



## Mission Rubber Company LLC

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**MISSION**  
 RUBBER COMPANY

*Designed to join  
 ribbed/corrugated  
 profile pipe to smooth  
 wall plastic drainage pipe*

**MEETS:**  
 ASTM C 425  
 ASTM C 1173  
 ASTM A240/A240M



## Flex-Seal® Corrugated Coupling - Submittal MR70 Series - 18" to 48" sizes

*Performance Couplings for Similar and Dissimilar Pipe Sizes*

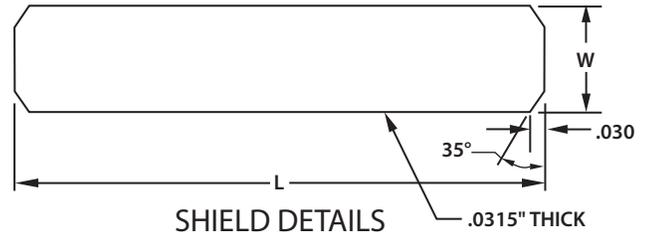
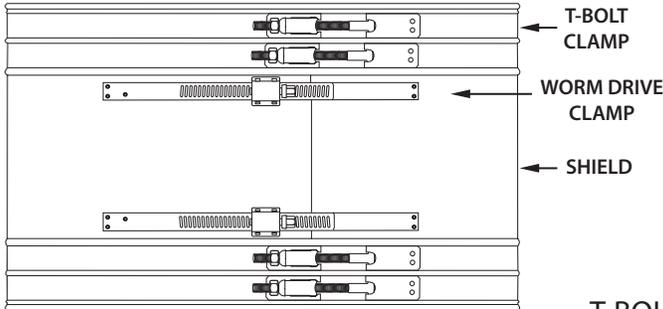
PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

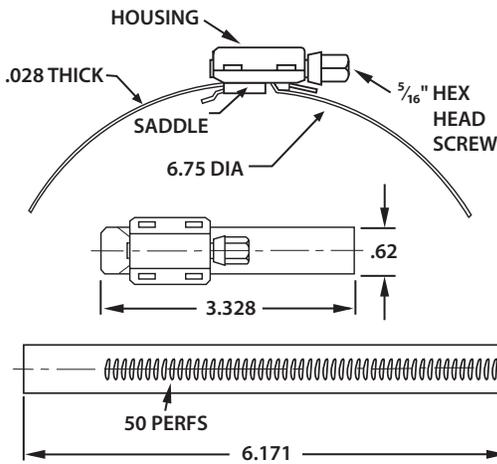
CONTRACTOR \_\_\_\_\_

### MATERIALS

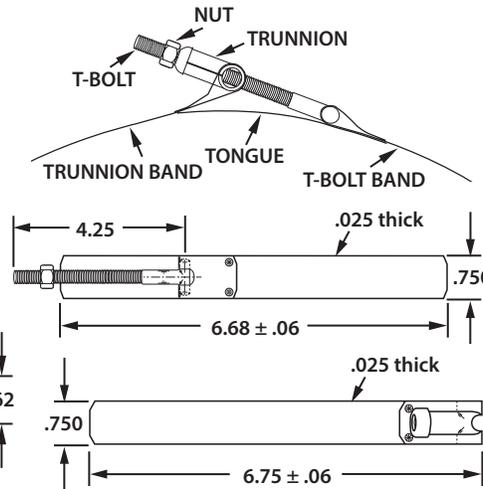
T-Bolt Clamp Bolt: 305 series ss / Nut: 305 series ss / Band: 316 series ss  
 Worm Drive Clamp Screw: 305 series ss / Housing: 304 series ss / Saddle: 304 series ss / Band: 304 series ss  
 Shield 301 series ASTM stainless steel .0315" thick on 18" - 48"  
 Gasket This gasket is fabricated from a compound with high-quality elastomeric properties to meet physical testing



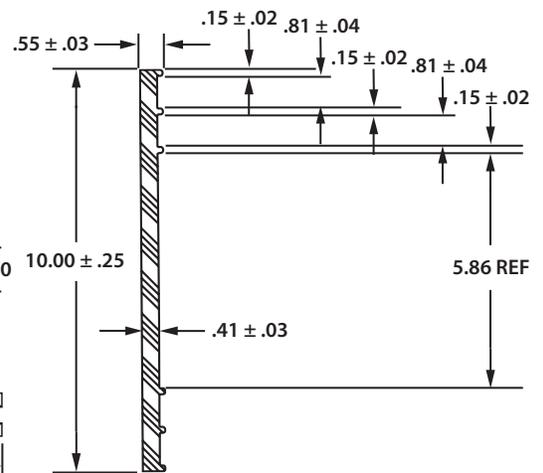
### WORM DRIVE CLAMP DETAILS



### T-BOLT CLAMP DETAILS



### SEALING GASKET DETAILS



MISSION REFERENCE MR70 SERIES	SHIELD DIMENSIONS		SEALING GASKET DIMENSIONS		
	L	W	D1	D2	W
MR70 1818	71.63	5.75	19.33	21.33	10.00
MR70 2424	92.88	5.75	25.63	28.13	10.00
MR70 3030	116.13	5.75	32.03	35.53	10.00
MR70 3636	134.13	5.75	38.23	41.23	10.00
MR70 4242	156.38	5.75	44.83	48.33	10.00
MR70 4848	174.00	5.75	50.93	53.93	10.00

TEST	GASKET PHYSICAL TESTS (ASTM C 425)	ASTM C 425
Tensile Strength	1000 PSI minimum	D412
Elongation	250% minimum	D412
Durometer (Shore A)	55 minimum 70 maximum	D2240
Accelerated Aging	85% of original tensile strength 85% of original elongation All determined after oven aging at 70°C for 7 days	D573
Compression Set	20% maximum of original deflection	D395
Ozone Cracking	No visible cracking at 2X magnification of the gasket after 24 hours exposure in 0.5 PPHM ozone concentrations at 40°C. Testing and inspection to be on gasket which is loop-mounted to give approximately 20% elongation of outer surface.	D1149
Water Absorption	5% maximum by weight after 7 days at 70°F	D471

**Used to Join** - MR70 Series Couplings are used to join ribbed/corrugated profile pipe to smooth wall plastic drainage pipe.

**Mission Rubber's Flex-Seal® Corrugated Coupling** is a shielded storm water, sewer and drainage system coupling. The MR70 Series 18" to 48" coupling consists of a combination of 300 series stainless steel worm drive clamps with surgical grade 316 stainless steel T-Bolt clamps, attached to a heavy duty 301 stainless steel shield over an elastomeric sealing gasket.

**Leak-Proof Seal** - Increased band tension of the surgical grade 316 stainless steel T-Bolt clamps ensures a water-tight, leak-proof and root-proof seal that is resistant to both infiltration and exfiltration. Sealing "O" Rings are installed under each sealing clamp to prevent pipe slippage and create a more positive seal.

**Corrosion Resistant** - Surgical grade 316 stainless steel T-Bolt clamps and 300 series stainless steel components, provide outstanding protection in severe environments; such as marine applications, poorly aerated or moist soils, contaminated ground conditions (particularly industrial fill sites) and where the ground water contains chloride, sulfates or bicarbonates.

**Superior Rigidity** - .0315" thick 301 series stainless steel shield provides for superior load bearing control between the coupling and pipe surface. The coupling's rugged construction provides excellent sealing properties and the stainless steel shield provides excellent resistance to shear forces and helps with alignment, while maintaining flexibility.

**Withstands Tension and Compression** - Synthetic rubbers permit a substantial degree of distortion without change in basic physical resistance, unlike other manufacturers' thermoplastic coupling materials. Molded synthetic rubber gasket is strong, durable and resilient to ultraviolet rays, ozone, fungus growth, natural erosive properties of soil and normal sewer gases. More pliable and easier to install in cold weather applications than an elastomeric PVC gasket.

**Pre-Set Calibration** - All Flex-Seal® MR70 Series Couplings are designed to be installed with a pre-set torque wrench calibrated to 60 in/lbs. maximum to accommodate the 300 series stainless steel 5/16" hex head screw.