean appearance
- Standard 1.5" openings on front face and 3.5" on top and bottom
- Mounting flanges on 2 sides allows grate to be mounted at floor-level inverts
- Galvanized steel construction
- Can be made from aluminum or stainless steel

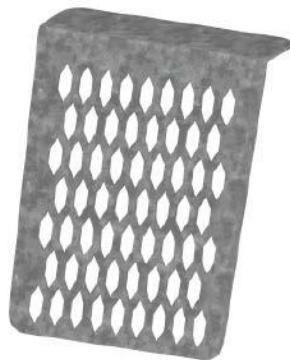
Part Number	Grate Opening (in)	OD x HT (in)	Plate Size (in)
RPG88	8 x 8	8 x 12 x 4	3/16
RPG1212	12 x 12	12 x 16 x 4	1/4
RPG1818	18 x 18	18 x 22 x 4	1/4



Rodent Shields

- Galvanized steel construction
- The rodent shield is an alternative for MNDOT Std. Plate No. 3131C

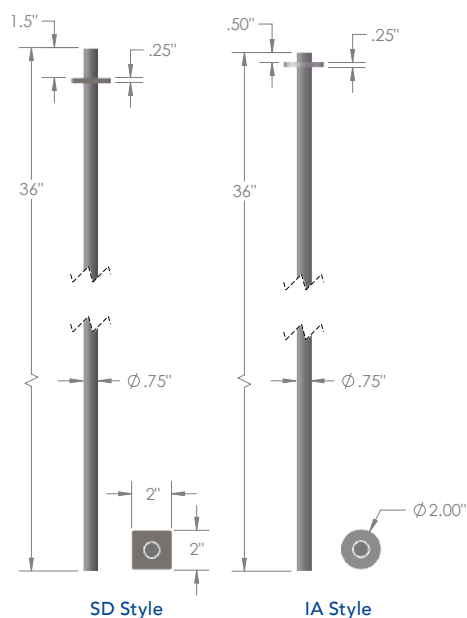
Part Number	Description	Size (in)
RS3131CH-4	Rodent Shield	4
RS3131CH-6	Rodent Shield	6
RS3131CH-8	Rodent Shield	8
RS3131CH-8-EU	Rodent Shield	8



Retaining Rods

- Galvanized steel construction
- For IA DOT DR-306 precast concrete headwall for subdrain outlets

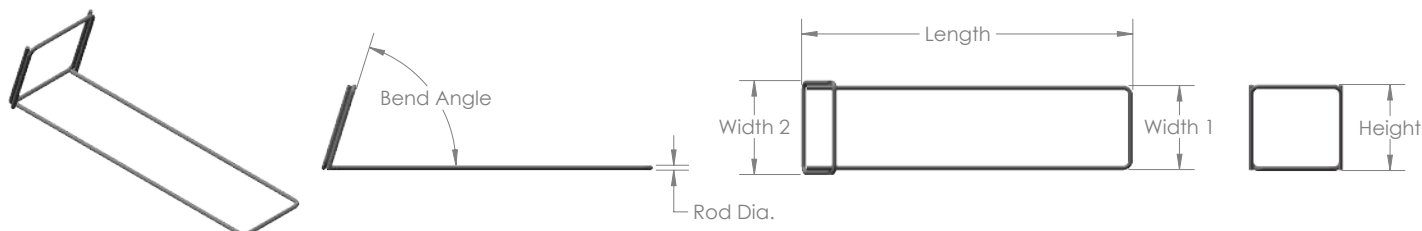
Part Number	Description	Size (in)
RR34X36SD	Retaining Rod	3/4 x 36
RR34X36IA	Retaining Rod	3/4 x 36



Welded Drain Cage

- For IA DOT DR-306 precast concrete headwall for subdrain outlets

Part Number	Length (in)	Width 1 (in)	Width 2 (in)	Height (in)	Bend Angle	Rod Dia (in)
DR306-4	33.5	9.5	8.5	8.68	72.6	0.5
DR306-6	35.58	10.5	11.5	10.61	72.6	0.5
DR-306-4-6	35.58	10.5	11.5	10.61	72.6	0.5



GUARDS



Our Made in the USA steel trash guards ensure reliable protection and efficient stormwater flow. Designed for use in drainage systems and stormwater management, these durable products prevent debris buildup, minimize clogging, and safeguard your infrastructure. Whether for culverts, outfalls, or storm drains, our trash guards combine robust construction with easy installation to meet the demands of various applications.



See our entire offering of guards.



CMP Steel Pipe & Plate Style Trash Guards

Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system. Guards for 12" – 18" are also available as a plate style. Please note form company when ordering.

- Steel flared end section is NOT included with the guard.
- Solid bar design for durability and long life
- Typical bar c/c is 6" one direction
- Hinged mounting tabs at 3 points
- Galvanized steel construction
- Can be made from aluminum or stainless steel
- Can be made to your specifications

Part Number	Size (in)	Rod Diameter (in)	Maximum Spacing (in)	Form/Company
TGCMP12S-CT	12	1/2	6 x 6	Contech
TGCMP12S-MC	12	1/2	6 x 6	Metal Culverts
TGCMP15S-CT	15	1/2	6 x 6	Contech
TGCMP15S-MC	15	1/2	6 x 6	Metal Culverts
TGCMP18S-CT	18	1/2	6 x 6	Contech
TGCMP18S-MC	18	1/2	6 x 6	Metal Culverts
TGCMP21-CT	21	5/8	6 x 6	Contech
TGCMP21-MC	21	5/8	6 x 6	Metal Culverts
TGCMP24-CT	24	5/8	6 x 6	Contech
TGCMP24-MC	24	5/8	6 x 6	Metal Culverts
TGCMP27-CT	27	5/8	6 x 6	Contech
TGCMP27-MC	27	5/8	6 x 6	Metal Culverts
TGCMP30-CT	30	5/8	6 x 6	Contech
TGCMP30-MC	30	5/8	6 x 6	Metal Culverts
TGCMP35X24-CT	35 x 24	5/8	6 x 12	Contech
TGCMP33-CT	33	5/8	6 x 6	Contech
TGCMP33-MC	33	5/8	6 x 6	Metal Culverts
TGCMP36-CT	36	3/4	6 x 12	Contech
TGCMP36-MC	36	3/4	6 x 12	Metal Culverts
TGCMP42-CT	42	3/4	6 x 12	Contech
TGCMP42-JJ	42	3/4	6 x 12	J&J Drainage
TGCMP48-CT	48	3/4	6 x 12	Contech
TGCMP48-JJ	48	3/4	6 x 12	J&J Drainage
TGCMP57X38-CT	57 x 38	3/4	6 x 12	Contech
TGCMP54-JJ	54	3/4	6 x 12	J&J Drainage
TGCMP71X47-CT	71 x 47	1 1/4	6 x 12	Contech



Plate Style Trash Guard Option

Plate style guard design is more durable and allows for quick and easy one-man install. A cordless drill and vice-grip is all that is needed for pre-install or on the job site install. Grates also have size marking for easy pipe-to-grate coordination.

Part Number	Size (in)	Plate (in)	Opening (in)	Web (in)
TGCMP12-P	12	1/4	4 x 6	3/4
TGCMP15-P	15	1/4	5 x 7	3/4
TGCMP18-P	18	1/4	6 x 8	1



Bullnose Trash Guard

Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system. The bullnose style guard increases the filtered flow capacity by extending beyond the concrete apron.

- Solid bar design for durability and long life
- Typical bar c/c is 6" one direction
- Hinged mounting tabs at 3 points
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Size (in)	Bar Diameter (in)
TG12BN	12	5/8
TG15BN	15	5/8
TG18BN	18	5/8
TG21BN	21	3/4
TG24BN	24	3/4
TG29BN-CCP	29	3/4
TG30BN	30	3/4
TG36BN	36	3/4
TG36BN-CCP	36	3/4
TG42BN-CCP	42	3/4
TG48BN	48	3/4
TG51BN	51	3/4
TG54BN	54	1
TG60BN	60	1
TG66BN	66	1
TG72BN	72	1
TG84BN	84	1



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Plate Style Trash Guard

Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system.

- Plate design for durability and long life
- Typical opening width is 5" one direction
- Hinged mounting tabs at 3 points
- Galvanized steel construction
- Can be made from aluminum or stainless steel



Part Number	Plate Size (in)	Form/Company
TG12S-P	1/4	Coumat, Forhaw, Forsha, Foreli, Hancock, Wieste
TG12H-P	3/8	Forhaw, Forsha
TG15S-P	1/4	Coumat, Forsha, Hancock
TG15H-P	3/8	Forhaw, Forsha
TG18S-P	1/4	Forhaw, Forsha, Hancock
TG18H-P	3/8	Forsha



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Round Pipe Trash Guard — Standard Rod Style

Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system.

- Solid bar design for durability and long life
- Typical bar c/c is 6" one direction
- Hinged mounting tabs at 3 points
- Galvanized steel construction
- Can be made from aluminum or stainless steel
- Standard and Heavy Styles



Part Number	Size (in)	Bar Diameter (in)	Form/Company
TG12S-R	12	5/8	Congre, Hancock, Forterra, Lowcon
TG12S-RCCP	12	5/8	Congre, Conrom, County, Forterra, Oldtop, Warwin
TG12NE	12	5/8	Nebraska Style
TG15S-R	15	5/8	Congre, County, Lowcon,
TG15S-RCCP	15	5/8	Conrom, County, Hancock, Oldtop
TG18S-R	18	5/8	Congre, Essbro, Lowcon
TG18S-RCCP	18	5/8	Conrom, Coumat, Forterra, Hancock
TG21SU-R	21	5/8	Conrom, County Forterra, Hancock
TG24SU-R	24	5/8	Cempip, Congre, Conrom, Forterra, Hancock
TG24NE	24	3/4	Nebraska
TG27SU-R	27	3/4	Congre, Conrom, County, Forterra, Hancock
TG30SU-R	30	3/4	Congre, Conrom, County, Forterra, Hancock
TG30NE	30	3/4	Nebraska
TG33S-RC	33	3/4	Forsta
TG33S-CCP	33	3/4	Hancock
TG36S-CCP	36	3/4	Conrom, Forterra
TG36S-SHAK	36	3/4	Forsha
TG36SU-R	36	3/4	Cempip, Conrom, Hancock, Forterra, Lowcon
TG42S-CS	42	3/4	Conrom
TG42SU-R	42	3/4	Conrom, County, Forterra, Hancock, Lowcon
TG48S-RC	48	3/4	Forsta
TG48SU-R	48	3/4	Cempip, Forterra, Hancock, Lowcon, Oldtop, Wiepor
TG42NE	42	1	Nebraska
TG48NE	48	1	Nebraska
TG54NE	54	1	Nebraska
TG54S-CS	54	1	Conrom
TG54SU-R	54	1	Conrom, Forterra, Hancock, Lowcon
TG54S-RC	54	1	Forsta
TG54S-AMEGRE	54	1	Cougre
TG60S-RC	60	1	Forsta
TG60SU-R	60	1	Conrom, County, Forterra, Hancock, Scuind
TG66SU-R	66	1	County, Forterra, Hancock
TG72SU-R	72	1	Congre, Conrom, County, Forterra
TG78S-R	78	1	Forsta, Hanhan
TG84S-R	84	1	Conrom, Cougre, Forelk, Hanhan, Welbro
TG84S-CCP	84	1	Couhol
TG90S	90	1	Forterra

Installation Kits	
Part Number	Kit Used For
TGBKA-GD	TG 12" – 21" Round
	22" – 29" Span Arch
TGBKA-GD24	TG 24" Round (4.5" Bolts)
TGBKA-GD5.5	TG 24" Round (5.5" Bolts)
TGBKB-GD	TG 27" – 42" Round
	36" – 51" Span Arch
TGBKC-GD	TG 48" – 96" Round
	59" – 102" Span Arch

Kits Include: All kits are made with domestic parts only. Kits come with bolts, washers and nuts. One kit needed per trash guard.

Round Pipe Trash Guard — Heavy Rod Style

Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system.

- Solid bar design for durability and long life
- Typical bar c/c is 6" one direction
- Hinged mounting tabs at 3 points
- Galvanized steel construction
- Can be made from aluminum or stainless steel
- Standard and Heavy Styles

Part Number	Size (in)	Bar Diameter (in)	Form/Company
TG12H-R	12	3/4	Congre, Cormai, Forsta
TG12H-RCCP	12	3/4	Forterra
TG15H-R	15	3/4	Forsta
TG15H-RCCP	15	3/4	Couiow, Forterra
TG18H-R	18	3/4	Forsta
TG18H-RCCP	18	3/4	Cempip, Couiow, Forterra, Hanlak
TG21HU-R	21	3/4	Coumat, Essbro, Forterra
TG21HU-RCM	21	3/4	Courob
TG24HU-R	24	3/4	Congre, County, Forterra, Hanlak
TG27HU-R	27	1	Coumat, Forterra
TG30HU-R	30	1	Conrom, County, Forterra, Hanlak
TG33H-CCP	33	1	Coumat, Forsha, Forsta
TG33H-RC	33	1	Forsta
TG36H-CCP	36	1	Forelk, Forsha
TG36H-SHAK	36	1	Coumat, Forsha
TG36HU-R	36	1	Conrom, County, Forterra, Hancock
TG42HU-R	42	1	County, Forterra
TG48H-RC	48	1	Forsta
TG48HU-R	48	1	Ameval, Coumat, Forterra, Hancock
TG54H-RC	54	1 1/4	Forsta
TG54HU-R	54	1 1/4	County, Forterra, Hanlak
TG60H-RC	60	1 1/4	Forsta
TG60HU-R	60	1 1/4	County, Forterra, Hancock
TG66HU-R	66	1 1/4	Couiow, Forterra
TG72HU-R	72	1 1/4	Conrom, Coumat, Forterra, Hancock
TG78HU-R	78	1 1/4	Coumat, Formar, Hanlak
TG84H	84	1 1/4	Formar
TG90H	90	1 1/4	Formar



Plate No. 1-28

Standard details flared end section and trashguard.

Installation Kits	
Part Number	Kit Used For
TGBKA-GD	TG 12" – 21" Round
	22" – 29" Span Arch
TGBKA-GD24	TG 24" Round (4.5" Bolts)
TGBKA-GD5.5	TG 24" Round (5.5" Bolts)
TGBKB-GD	TG 27" – 42" Round
	36" – 51" Span Arch
TGBKC-GD	TG 48" – 96" Round
	59" – 102" Span Arch

Kits Include: All kits are made with domestic parts only. Kits come with bolts, washers and nuts. One kit needed per trash guard.

Span/Arch Aprons Trash Guards

Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system.

- Solid bar design for durability and long life
- Typical bar c/c is 6" one direction
- Hinged mounting tabs at 3 points
- Galvanized steel construction
- Can be made from aluminum or stainless steel
- Standard and Heavy Styles
- Due to variations in forms and span design, prices for arch apron guards may vary. Please send detail specs when ordering Span Apron Guards.



Part Number	Size (in)	Bar Diameter (in)	Form/Company
Standard			
TG22SPS-P	22	1/4 – Plate Style	Coumat, Forelk, Forhel
TG22SPS-R	22	5/8	Coumat, Forterra
TG29SPS-CCP	29	5/8	Coumat, Forterra, Hancock
TG29SPS-RCC	29	5/8	Forsta
TG36SPS-RC	36	3/4	Forsta
TG36SPS-CCP	36	3/4	Forterra
TG44SPS-CCP	44	3/4	Forterra
TG44SPS-RC	44	3/4	Forsta
TG51SPS-RC	51	3/4	Cougre, Forsta
TG51SPS-R	51	3/4	Hancock, Forterra
TG59SPS-RC	59	3/4	Forsta
TG59SPS-R	59	3/4	Coumat, Forterra, Hanhan
TG65SPS-R	65	1	Hancock
TG73SPS-CCP	73	1	Coumat, Forelk, Hancan
TG73SPS-RCC	73	1	Forsta
TG88SPS	88	1	Formen
TG102SPS-CCP	102	1	Forelk
Heavy			
TG22SPH-RC	22	3/4	Forsta
TG22SPH	22	3/4	Forterra, Hancock
TG22SPH-P	22	3/8 – Plate Style	Forelk
TG29SPH-CCP	29	3/4	Coumat, Forterra
TG29SPH-RCC	29	3/4	Forsta
TG29SPH-SF	29	3/4	Coumat
TG36SPH-RC	36	1	Forsta
TG36SPH-CCP	36	1	County, Forterra, Hanlak
TG44SPH-CCP	44	1	Forterra, Hancock
TG44SPH-RCC	44	1	Forsta
TG51SPH-CCP	51	1	Forterra, Hancock
TG51SPH-RC	51	1	Forsta
TG59SPH-CCP	59	1	Coumat, Forterra
TG59SPH-HCK	59	1 1/4	Coumat
TG59SPH-RC	59	1	Forsta
TG65SPH-R	65	1 1/4	Formar
TG73SPH-CCP	73	1 1/4	Formar, Hancock
TG73SPH-RCC	73	1 1/4	Forsta
TG88SPH	88	1 1/4	Formar, Hanhan
TG102SPH	102	1 1/4	Forelk, Formar

Installation Kits	
Part Number	Kit Used For
TGBKA-GD	TG 12" – 21" Round
	22" – 29" Span Arch
TGBKA-GD24	TG 24" Round (4.5" Bolts)
TGBKA-GD5.5	TG 24" Round (5.5" Bolts)
TGBKB-GD	TG 27" – 42" Round
	36" – 51" Span Arch
TGBKC-GD	TG 48" – 96" Round
	59" – 102" Span Arch

Kits Include: All kits are made with domestic parts only. Kits come with bolts, washers and nuts. One kit needed per trash guard.

Elliptical Trash Guards

Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system.

- Solid bar design for durability and long life
- Typical bar c/c is 6" one direction
- Hinged mounting tabs at 3 points
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Size (in)	Bar Diameter (in)	Form/Company
TG14X23AMGB	14 x 23	3/4	Congre, Coumad
TG19X30AMGB	19 x 30	3/4	Congre, Conrom, Scuind
TG24X38AMGB	24 x 38	3/4	Congre, Conrom, Lowcon
TG29X45AMGB	29 x 45	3/4	Congre, Conrom
TG34X53AMGB	34 x 53	1	Congre, Conrom
TG38X60AMGB	38 x 60	1	Congre, Conrom
TG43X68AMGB	43 x 68	1	Coumad, Conrom
TG48X76AMGB	48 x 76	1	Coumad, Conrom
TG53X83CMMP	53 x 83	1	Coumad
TG90X113E	90 x 113	1	Coumat



Installation Kits	
Part Number	Kit Used For
TGBKA-GD	TG 12" – 21" Round
	22" – 29" Span Arch
TGBKA-GD24	TG 24" Round (4.5" Bolts)
TGBKA-GD5.5	TG 24" Round (5.5" Bolts)
TGBKB-GD	TG 27" – 42" Round
	36" – 51" Span Arch
TGBKC-GD	TG 48" – 96" Round
	59" – 102" Span Arch

Kits Include: All kits are made with domestic parts only. Kits come with bolts, washers and nuts. One kit needed per trash guard.



Ask about our Made in the USA capabilities. We can custom-manufacture to your specifications using domestic materials.

Illinois Trash Guards

Illinois Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system. These guards are designed around IL standard 542311.

- Flat Iron
- Includes top hardware kit and bottom cross pipe
- Galvanized steel construction
- Naperville Guards are designed with 8" x 3" openings. Originally built for the city of Naperville, IL.
- Can be made from aluminum or stainless steel

Part Number	Size (in)
Standard Illinois Style	
TG12IL-F	12
TG15IL-F	15
TG18IL-F	18
TG21IL-F	21
TG24IL-F	24
TG27IL-F	27
TG30IL-F	30
TG36IL-F	36
TG42IL-F	42
TG48IL-F	48
TG54IL-F	54
TG60IL-F	60
TG66IL-F	66
TG72IL-F	72
Naperville Style	
TG12IL-F-83	12
TG15IL-F-83	15
TG18IL-F-83	18
TG21IL-F-83	21
TG24IL-F-83	24
TG27IL-F-83	27
TG30IL-F-83	30
TG36IL-F-83	36
TG42IL-F-83	42
TG48IL-F-83	48
TG54IL-F-83	54
TG60IL-F-83	60
TG72IL-F-83	72



Standard Illinois Style



Naperville Style

Installation Kits	
Qty	Part
1	1" x 6 1/2" Bolt
1	1" USS Washer
1	4" x 4" x 1/4" Washer
1	1" Hex Nut

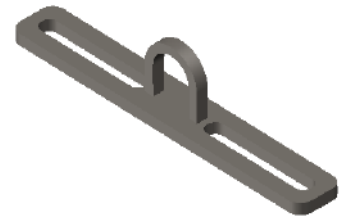
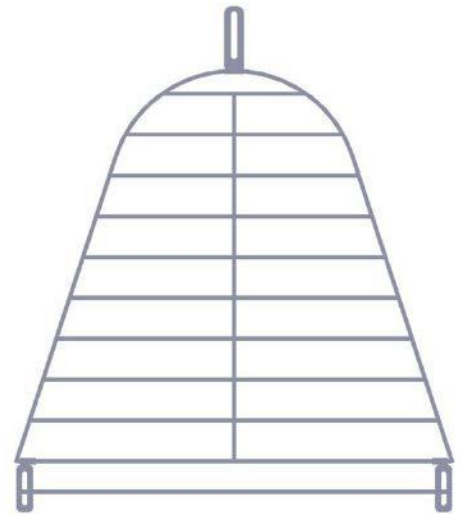
Note: Galvanized Fastener Pkg. Included with each Trash Guard.

Del DOT Trash Guards

Delaware Style Trash Guards are designed to cover the flared end section of an inlet or outlet pipe and prevent large debris from passing through while also restricting access to the pipe system. DEL DOT style is fastened and hinged at the bottom and has a padlock hasp on the top.

- Solid bar design for durability and long life
- Typical bar c/c is 6" one direction
- Bottom hinged mounting tabs and top lock hasp
- Galvanized steel construction
- Can be made from aluminum or stainless steel

Part Number	Size (in)	Bar Diameter (in)
TGHASP	All	N/A
TG12DEL	12	5/8
TG15DEL	15	5/8
TG18DEL	18	5/8
TG21DEL	21	5/8
TG24DEL	24	5/8
TG27DEL	27	5/8
TG30DEL	30	5/8
TG36DEL	36	3/4
TG42DEL	42	3/4
TG48DEL	48	3/4
TG54DEL	54	3/4
TG60DEL	60	3/4
Span / Arch		
TG14X23DEL	14 x 23	5/8
TG19X30DEL	19 x 30	5/8
TG22X34DEL	22 x 34	5/8
TG24X38DEL	24 x 38	5/8
TG29X45DEL	29 x 45	3/4
TG34X53DEL	34 x 53	3/4
TG43X68DEL	43 x 68	1



Top Hasp included with Trash Guards.
Part Number: TGHASP

Del DOT Outlet Screen with Open Bottom

These are Delaware Style pipe guards with an outlet screen open bottom design.

- Galvanized steel construction
- Can be made from aluminum or stainless steel

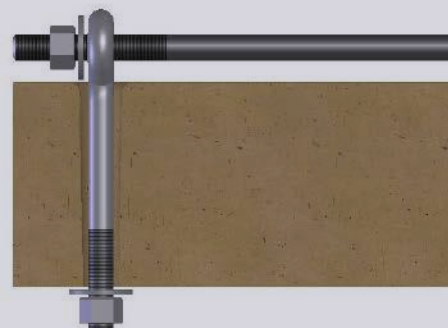
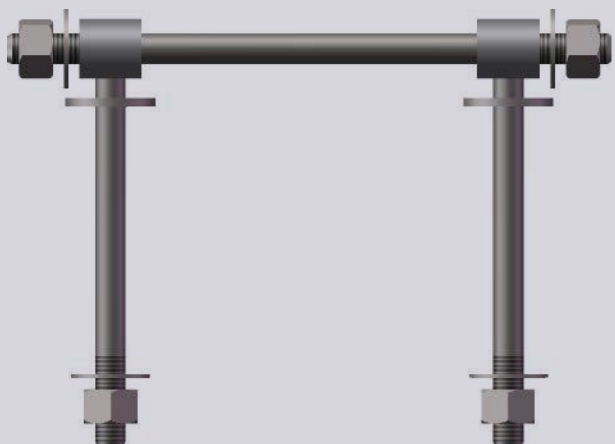
Part Number	Pipe ID (in)	Grate OD (in)
OSOB12	12	16
OSOB15	15	19 1/2
OSOB18	18	23
OSOB24	24	30
OSOB30	30	37
OSOB36	36	44
OSOB42	42	51



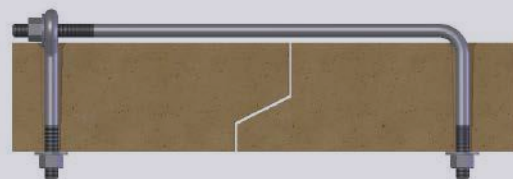
PIPE TIES/TIE RODS



Designed with durability and precision, these essential components are crafted to meet the highest standards for connecting precast concrete pipes and inlets in construction projects. Our selection ensures secure and efficient assembly, supporting structural integrity for a variety of applications. Proudly manufactured in our Sleepy Eye, MN, factory, these products reflect quality craftsmanship and reliability you can trust on every job site.



See our entire offering of pipe ties and tie rods.

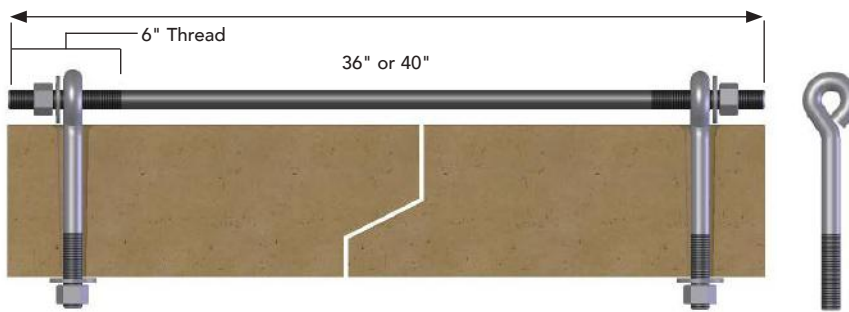


Double Eye Pipe Ties — Iowa

These Iowa DOT-approved pipe ties are assemblies with (2) formed eye bolts and a straight top rod that tie concrete pipe and box joints together.

- Extra thread for increased adjustment
- All parts are hot dip galvanized to ASTM F2329
- Includes (4) hex nuts ASTM A563 and USS washers
- Pipe ties are designed for holding pipe or box sections together, not for pulling sections tight
- All material is melted and manufactured in the USA. Certifications available upon request.
- Also known as tie rods and joint restraints
- Extra long pipe ties to use with Energy Dissipators are available. Call for quote.

Part Number	Rod Diameter (in)	Height (in)	Length (in)	Qty/Box
Pipe Size 12" – 27"				
IA5845G	5/8	4 1/2	36	300
IA5855G	5/8	5 1/2	36	300
IA5865G	5/8	6 1/2	36	300
IA5875G	5/8	7 1/2	36	300
Pipe Size 30" – 66"				
IA3445G	3/4	4 1/2	36	240
IA3455G	3/4	5 1/2	36	240
IA3460G	3/4	6	36	240
IA3465G	3/4	6 1/2	36	240
IA3470G	3/4	7	36	240
IA3475G	3/4	7 1/2	36	240
IA3485G	3/4	8 1/2	36	240
IA3410G	3/4	10	36	240
Pipe Size 72" – 132"				
IA1085G	1	8 1/2	40	120
IA1095G	1	9 1/2	40	120
IA10105G	1	10 1/2	40	120
IA10120G	1	12	40	120
IA10125G	1	12 1/2	40	120
IA10130G	1	13	40	120
IA10140G	1	14	40	120
IA10150G	1	15	40	120



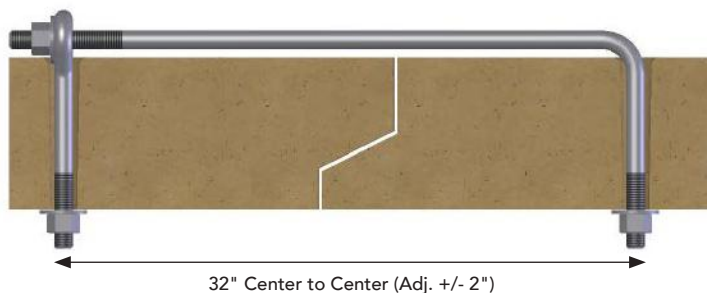
Single Eye Pipe Ties — Minnesota

These Minnesota DOT-approved pipe ties are assemblies with a formed eye bolt and a formed L rod that tie concrete pipe and box joints together.

- Extra thread for increased adjustment
- All parts are hot dip galvanized to ASTM F2329
- Includes (3) hex nuts ASTM A563 and (3) USS washers
- Pipe ties are designed for holding pipe or box sections together, not for pulling sections tight
- All material is melted and manufactured in the USA. Certifications available upon request.
- Also known as tie rods and joint restraints

Part Number	Rod Diameter (in)	Height (in)	Length (in)	Qty/Box
Pipe Size 12" – 27"				
3100	5/8	4 1/2	35 — No Thread	450
3101	5/8	4 1/2	35	450
3103	5/8	5 1/2	35	450
3104	5/8	7 1/2	35	300
Pipe Size 30" – 66"				
3105	3/4	5 1/2	35	240
3106	3/4	6	35	240
3107	3/4	7	35	240
3108	3/4	7 1/2	35	240
3109	3/4	8 1/2	35	240
3120	3/4	10	35	240
Pipe Size 72" – 132"				
3116	1	7 1/2	35	240
3111	1	10 1/2	35	240
3112	1	12	35	240
3113	1	12 1/2	35	240
3114	1	13	35	240
3115	1	15	35	240
Part Number Bell End Spacer Galvanized				
BES58	5/8" x 2"			
BES341.5	3/4" x 1 1/2"			
BES34	3/4" x 2 1/2"			
BES1	1" x 3 1/2"			

Add additional leg length for bell end spacer.



State of Minnesota Department of Transportation

Concrete Pipe Ties

Specification Reference: 2501, 2503

Standard Plate No. 3145G



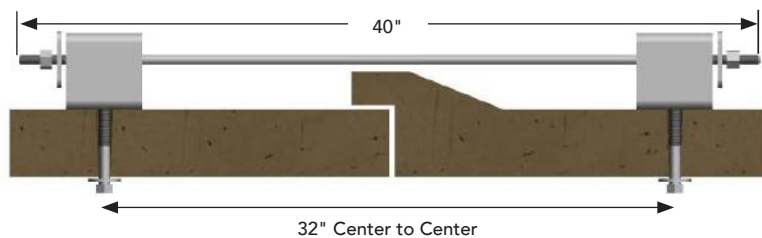
Bell End Spacer

Washington County Pipe Ties

Standoff style pipe tie is a system for tying together concrete pipe where a smooth inside surface is desired. Designed specifically to compensate for bell end pipe.

- Galvanized steel
- Rod and tubes are hot dip galvanized in accordance with the requirements of ASTM F2329
- Each pipe tie assembly includes the following fasteners: (2) Hex Nuts, (2) Plate Washers, (2) Tap Bolts and (2) USS Washers hot dip galvanized in accordance with the requirements of ASTM F2329, except tap bolt is zinc plated.
- The material is of domestic origin and is melted and manufactured in the USA. Certifications are available upon request.
- Also known as tie rods and joint restraints.

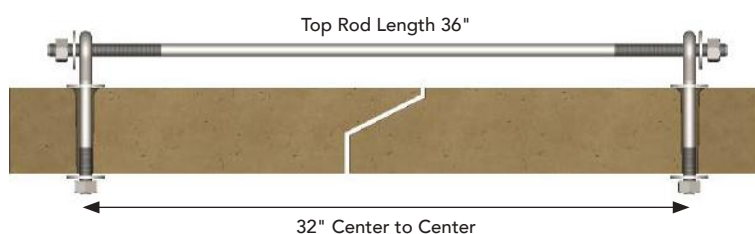
Part Number	Size (in)	Pipe ID (in)	Qty/Box
WCST5860	5/8 x 6	12 – 30	150
WCST3470	3/4 x 7	33 – 48	100
WCST3485	3/4 x 8 1/2	54 – 66	100
WCST10105	1 x 10 1/2	72 – 96	100
WCST1012	1 x 12	102 – 120	100



Polk County Pipe Ties

- Rod and Eyebolts are hot dip galvanized in accordance with the requirements of ASTM F2329
- Each pipe tie assembly includes the following fasteners: (4) Hex Nuts and (6) USS Washers, both hot dip galvanized in accordance with the requirements of ASTM F2329
- The material is of domestic origin and is melted and manufactured in the USA. Certifications are available upon request.
- Also known as tie rods and joint restraints.

Part Number	Size (in)	Qty/Box
PC3000	5/8 x 4 1/2	300
PC3006	3/4 x 6	240
PC3008	3/4 x 7 1/2	240
PC3009	3/4 x 8 1/2	240



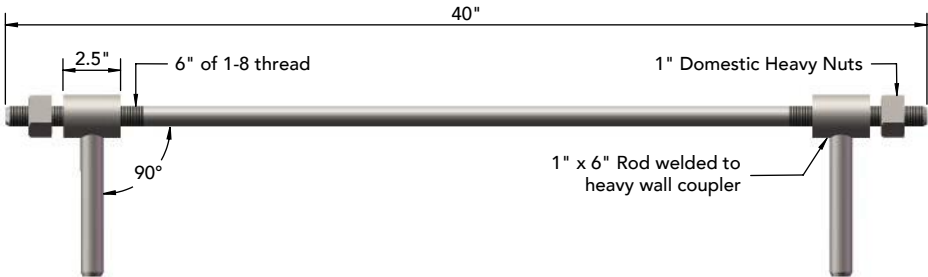
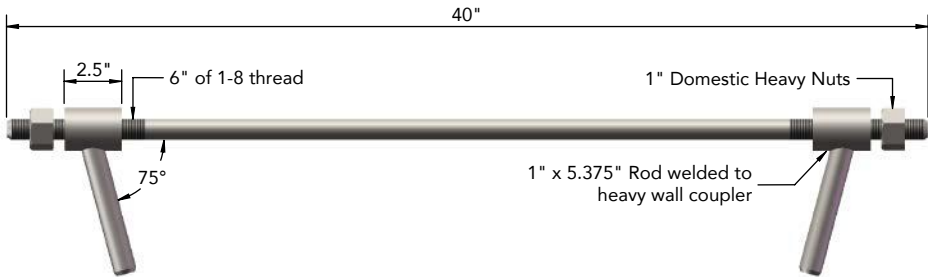
Hideaway Tie Rods

Hideaway tie rods are used for tying concrete pipe or boxes together where a smooth inside surface is desired, or where disturbing the interior surface of the concrete is not allowed.

- Heavy duty welded coupler design.
- All parts are hot dip galvanized to ASTM F2329.
- Each assembly includes (2) ASTM A563 heavy hex nuts, (2) couplers, and (1) connecting rod.
- Couplers are available as straight or angled to help prevent pull-out.
- All material is melted and manufactured in the USA. Certifications available upon request.
- Also known as pipe ties and joint restraints.

Part Number	Size (in)	Qty/Box
Option A – 75°		
3150G	1 x 5	150
3144GW	3/4 x 3	150
3145GW	3/4 x 4	150
Option B – 90°		
3151G	1 x 6	150

Note: 3/4" versions include (2) F436 washers.



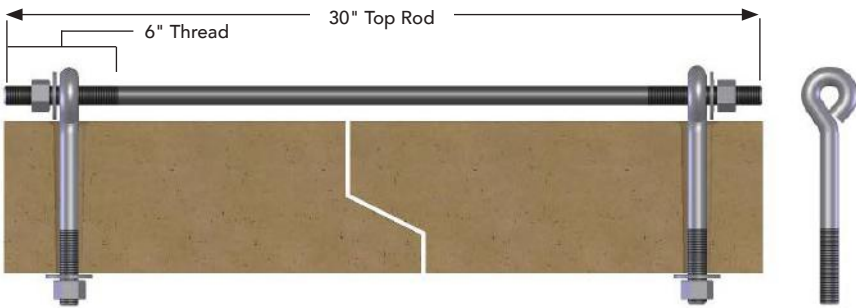


Wisconsin Pipe Ties

Wisconsin Style pipe ties are assemblies with (2) formed eye bolts and a straight top rod that tie concrete pipe and box joints together.

- Extra thread for increased adjustment
- All parts are hot dip galvanized to ASTM F2329
- Includes hex nuts and washers for each set of threads
- Pipe ties are designed for holding pipe or box sections together, not for pulling sections tight
- Also known as tie rods and joint restraints

Part Number	Size (in)	Qty/Box
WI3460G	3/4 x 6	240
WI3470G	3/4 x 7	240
WI3490G	3/4 x 9	240
WI10105G	1 x 10 1/2	120
WI10125G	1 x 12 1/2	120



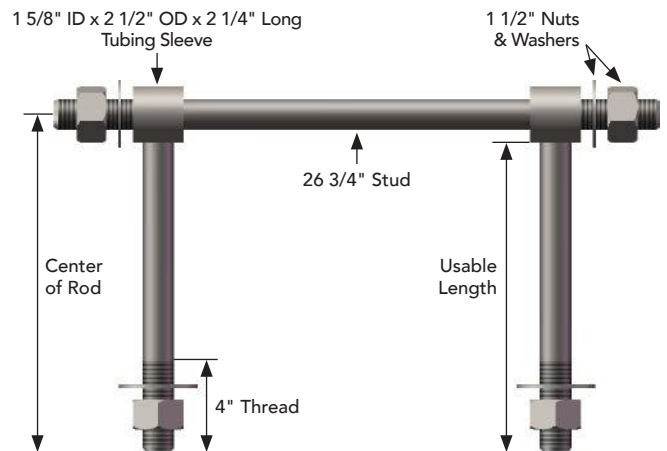
Heavy Duty Couplers

Heavy Duty Couplers for large boxes or bridges.

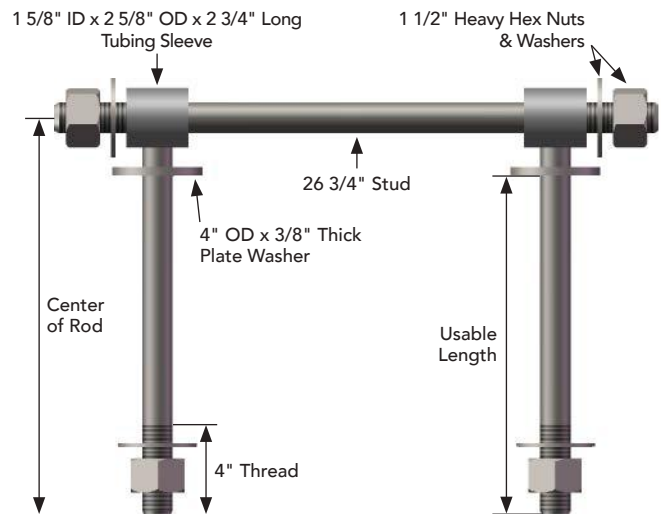
- Type A Couplers are unflanged
- Type B Couplers are flanged (washer welded below coupler head)
- Can be built to your specifications.
- Rod and couplers are hot dip galvanized in accordance with the requirements of ASTM F2329.
- Each assembly includes the following fasteners: (4) Hex Nuts, ASTM A563 and (4) Washers, both hot dip galvanized in accordance with the requirements of ASTM F2329.
- Made of import and domestic material. Certifications are available upon request.

Part Number	Usable Length (in)	Center of Rod (in)	Suggested Wall Thickness (in)
Standard Railroad Style Coupler			
BC12A	10 5/8	12	8
BC12B	12	14.5	10
BC14A	12 5/8	14	10
BC14B	14	16.5	12
BC15A	13 5/8	15	11
BC15B	15	17.5	13
BC16A	14 5/8	16	12
BC16B	16	18.5	14
Extra Heavy Duty Railroad Style Coupler			
BC6BNR	6	8.56	2 – 4
BC7BNR	7	9.56	3 – 5
BC11ABNR	11	12.31	7 – 9
BC11BNR	11	13.56	7 – 9
BC15ABNR	15	17.56	11 – 13
BC15BNR	15	17.56	11 – 13
BC18ABNR	18	20.56	14 – 16
BC21ABNR	21	22.31	17 – 19
BCE1.5X21ABNR	21	23.63	17 – 19

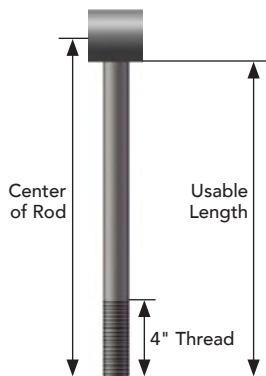
Type A



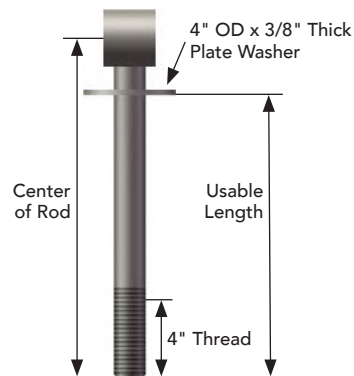
Type B



Type A – No Plate Washer



Type B

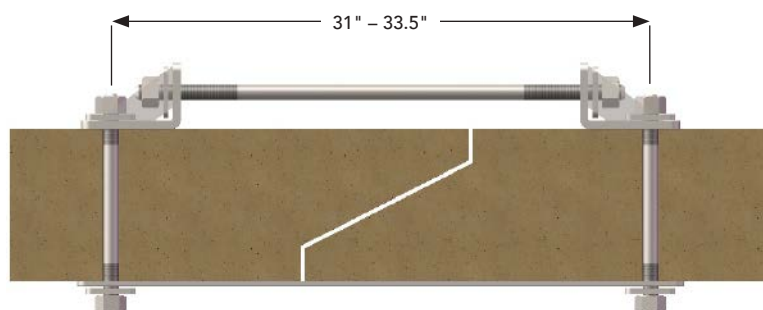


Extra Strong Tie Rods

Extra Strong Tie Rods are assemblies with fabricated heavy-duty angles, an interior connection plate, and ASTM F1554 grade 105 threaded studs that tie concrete pipe and box joints together.

- Extra thread for increased adjustment
- All parts are hot dip galvanized to ASTM F2329
- Includes hex nuts and washers for each set of threads
- Tie rods are designed for holding pipe or box sections together, not for pulling sections tight
- Also known as pipe ties and joint restraints
- MN DOT State Project No. FIG. 5-395.110(B)
- IL DOT Standard 542016, 542001-04, 542011, 542006-01

Part Number	Description
M102814-105	Extra Strong Tie 6" – 9" ASTM F1554 GR105
M102815-105	Extra Strong Tie 10" – 12" ASTM F1554 GR105
M102814ANG	Angle 6" x 4" x 1/2" x 6"
RD1X29GF-105	Stud 1" x 29" w/Nuts & Washers GR105



Assembly Includes	
Qty	Part
1	Top Connecting Rod
2	Side Rods
2	Angle Brackets
1	Plate 5/16" x 3" x 36"
2	Washers 5/16" x 3" x 3"
6	Heavy Hex Nuts

Bar Ties

Unit is made from 1/2" material and has 7/8" holes for 3/4" anchors.

Part Number	Description
BT330	Bar Tie 3" x 30"



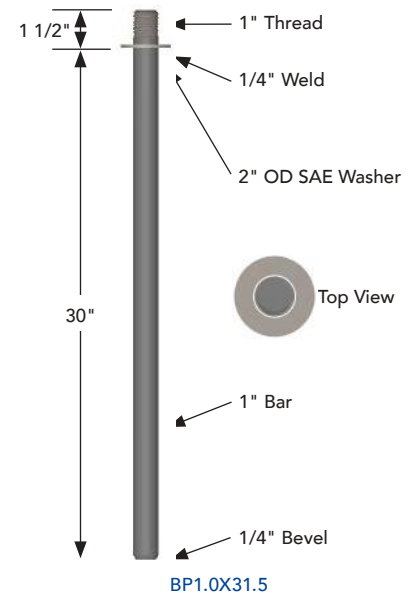
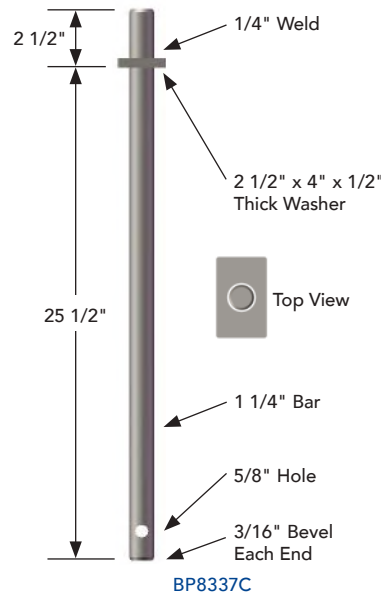
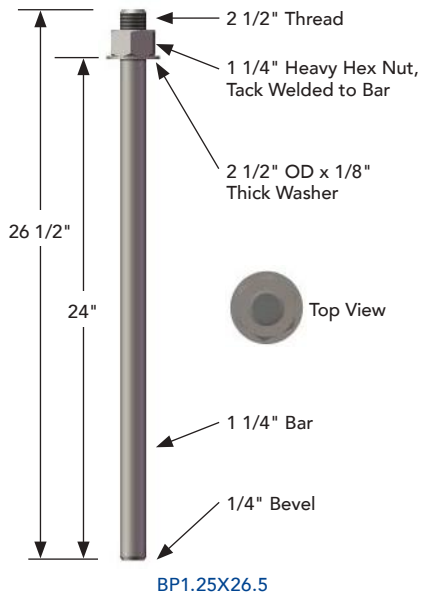
Connecting Pins — Median Barrier

Barrier Pins are made to state standards or can be made to your specifications. All aspects of the pin can be customized including bar diameter and length, to the type of fasteners and some typical standards include:

- MN DOT — 8337A, 8337C, 8337F, 8323F
- IL DOT — 704001-07
- CT DOT — 822-A

Part Number	Finish	Length (in)	Rod Diameter (in)	Weight (lbs)
BP1.25X26.5	Plain	26 1/2	1 1/4	10
BP1.25X26.5-G	Galvanized	26 1/2	1 1/4	10
BP8337C	Plain	28	1 1/4	12
BP8337C-G	Galvanized	28	1 1/4	12
BP1.0X31.5	Plain	31 1/2	1	7
BP1.0X31.5-G	Galvanized	31 1/2	1	7

MNDOT Standard Plate #8337C.



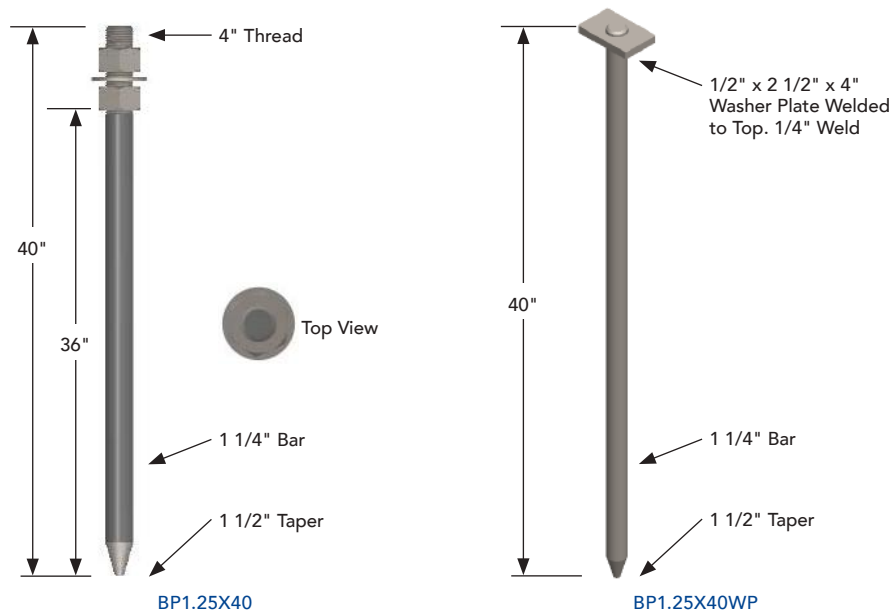


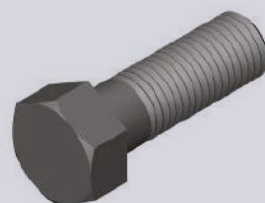
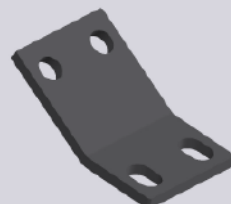
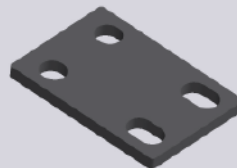
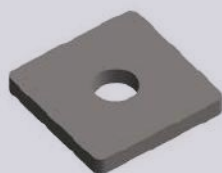
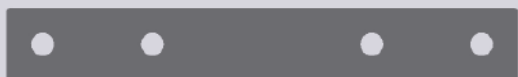
Anchor Pins

Anchor Pins are made to state standards or can be made to your specifications. All aspects of the pin can be customized including bar diameter and length, to the type of fasteners and threading or welding. Pins are available as plain or galvanized finish. See documents for more information about current pins.

- Please inquire for material certifications at the time of quote and the time of purchasing for connecting pins and anchor pins.
- Please call for a quote on specific designs, grades and fasteners.

Part Number	Finish	Length (in)	Rod Diameter (in)	Weight (lbs)
BP1.25X40	Plain	40	1 1/4	14.75
BP1.25X40-G	Galvanized	40	1 1/4	14.75
BP1.25X40WP	Plain	40	1 1/4	15
BP1.25X40WP-G	Galvanized	40	1 1/4	15





Wing Wall Hardware

Part Number	Description	Finish
Plates & Hardware		
UP19	Plate 10" x 14" x 3/8" Flat	Galvanized
UP23	Plate 10" x 14" x 3/8" x 40°	Galvanized
UP22	Plate 10" x 14" x 3/8" x 45°	Galvanized
UP05	Plate 10" x 14" x 1" Flat	Galvanized
UP15	Plate 10" x 14" x 1" x 15°	Galvanized
UP16	Plate 10" x 14" x 1" x 30°	Galvanized
UP06	Plate 10" x 14" x 1" x 35°	Galvanized
UP07	Plate 10" x 14" x 1" x 45°	Galvanized
UP08	Plate 10" x 14" x 1" x 55°	Galvanized
UP09	Plate 10" x 14" x 1" x 60°	Galvanized
UP10	Plate 10" x 14" x 1" x 65°	Galvanized
UP04	Plate 10" x 14" x 1" x 90°	Galvanized
UP11	Plate 10" x 17 1/4" x 1" x 30°	Galvanized
UP20	Plate 10" x 17" x 1" x 45°	Galvanized
UP28	Plate 10" x 18" x 1" x 60°	Galvanized
UP12	Plate 10" x 19" x 1" x 45°	Galvanized
UP13	Plate 10" x 21" x 1" x 45°	Galvanized
UP02	Plate 4" x 28" x 5/8"	Galvanized
UP21	Plate 6" x 30" x 1"	Galvanized
Fasteners		
92020	Bolt 1" x 2" (Imported)	Galvanized
92021	Bolt 1" x 2 1/4" (Imported)	Galvanized
92022	Bolt 1" x 2 1/2" (Imported)	Galvanized
92024	Bolt 1" x 3" (Imported)	Galvanized
10642-06485	Hex Nut 1" (Made in USA)	Galvanized
UP03	Stud Bolt 1" x 6" 8 TPI (Made in USA)	Galvanized
060118	Washer 1" (Made in USA)	USS Galvanized
UP17	Washer 4" x 4" x 1/4" – 1 1/8"	Galvanized
UP18	Washer 4" x 4" x 3/8" – 1 1/8"	Galvanized
UP01	Washer 4" x 4" x 1/2" – 1 1/8"	Galvanized
UP14	Washer 4" x 4" x 1/2" – 1 3/8"	Galvanized
UP31	Washer 4" x 4" x 1/2" – .875"	Galvanized
UP32	Washer 5" x 5" x 1/2" – 1.62"	Galvanized
52010	Wedge Anchor 1/2" x 3 3/4" (Imported)	Zinc
52060	Wedge Anchor 1/2" x 3 3/4" (Made in USA)	Stainless
52065	Wedge Anchor 5/8" x 5" (Made in USA)	Stainless
52070	Wedge Anchor 3/4" x 5 1/2" (Made in USA)	Stainless
100-0900	Wedge Anchor 1" x 9" (Made in USA)	Galvanized





Concrete Accessories

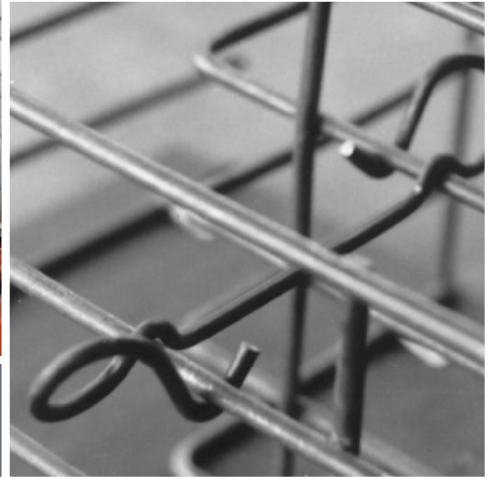
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