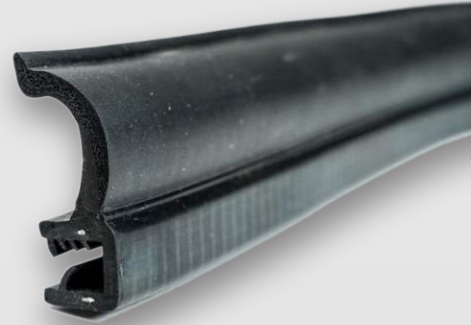




"THE RUBBER GUYS"



TRIM SEALS ***DIRECT***





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IN THE
USA**

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WHO WE ARE

GREAT PEOPLE PROVIDING HIGH QUALITY PARTS ON TIME, EVERY TIME.

FlexSeals is a talented group of people that have been leaders in the rubber and plastics industry since 1995. FlexSeals has become a preferred source for custom extruded, die-cut and molded flexible product solutions.

EXPERIENCE THE FS USA DIFFERENCE

1. Engineering and Design Support
2. Proudly Manufacturing In the USA
3. We Manufacture all Types of Extruded Solutions
 - a. Rubber, Plastic, Single Durometer, Multiple Durometer, Wire & Metal Encapsulated, Framing, Gluing, & Finishing
4. Largest Standard Tooling Catalog in the Industry
5. Speed to Market with In-House Tooling
6. Privately Held with Active, Multi-Generational Management
7. Industry Leader in Service with Over 25 Years Together
8. Your One Stop Shop for All Your Rubber and Plastic Needs
9. Multiple Locations to Serve You Better- MN, GA, OH
10. Constantly Innovating- "Our Standards Never Rest" : ISO 9001:2015

THIS IS WHAT MAKES US FOREVER DIFFERENT!



WHAT WE DO

WHEN YOU THINK RUBBER & PLASTICS, THINK FLEXSEALS!

EXTRUSION

FS USA offers a full range of extruded solutions. Our in-house tooling center gives us an upper hand in our speed to market and our finishing and service center offerings make any bulk extrusion conversion seamless.

- Co & Tri Extrusions
- Metal Encapsulated
- Corner Molding
- Coatings: Adhesives, flocking, anti-friction, etc.
- Inline Lamination: Plasma & Heat Activated
- Vulcanized Splicing
- Push Pin Insertion
- Assembly
- And More!

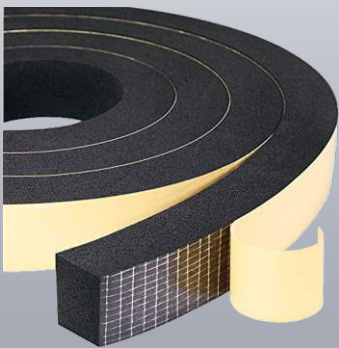


WHAT WE DO

DIE-CUT/MATTING

FS USA offers you the capability of fabricating a variety of materials to create seals, gaskets, tape and many other rubber and plastic products in virtually any size, shape or configuration.

- Kiss-Cutting
- Slitting
- Adhesive Laminating
- Lathe Cutting
- Heat Shield Material
- Acoustical Material
- Extrusion Notching/Cutting
- And More!



WHAT WE DO

MOLDING

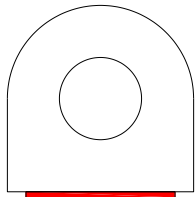
FS USA offers custom-molding capabilities with injection, transfer and compression molding processes. We have the technology to handle your production requirements.

- Rubber-to-Metal Bonding
- Injection Corner Molding
- Large Molded Ducts/Tubes
- Molded Floor Mats
- Extrusion Details
- O-Rings
- And More!



INFORMATION

TYPES OF SEALING PROFILES



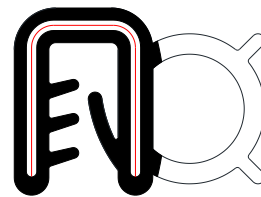
Sponge



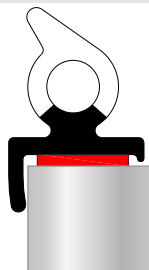
Dense



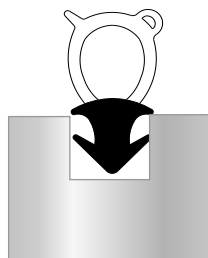
Dual
Durometer



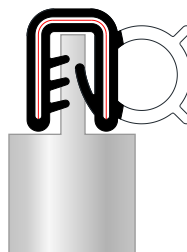
Metal
Encapsulated



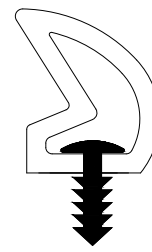
PSA/HATS



Push-In/Barb



Clip-On

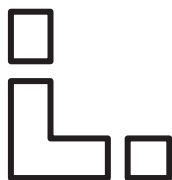


Pins

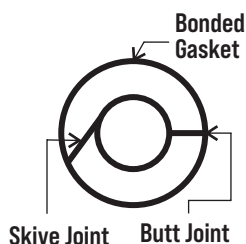
FABRICATING & BONDING



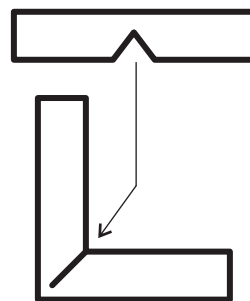
45° Miter cut for
90° Corner



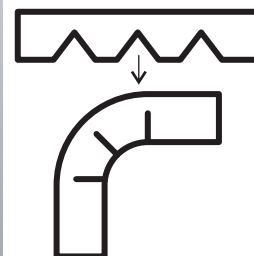
90° With Molded Corner
With Butt Joints
(Not available with
taped extrusions)



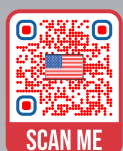
Skive Joint Butt Joint



Notched 90° Corner



Multi-notched for
Radius Corner



ADHESIVE SELECTION



Some type of adhesive will be needed to hold your seal in place. Whether it is for temporary placement or a permanent application, different adhesive requirements will need to be met. Each surface type may require a different adhesive. Contact your FS Sales Engineer to determine the correct adhesive method for your specific application.

Generally, Heat Activated Tape (HATS) is used for permanent applications where the seal is exposed to extreme environments and stresses. Acrylic and rubber based adhesives are normally used to hold the seal in place before the seal is more permanently attached. Acrylic and rubber adhesives are generally used in less demanding applications. Special considerations apply when bonding to irregular and low-surface energy materials (polypropylene for example).

No matter what bonding surface you apply the seal to, it must be clean and free of any surface contaminants such as oils, greases, plasticizers, mold releases and dirt in general. Most bonding failures are not due to the adhesive failing, but instead the failure to properly clean the surfaces. It is also important to note that all adhesive applications will require compression when the gasket is being applied.

CLIP-ON INSERT SELECTION

FS USA manufactures coextruded dual, and triple durometer EPDM rubber seals with encapsulated metal inserts. Depending on the sealing application, multiple insert materials and configurations are available to meet specific performance requirements. Variables which influence insert design and configuration include bulb location, corner radii, the axis in which the seal will be mounted, shear, pull and peel forces, and flange geometry. Contact your FS Sales Engineer to select the appropriate insert for your engineered sealing profile.

STAMPED OR LANCED	INSERT MATERIAL	WIRE
	- LOW CARBON STEEL	
	- STAINLESS STEEL	
	- ALUMINUM	

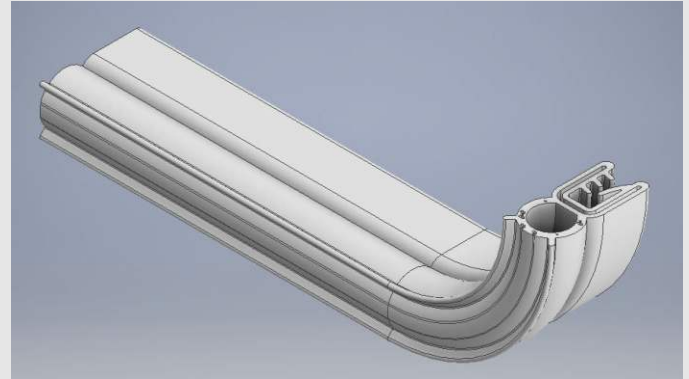
MATERIAL CHARACTERISTICS											Applications
Material	Common Name	ASTM D1418	ASTM D2000 CLASS	Shared Temperature Range [°F]	Petroleum Fluids	Ozone	Resistance Weather (UV)	Compression Set	Tensile Strength	Economy	
Nitrile	Buna-N	NBR	BG	-40 TO +257	1	4	4	1	3	2	Petroleum fluid exposure.
Fluorocarbon	Viton	FKM	HK	-13 TO +446	1	1	1	1	3	4	Custom compounds improve chemical and low-temperature resistance. High heat.
Ethylene-Propylene	EPDM	EP	BA	-40 TO +275	4	1	1	2	2	1	Great for all purpose sealing application.
Silicone	Silicone	VMQ	GE	-85 TO +400	3	1	1	1	4	3	Popular for food and medical applications. Temperature range.
Fluorosilicone	Fluorosilicone	FVMQ	FK	-75 TO +400	1	1	1	1	4	4	Low outgassing, used in military and aerospace applications.
Natural Rubber	Natural Rubber	NR	AA	-60 TO +160	4	4	4	2	1	2	Great resilience/resistance, tensile and elongation.
Chloroprene	Neoprene	CR	BC	-40 TO +250	2	2	2	2	3	2	General purpose rubber for petroleum resistance. Can be used for skin contact.
Thermoplastic	Santoprene (TPE)			-25 TO +230	4	2	2	3	3	2	Easy to process. Wide color range. Recyclable.

APPLICATION DRIVES MATERIAL SELECTION



TOP BULBS

Bulb seals are seals which can be made of various materials including EPDM, PVC, Dual durometer, etc. The bulb can be placed on the top of the seal or either side. In this case, the bulb is co-extruded to the top of the seal. Bulb seals allow an edge to be covered, while having further gap reach for more challenging sealing applications. Bulb seals can be fastened to applications by being mounted, (via clip, push-in, or slide in) or adhesion via acrylic foam tape. Choose from our large selection of standard bulb seals or contact an engineer for a custom application today! We look forward to serving you!



Note: Top Bulbs are restricted in most applications to the flange being perpendicular to the sealing surface. See image to the right.

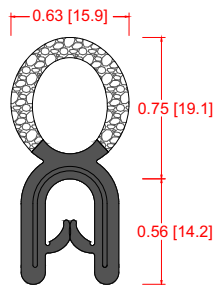
★ = STOCKED ITEM

PART NO. #1359 FLANGES 1mm - 1.5mm	PART NO. #3231 FLANGES 1.5mm - 3mm	PART NO. #3399 FLANGES 1.5mm-3mm	★ PART NO. #1197 FLANGES 3mm-5mm
PART NO. #1807 FLANGES 1.5mm - 3mm	★ PART NO. #1193 FLANGES 1.5mm	PART NO. #1242 FLANGES 1.5mm - 3mm	PART NO. #3001 FLANGES 1.5mm - 3mm



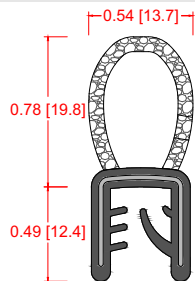


PART NO. #3131



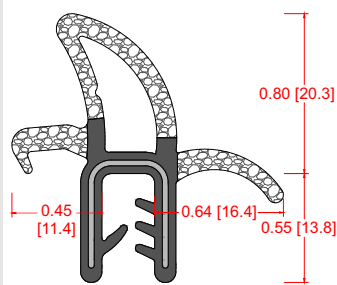
FLANGES 3.5mm-5mm

PART NO. #3073



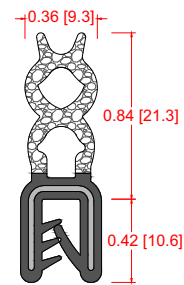
FLANGES 3.5mm-6mm

PART NO. #3235



FLANGES 3mm - 5mm

PART NO. #3107



FLANGES 1.5mm - 3mm

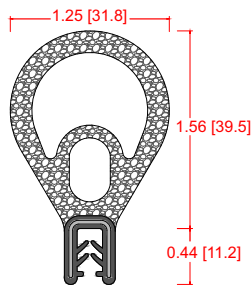


PART NO. #3175



FLANGES 3mm - 5mm

PART NO. #3502



FLANGES 1.5mm - 3mm



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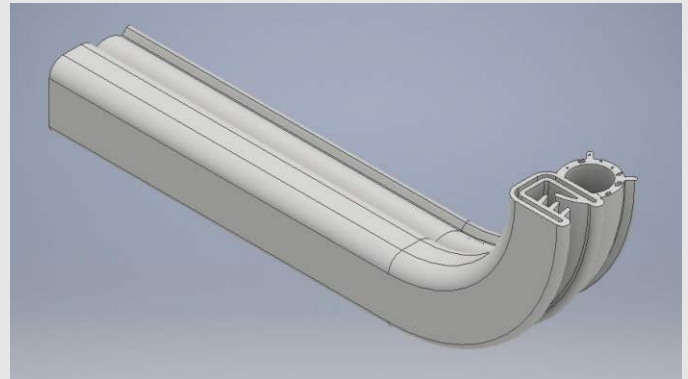
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SIDE BULBS

Bulb seals are seals which can be made of various materials including EPDM, PVC, Dual durometer, etc. The bulb can be placed on top or either side of the seal. In this case, the bulb is co-extruded on the side of the seal. Bulb seals allow an edge to be covered, while having further gap reach for more challenging sealing applications. Bulb seals can be fastened to applications by being mounted, (via clip, push in, or slide in) or adhesion via acrylic foam tape. Choose from our large selection of standard bulb seals or contact an engineer for a custom application today! We look forward to serving you!



Note: Side Bulbs are restricted in most applications to the flange being parallel to the sealing surface. See image to the right

★ = STOCKED ITEM

PART NO. #1441 FLANGES 1mm - 1.5mm	★ PART NO. #1198 FLANGES 1.5mm - 3mm	PART NO. #3636 FLANGES 3.5mm - 6mm	PART NO. #1709 FLANGES 3.5mm - 6mm
PART NO. #1288 FLANGES 1.5mm - 3mm	★ PART NO. #3009 FLANGES 1.5mm - 3mm	PART NO. #3196 FLANGES 1.5mm - 3mm	PART NO. #3144 FLANGES 1.5mm - 3mm



PART NO. #3125 FLANGES 1.5mm - 3mm	PART NO. #1493 FLANGES 1.5mm - 3mm	PART NO. #3148 FLANGES 6.5mm - 9mm	PART NO. #3684 FLANGES 3.5mm - 6mm
PART NO. #3341 FLANGES 6.5mm - 9mm	PART NO. #1190 FLANGES 1.5mm - 3mm	PART NO. #1189 FLANGES 1.5mm - 3mm	★ PART NO. #1741 FLANGES 1.5mm-3mm
★ PART NO. #3130 FLANGES 3.5mm - 5mm	PART NO. #3552 FLANGES 1.5mm - 3mm	PART NO. #3288 FLANGES 1.5mm - 3mm	PART NO. #3004 FLANGES 1.5mm - 3mm

NOT FINDING YOUR PROFILE?

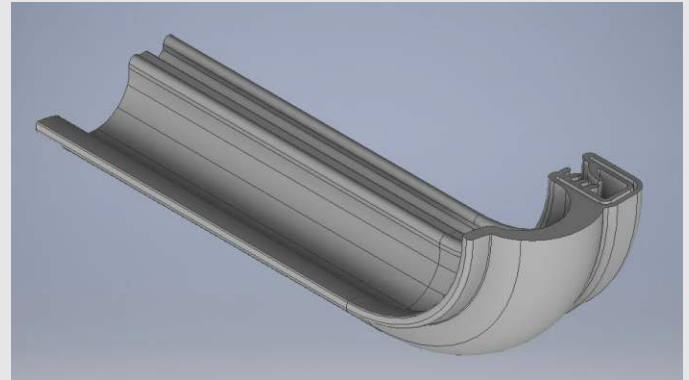
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WIPERS

Wiper Seals create a finished edge and seal which protects against weather and water damage. It is made by co-extruding an EPDM flap with dense edge trim and a wire carrier. A wiper seal can be used to create a soft seal on a slide-out room against a recreational vehicle (RV) and guard against water finding its way into the vehicle. Try one of our standard options or contact an engineer for a custom solution today! We look forward to serving you!



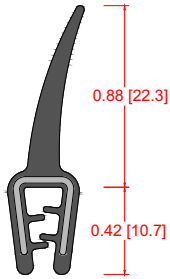
Note: Side Wipers are restricted in most applications to the flange being parallel to the sealing surface. Top Wipers are restricted to perpendicular.

★ = STOCKED ITEM

PART NO. #3483 FLANGES 1.5mm-3mm	PART NO. #4005 FLANGES 1.5mm - 3mm	★ PART NO. #3555 FLANGES 1mm-3mm	★ PART NO. #3556 FLANGES .5mm - 1.5mm
★ PART NO. #3409 FLANGES 1.5mm - 3mm	PART NO. #3194 FLANGES 2mm - 3.5mm	★ PART NO. #3287 FLANGES 2mm - 3.5mm	PART NO. #3628 N/A

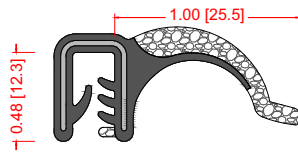


PART NO. #3075



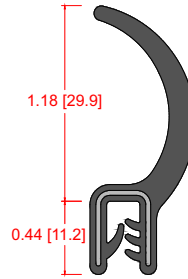
FLANGES 1mm - 3mm

PART NO. #3153



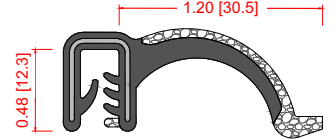
FLANGES 1.5mm - 3mm

PART NO. #3229



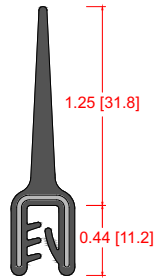
FLANGES 1.5mm - 3mm

PART NO. #3143



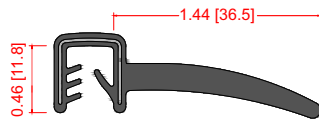
FLANGES 1.5mm-3mm

PART NO. #3641



FLANGES 1.5mm - 3mm

PART NO. #4010



FLANGES 3.5mm - 6mm



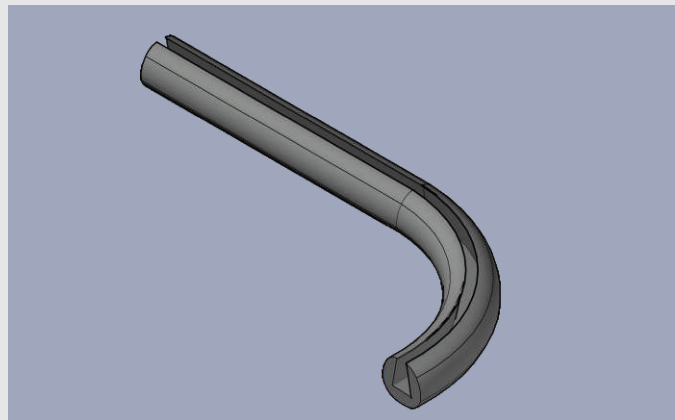
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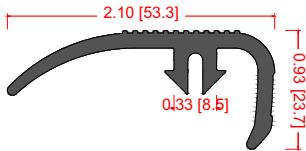
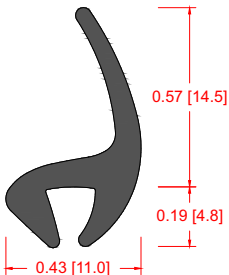
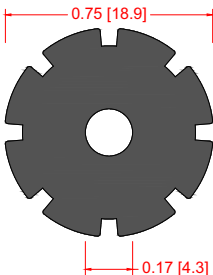
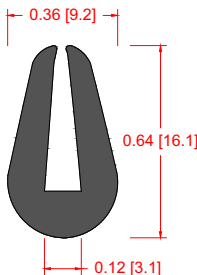
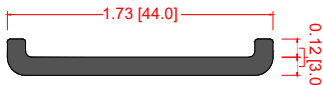
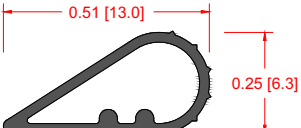
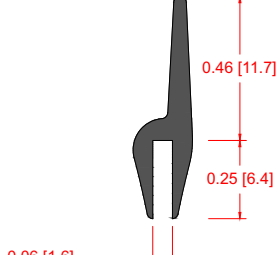
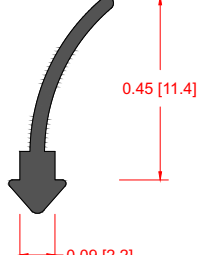


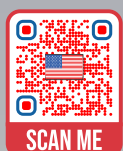
DENSE EDGE

Our dense edge trim provides a finished appearance and edge protection that protects people from injury and the equipment from damage. It is fastened by pressing it into place over the edge of a door, hatch, truck/tractor cab, and other machinery or equipment. Dense edge trim can also have adhesive injected into the channel. Choose from our wide selection of trim seals for your many sealing applications. Try one of our standard options or contact an engineer for a custom solution today! We look forward to serving you!

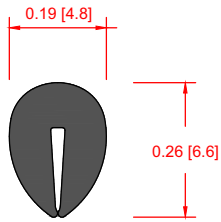


★ = STOCKED ITEM

PART NO. #3085	PART NO. #3199	PART NO. #3209	PART NO. #3249
			
N/A	FLANGES 2mm - 3mm	N/A	FLANGES 1mm - 2mm
PART NO. #3300	PART NO. #3481	PART NO. #3661	PART NO. #3662
			
N/A	N/A	N/A	N/A

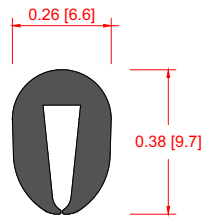


★ PART NO. #3570



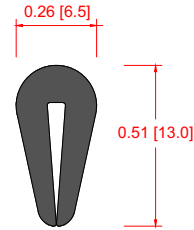
FLANGES .5mm-1mm

★ PART NO. #3454



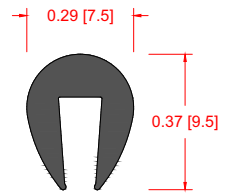
FLANGES 2mm

★ PART NO. #3573



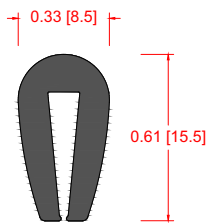
FLANGES 1mm-1.5mm

★ PART NO. #3574



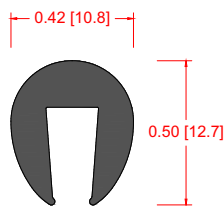
FLANGES 3mm

★ PART NO. #3571



FLANGES 3mm

★ PART NO. #3569



FLANGES 4mm



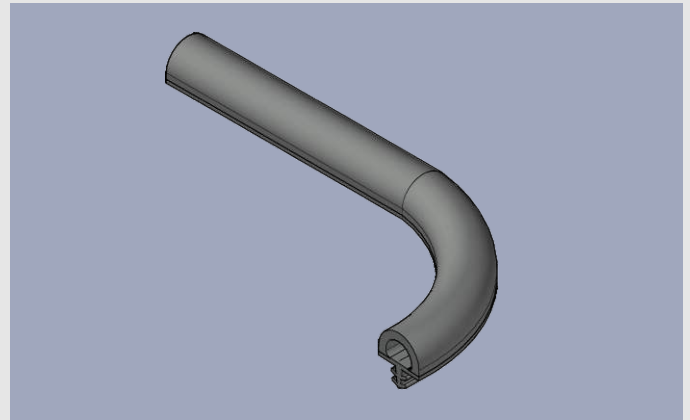
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DUAL DUROMETER

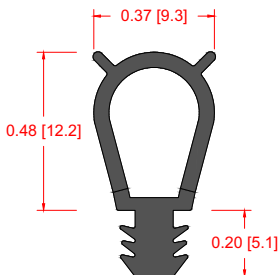
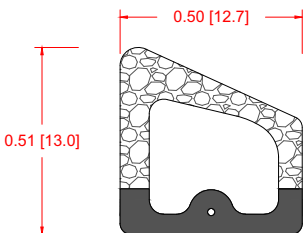
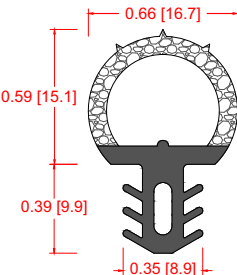
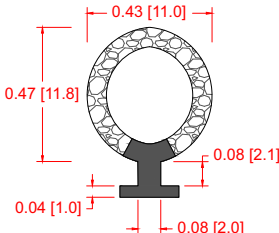
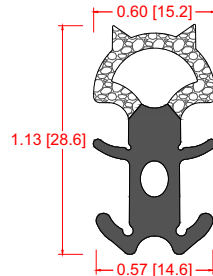
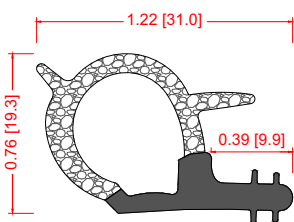
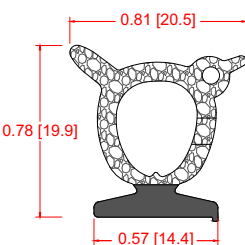
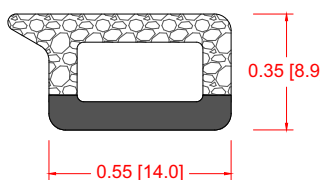
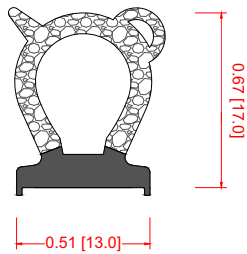
Dual durometer seals are made from rubber and they serve a plethora of applications. Dense EPDM is coextruded with sponge EPDM to provide a dense durable portion of the profile and a soft, sponge portion that provides excellent sealing capabilities. These can be fastened in multiple ways including, but not limited to; acrylic foam tape applied, "push-in" applications, and "slide in" applications. Choose from our large selection of standard dual durometer seals or contact an engineer for a custom application today! We look forward to serving you!



★ = STOCKED ITEM

★	PART NO. #1462	PART NO. #3084	★	PART NO. #3112	PART NO. #3123
TAPE	> .375"	N/A	TAPE	.250"	N/A
PART NO. #3135	★	PART NO. #3304	PART NO. #3305	PART NO. #3324	
FLANGES	1.5mm - 3mm	N/A	N/A	N/A	



PART NO. #3350  N/A	PART NO. #3398  TAPE > .375"	PART NO. #3407  N/A	PART NO. #3455  N/A
PART NO. #3491  N/A	PART NO. #3596  N/A	PART NO. #3626  TAPE > .500"	PART NO. #3498  N/A
★ PART NO. #1477  TAPE > 12mm			



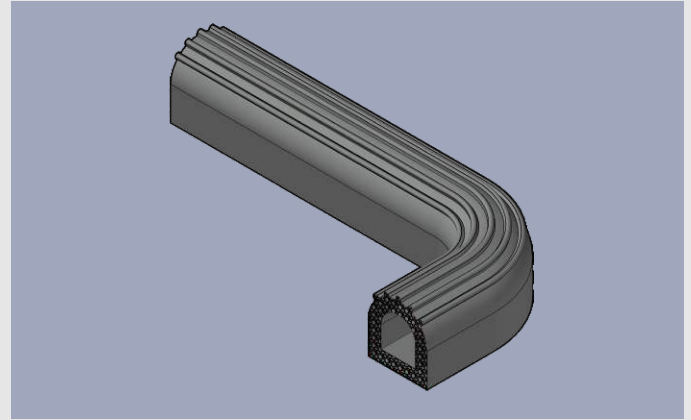
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SPONGE

We offer an extensive variety of sponge profiles to fit many applications. Sponge typically is referred to as a softer, closed cell, material. Sponge seals come in all shapes and sizes and can be made from various rubber materials. Sponge seals offer protection of sharp edges, sealing out the elements, and they improve the aesthetics of many projects. Sponge seals are typically fastened by pushing them into a channel, onto a flange, or through adhesion with acrylic foam tape. Choose from our large selection of standard sponge seals or contact an engineer for a custom application today! We look forward to serving you!



Note: See page 4 for adhesive and bonding

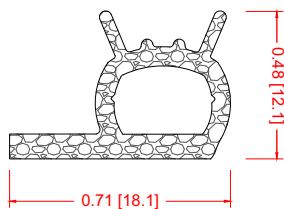
★ = STOCKED ITEM

PART NO. #3383	PART NO. #3541	PART NO. #3647	PART NO. #3672
N/A	N/A	N/A	N/A
PART NO. #3031	★ PART NO. #3564	★ PART NO. #3558	PART NO. #3154
TAPE ≥ .500"	TAPE ≥ .375	TAPE ≥ .25"	TAPE ≥ .375"



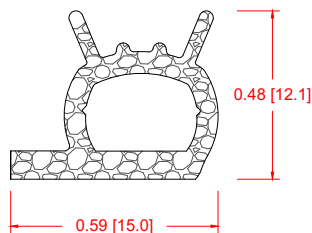
★	PART NO.	#3291	PART NO.	#3225	PART NO.	#3540	PART NO.	#1325			
TAPE ≥ .25"		TAPE ≥ .250"		TAPE ≥ 1.125"		TAPE ≥ .375"					
★	PART NO.	#3137	PART NO.	#3679	PART NO.	#3200	★	PART NO.	#3162		
TAPE ≥ .250"		TAPE ≥ .250"		TAPE ≥ .625"		TAPE ≥ .75					
★	PART NO.	#1146	★	PART NO.	#3049	★	PART NO.	#3164	PART NO.	#3608	
TAPE ≥ .375"		TAPE ≥ .500"		TAPE ≥ .500"		TAPE ≥ .500"					
PART NO.		#3655	PART NO.		#3018	★	PART NO.	#1840	★	PART NO.	#3348
TAPE ≥ .375"		TAPE ≥ .375"		TAPE ≥ .625"		TAPE ≥ .25"					

★ PART NO. #3156



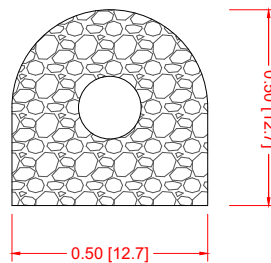
TAPE $\geq .625"$

PART NO. #3486



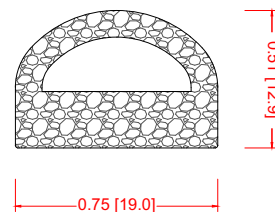
TAPE $\geq .500$

★ PART NO. #4008



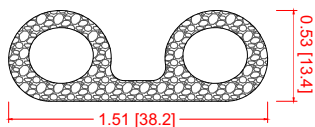
TAPE $\geq .375"$

★ PART NO. #3293



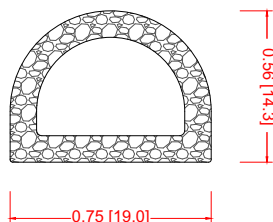
TAPE $\geq .625"$

PART NO. #3155



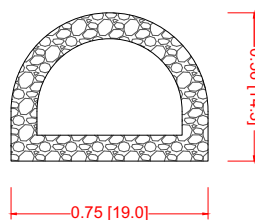
TAPE $\geq 1.250"$

★ PART NO. #3563



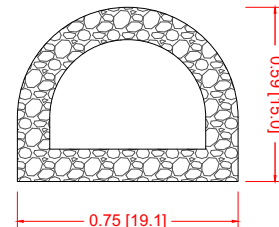
TAPE $\geq .625"$

★ PART NO. #3251



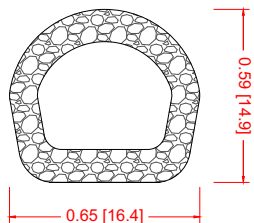
TAPE $\geq .625"$

PART NO. #1048



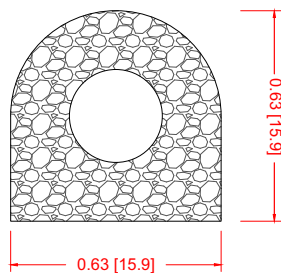
TAPE $\geq .625"$

★ PART NO. #3054



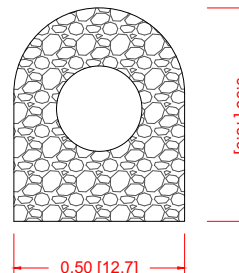
TAPE $\geq .375"$

★ PART NO. #3136



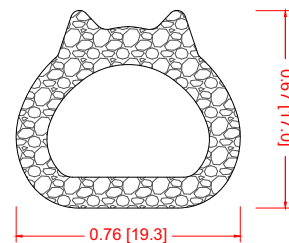
TAPE $\geq .500"$

★ PART NO. #4009



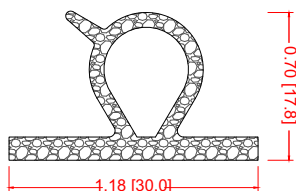
TAPE $\geq .375$

★ PART NO. #1599



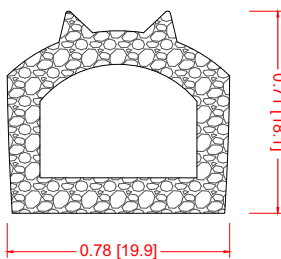
TAPE $\geq .500"$

PART NO. #1491



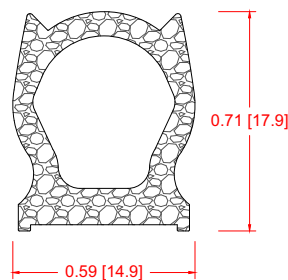
TAPE $1/16" - 1/8"$

PART NO. #3618



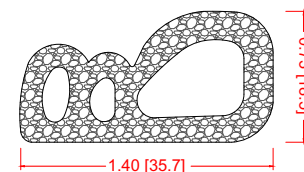
TAPE $\geq .625"$

PART NO. #3411



TAPE $\geq .500$

PART NO. #3207



TAPE $1/16" - 1/8"$



PART NO. #1984 TAPE 1/16" - 1/8"	★ PART NO. #3052 TAPE ≥ .625"	PART NO. #3484 TAPE ≥ .750"	PART NO. #1946 TAPE ≥ .500"
PART NO. #3368 TAPE ≥ 1.125"	★ PART NO. #3166 TAPE ≥ .750"	PART NO. #3442 TAPE ≥ .625"	★ PART NO. #3572 TAPE ≥ .875"
★ PART NO. #3250 TAPE ≥ .875"	PART NO. #3622 TAPE 1/16" - 1/8"	PART NO. #3027 TAPE ≥ .500"	PART NO. #3711 TAPE 1/16" - 1/8"

NOT FINDING YOUR PROFILE?

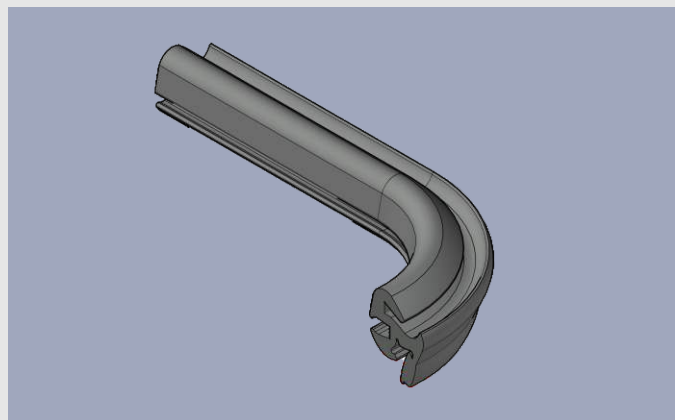
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LOCKING CHANNEL

Our locking channels are EPDM window seals that function well in applications that are not exposed to gasoline, kerosene, oils, or other concentrated acids. Most of the time, locking channels are used in applications where there is a fixed window and body. These could include doors on trucks, cars, UTVs, or any other scenario that needs to hold windows in place on a metal or fiberglass body. Our locking channels are made with automotive grade EPDM and they are resistant to aging, oxygen, weather, sunlight, ozone, and acids. Try one of our standard options or contact an engineer for a custom solution today! We look forward to serving you!



★ = STOCKED ITEM

★	PART NO.	#3016	PART NO.	#3097	★	PART NO.	#3559	PART NO.	#3151

NOT FINDING YOUR PROFILE?

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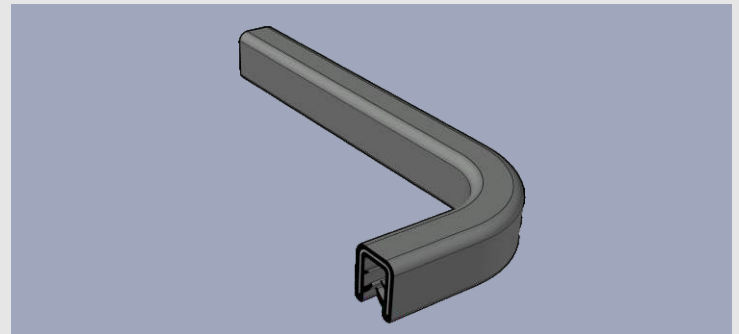
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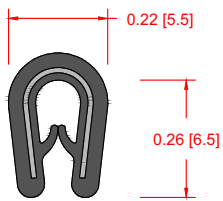
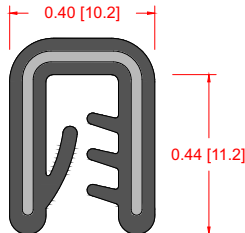
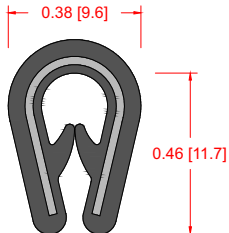
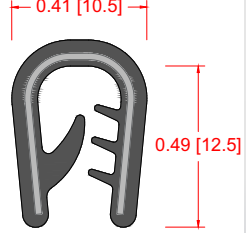
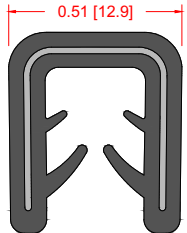
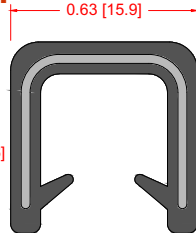
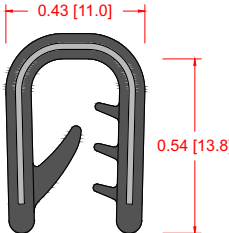
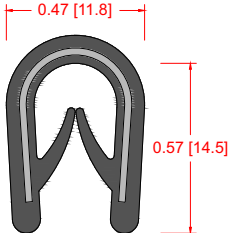
EPDM & PVC EDGE TRIM

EPDM stands for "Ethylene Propylene Diene Monomer" in which density can vary slightly. Our EPDM edge trims are a great solution for anyone looking to cover a sharp edge or improve aesthetics on any project. EPDM edge trims are fastened via "push in" or "push on" applications to more complicated engineered designs with clips and bulbs included. Choose from our selection of standard EPDM edge trim seals or contact an engineer for a custom application today! We look forward to serving you!

PVC stands for "Polyvinyl Chloride." Our PVC edge trims are a great solution for anyone looking to cover a sharp edge or improve esthetics on any project. PVC edge trims can vary from simple "push in" or "push on" seals to more complicated engineered designs with clips and bulbs included. Choose from our large selection of standard PVC edge trim seals or contact an engineer for a custom application today! We look forward to serving you!

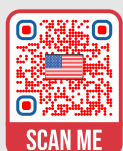
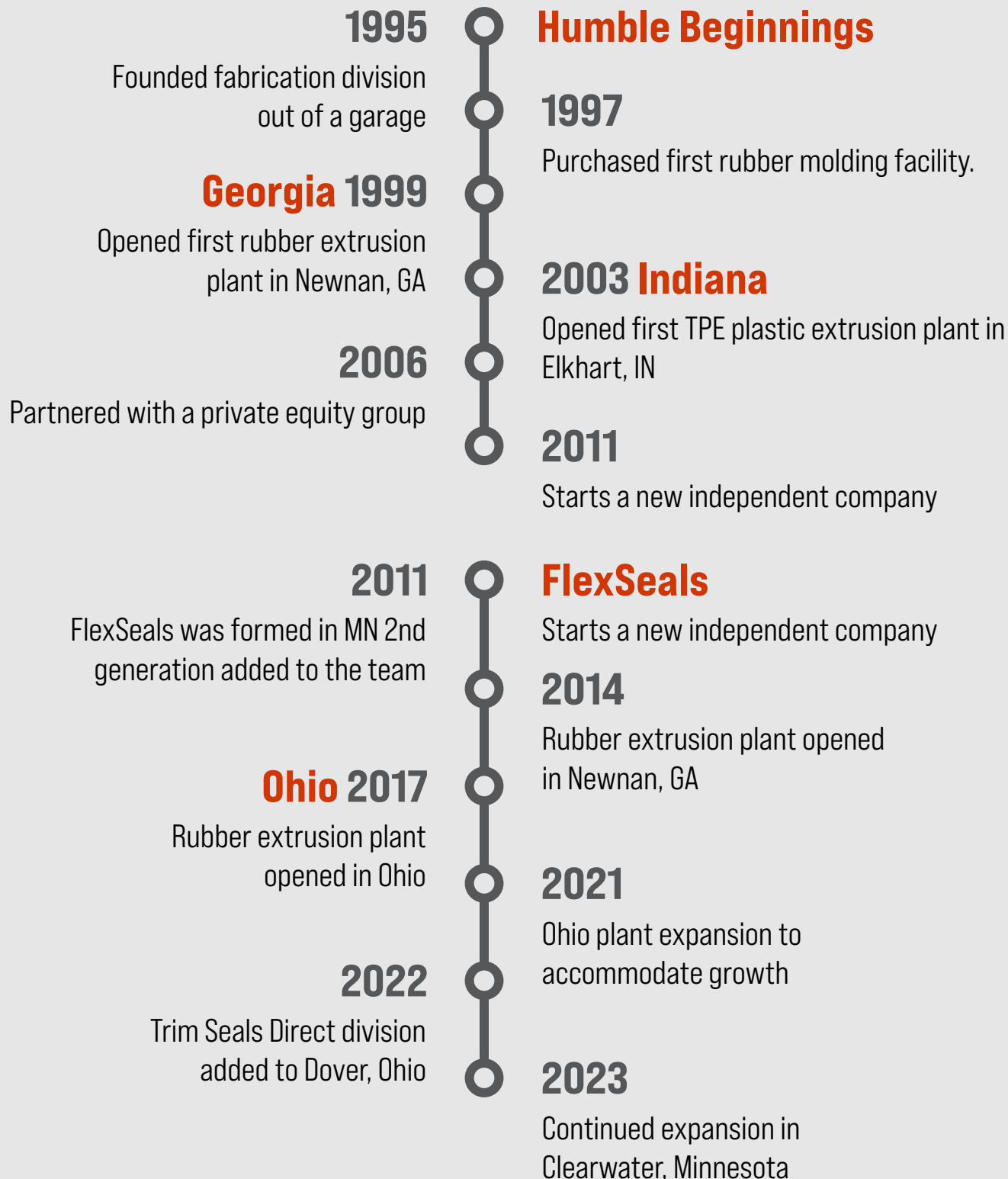


★ = STOCKED ITEM

★ PART NO. #3557 PVC  FLANGES 1mm-2mm	★ PART NO. #3095 EPDM  FLANGES 1.5mm - 3mm	★ PART NO. #3139 PVC  FLANGES .5mm - 2mm	★ PART NO. #3081 PVC  FLANGES 3mm-4mm
★ PART NO. #3093 EPDM  FLANGES 3mm - 7mm	★ PART NO. #3094 EPDM  FLANGES 7mm - 10mm	★ PART NO. #3082 PVC  FLANGES 3mm - 4mm	★ PART NO. #3029 PVC  FLANGES 1.5mm - 3mm

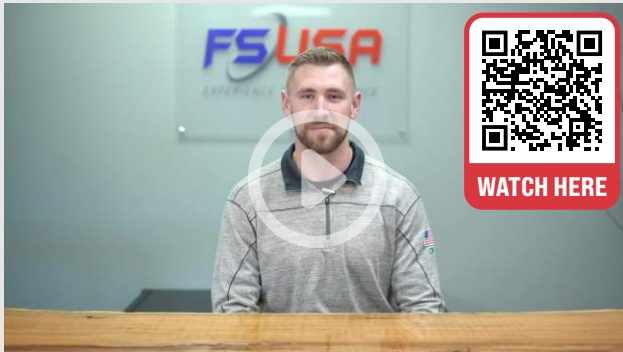
OUR STORY

LEADING THE INDUSTRY SINCE 1995



VIDEO ARCHIVE

WHO WE ARE



TRIM SEALS DIRECT



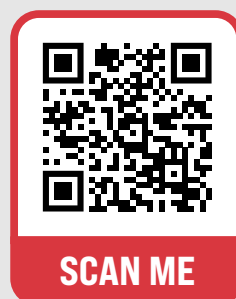
RELATIONSHIPS MATTER



CHRISTMAS



FIND OUT MORE



GREAT PEOPLE PROVIDING HIGH QUALITY PARTS ON TIME, EVERY TIME.



FS USA DIFFERENCE

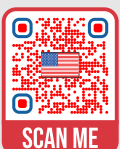
1. Engineering and Design Support
2. Proudly Manufacturing In the USA
3. We Manufacture all Types of Extruded Solutions
 - a. Rubber, Plastic, Single Durometer, Multiple Durometer, Wire & Metal Encapsulated, Framing, Gluing, & Finishing
4. Largest Standard Tooling Catalog in the Industry
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