

# EXTREME METAL WORKS

Product Catalog  
2023

6252 Monroe Blvd. Taylor, MI 48180

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# Introduction



Here at Extreme Metal Works, we can meet all of your demands for custom ductwork, with over 300+ fitting and more. We provide FSK wrap and duct liner (if needed).

We have experience in fabrication and in the field for more than 30 years.

Our Goal is to simplify HVAC installs for all mechanical contractors while avoiding any confusion.

Because how many times have you had a fabricator make a mistake on a fitting?

(NOT SAYING WE'RE PERFECT) because we're not.

But we hope our product catalog helps you and your team.

In this catalog you may see some duplicates but its your point of view and measurements.

All S-Cleats & Drives come with your order.

We also make curb adapters, grease duct & chimney caps.

Any Questions Feel Free To Give Us A Call!!!

## Contact Us

**6252 Monroe Blvd. Taylor, MI 48180**

**Phone # Allen: (313) 205-9357 Or AJ: (313) 455-4752**

**Email: [extrememetalworksllc@gmail.com](mailto:extrememetalworksllc@gmail.com)**

### Summer Hours Of Operation

<b>Mon-Fri</b>	<b>7 a.m. – 3 p.m.</b>
<b>Sat</b>	<b>8 a.m. – 12 p.m.</b>
<b>Sun</b>	<b>Closed</b>

### Winter Hours Of Operation

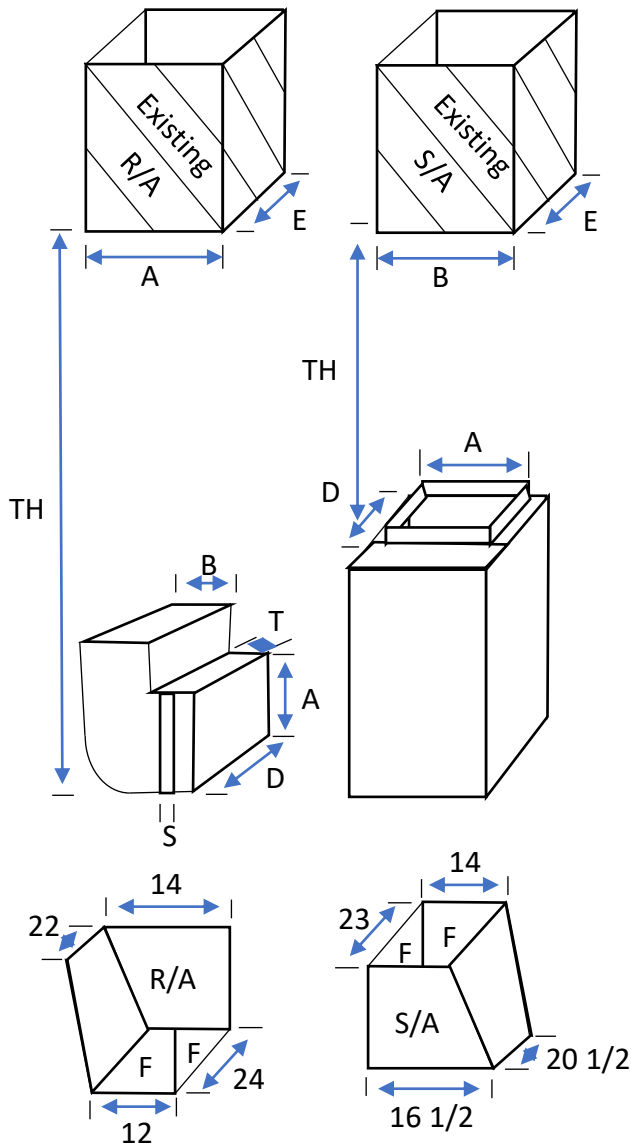
<b>Mon-Fri</b>	<b>7 a.m. – 4 p.m.</b>
<b>Sat</b>	<b>8 a.m. – 12 p.m.</b>
<b>Sun</b>	<b>Closed</b>



# Residential Example

## Residential Measurement Example

You Should Always Include An Inch For Connection (If You Measure To The Raw Edge)



So, Lets Start With The R/A

### Existing R/A Duct End 2

$A=14$

$E=22$

### Need For R/A

A Return Boot On Left Side That Fits A Common Size Filter And Transition BRF w/Canvas

### Size Of R/A Boot Left Side

$A=20$

$D=24$

$B=12$

$S=1''$

$T=6$

### Size Of Transition Two Side Flat (Back Right)

$A=14$

$E=22$

$B=12$

$D=24$

**Total Height For R/A w/Canvas 74''**

### Existing S/A Duct (End 2)

$B=14$

$E=23$

### Furnace/Coil Opening (End 1)

$A=16.5$

$D=20.5$

### Need For S/A

2 Side Flat Transition Hem Flange End 1 To Furnace w/Canvas Raw Top

### Size Of Transition Two Side Flat (Back Left)

$A=16.5$

$D=20.5$

$B=14$

$E=23$

**Total Height For S/A w/Canvas 16''**

# Residential Example

## Things That We Need To Know???

Fitting Product # \_\_\_\_\_

Sizes Labeled By Letters

A=                      B=                      D=                      E=  
 T=                      K=                      O=                      R=  
                                  L=                      H=                      S=

For All Elbows Need To Know The Angle 90 degree,45 etc.

**A x D Is Always End 1**

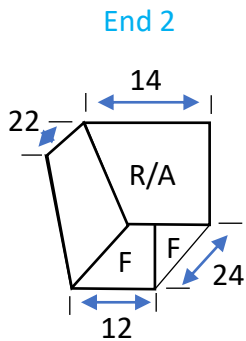
**If The Fitting Remains Square(No Change In Size)/B x E Is Always End 2**

### The Ends Of Your Finish Product

End 1 _____	S&D	1/2" Hem	1" Flange In/Out
End 2 _____	Raw	3/4" Flange	Your Choice

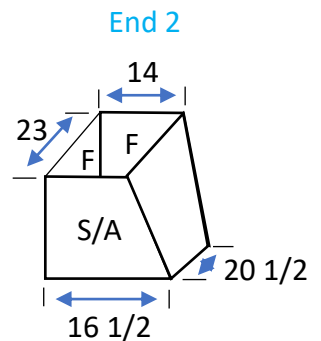
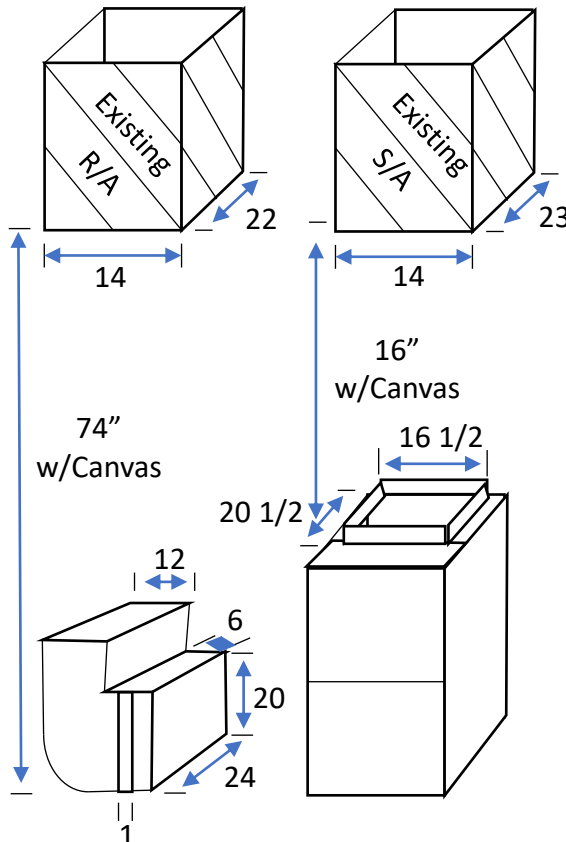
### If S&D What Sides Get Drives?

Point Of View Is Looking At Front Of Furnace



**End 1**

R/A Transition 6" Tall  
 End 1 - Drives on 12"  
 End 2 - Drives on 14"  
 Canvas 12 x 24  
 BRF



**End 1**

S/A Plenum Transition  
 End 1 - Hem Flange  
 End 2 - Drives on 14"  
 Canvas - Raw Top  
 BLF

# Furnace Boxes/Filter Boots

All Furnace Boxes and Filter Boots Come With A Code Complaint Filter Access Doors.

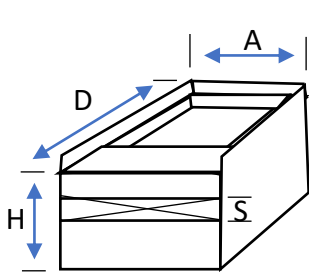
These Products Also Come With A Common Size Pleated Filter

Our Common Size Filters Are 14x20, 14x24, 16x20, 16x24, 16x25, 18x20, 20x20, 20x24, 20x25

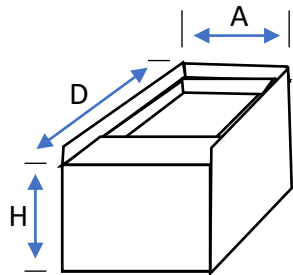
All By 1" Thick Filters

All Kryptonite Boxes Must Be A Min. Of 12" Tall Depending On Thickness Of Filter

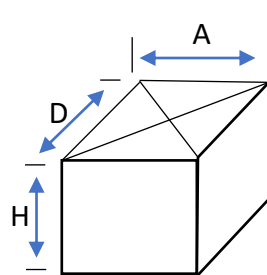
Note: F.O Means Furnace Opening



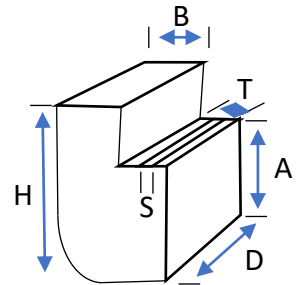
Furnace Box  
w/Filter Rack Closed  
Bottom/Flange Out/In  
Product # FBCBWR



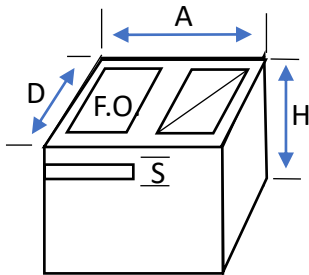
Furnace Box  
Closed Bottom/Flange  
Out/In  
Product # FBCB



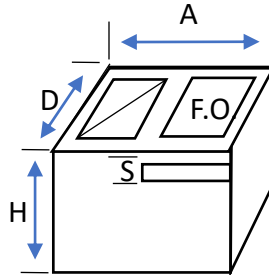
Closed  
Furnace Box  
Product # CFB



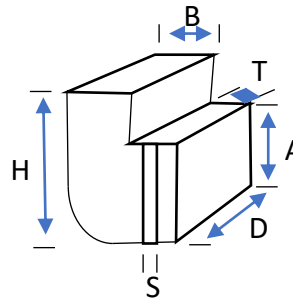
Top Slot  
Filter Boot  
Product # TSFB



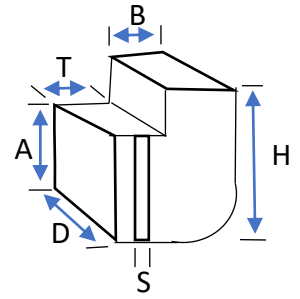
Kryptonite Box w/ Filter  
Rack and Opening For  
R/A Drop On The Right  
Product # KBWRROR



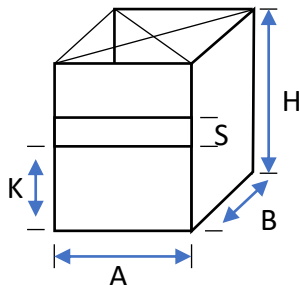
Kryptonite Box w/ Filter  
Rack and Opening For  
R/A Drop On The Left  
Product # KBWRROL



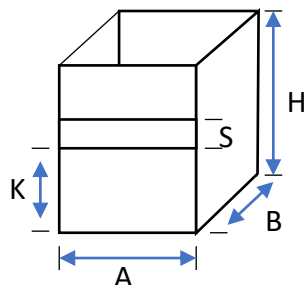
Left Hand  
Filter Boot  
Product # LHFB



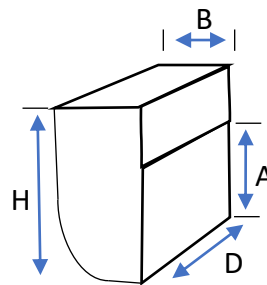
Right Hand  
Filter Boot  
Product # RHFB



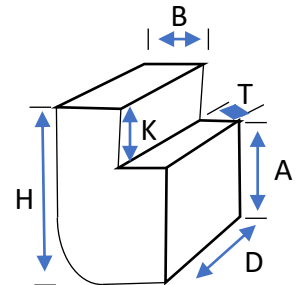
Filter Box w/Rack  
and Closed Top  
Product # FBWRCT



Filter Box  
w/Rack  
Product # FBWR



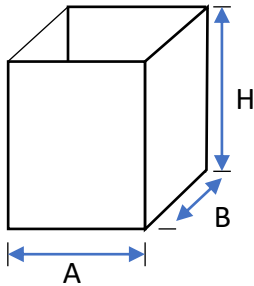
Media 90 Boot  
w/No Throat  
Product # MBNTAB



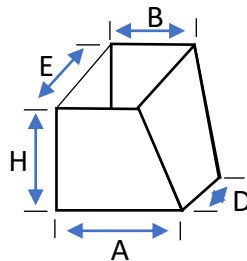
Media 90 Boot  
w/Throat  
Product # MBWTAB

# Plenum/Transitions

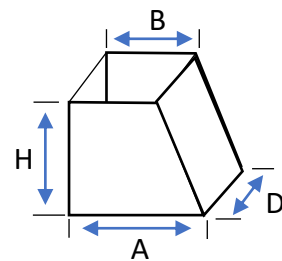
These Are The Most Common Fitting  
 The Images Are Drawn Vertical Like A Common Install  
 Now If Your Equipment Is Laying Horizontal Then Turn The Book 90 Degrees  
 Therefore, You Can Have A Better View  
 In Some Cases You May Need A Transition Made As A Furnace Box  
 Min. Height 3"



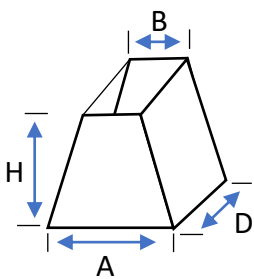
Square Plenum/Rtu Drop  
 A x D Both Ends  
 Product # SP



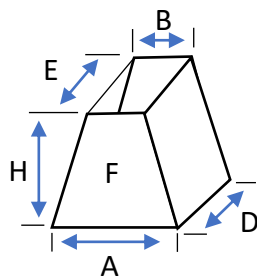
2 Side Flat Transition  
 Back Left/Back Right  
 Front Left/Front Right  
 A x D – B x E  
 Product # 2SFT



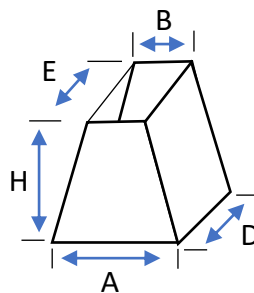
3 Side Flat  
 Transition  
 A x D – B x D  
 Product # 3SFT



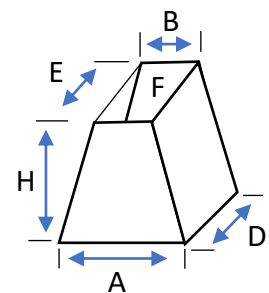
Center Line  
 Transition  
 A x D – B x D  
 Product # CLTD



Center Line  
 Transition Front Flat  
 A x D – B x E  
 Product # CLTFF



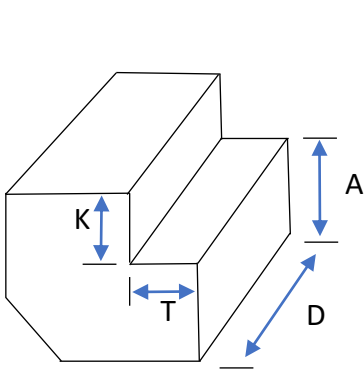
Center Line  
 All Around Transition  
 A x D – B x E  
 Product # CLTAB



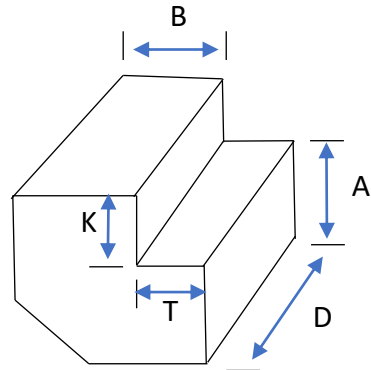
Center Line  
 Transition Back Flat  
 A x D – B x E  
 Product # CLTBF

# Beveled Heel Square Throats Elbows

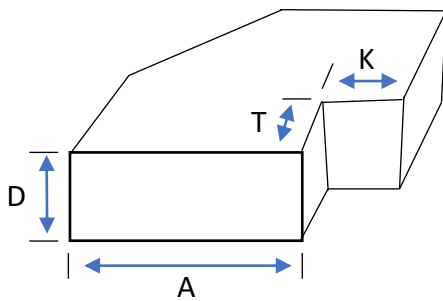
These Are Common For Black Steel Fitting For Commercial Hoods  
 We Can Make This A Filter Boot If You Like This Style Of The Fitting



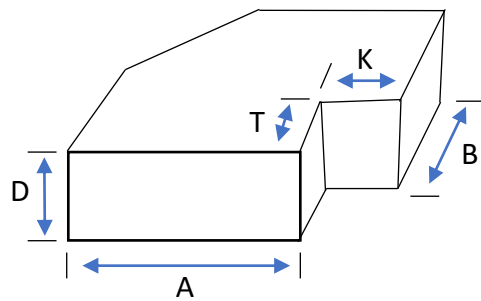
Beveled Heel Square Throat  
 Vertical Elbow  
 A x D Both Ends  
 Product # BHSTVE



Beveled Heel Square Throat  
 Vertical Elbow  
 A x D – B x D  
 Product # BHDTVED



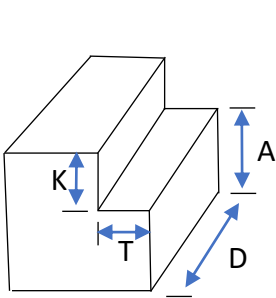
Beveled Heel Square Throat  
 Horizontal Elbow  
 A x D – B x D  
 Product # BHSTHE



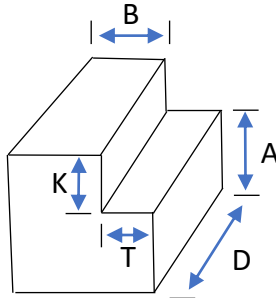
Beveled Heel Square Throat  
 Horizontal Elbow  
 A x D – B x D  
 Product # BHSTHED

# Square Heel Square Throat Elbows

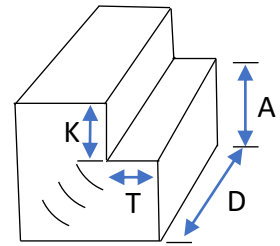
Square Heel Elbows Are Usually For R/A  
 The One's w/Turning Veins Are For S/A On Big Commercial Jobs  
 But The Cost Will Be More Compared To A Radius Heel  
 You May Need A Square Heel Elbow For A Furnace To Sit On



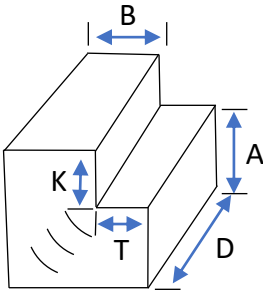
Square Heel Square Throat  
 Vertical Elbow  
 A x D Both Ends  
 Product # SHSTVE



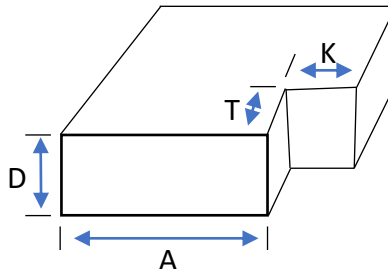
Square Heel Square Throat  
 Vertical Elbow  
 A x D - B x D  
 Product # SHSTVED



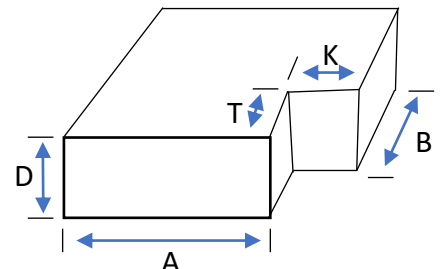
Square Heel Square Throat  
 Vertical Elbow  
 w/ Turning Vanes  
 A x D Both Ends  
 Product # SHSTVETV



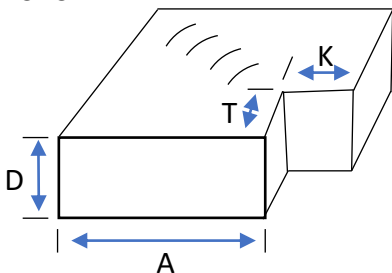
Square Heel Square Throat  
 Vertical Elbow  
 w/ Turning Vanes  
 A x D - B x D  
 Product # SHSTVETVD



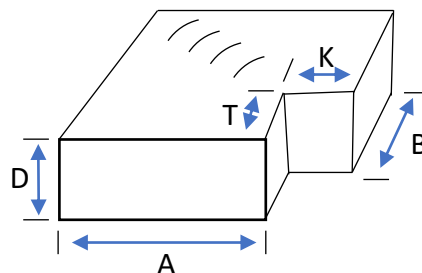
Square Heel Square Throat  
 Horizontal Elbow  
 A x D Both Ends  
 Product # SHSTHE



Square Heel Square Throat  
 Horizontal Elbow  
 A x D - B x D  
 Product # SHSTHED



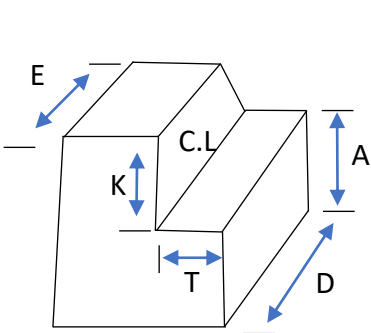
Square Heel Square Throat  
 Horizontal Elbow  
 w/ Turning Vanes  
 A x D Both Ends  
 Product # SHSTHETV



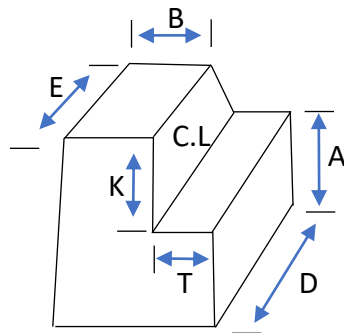
Square Heel Square Throat  
 Horizontal Elbow  
 w/ Turning Vanes  
 A x D - B x D  
 Product # SHSTHETVD

# Square Heel Square Throat Vertical Elbows

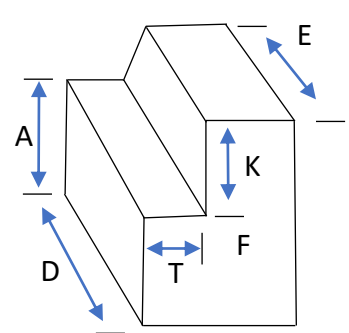
These Are Specialty Square Heel Vertical Elbows  
Center Line, Right Cheek Flat, Left Cheek Flat



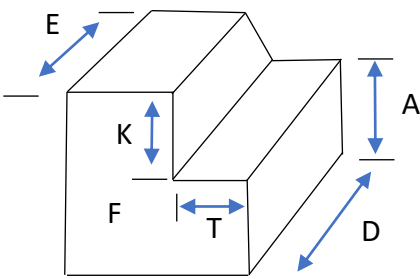
Square Heel Square Throat  
Vertical Center Line Elbow  
 $A \times D - A \times E$   
Product # SHSTVCLEA



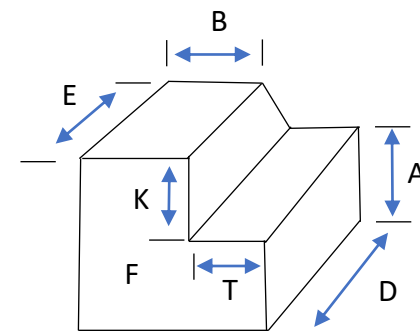
Square Heel Square Throat  
Vertical Center Line Elbow  
 $A \times D - B \times E$   
Product # SHSTVCLEAB



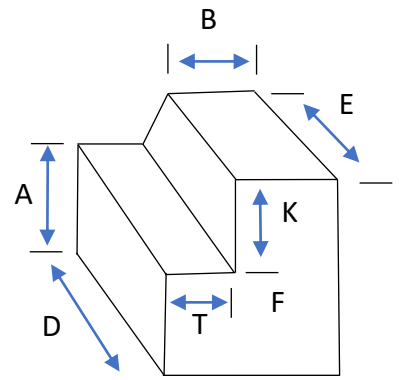
Square Heel Square Throat  
Vertical Elbow  
Right Side Flat  
 $A \times D - A \times E$   
Product # SHSTVERSFA



Square Heel Square Throat  
Vertical Elbow  
Left Side Flat  
 $A \times D - A \times E$   
Product # SHSTVELSFA



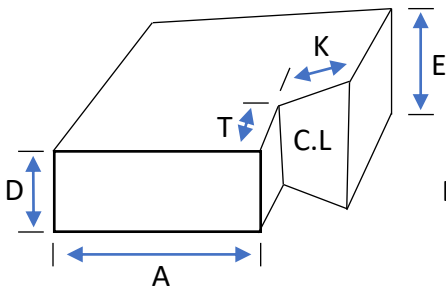
Square Heel Square Throat  
Vertical Elbow  
Left Side Flat  
 $A \times D - B \times E$   
Product # SHSTVELSFAB



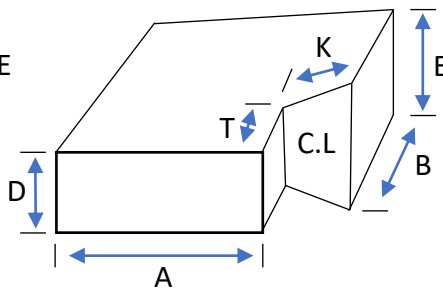
Square Heel Square Throat  
Vertical Elbow  
Right Side Flat  
 $A \times D - B \times E$   
Product # SHSTVERSFAB

# Square Heel Square Throat Horizontal Elbows

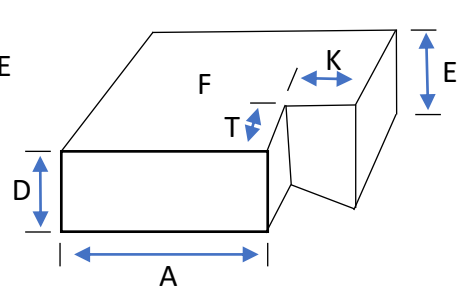
These Are Specialty Square Heel Horizontal Elbows  
Center Line, Right Cheek Flat, Left Cheek Flat



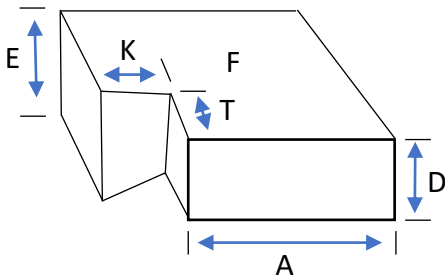
Square Heel Square Throat  
Horizontal  
Center Line Elbow  
 $A \times D - A \times E$   
Product # SHSTHCLEA



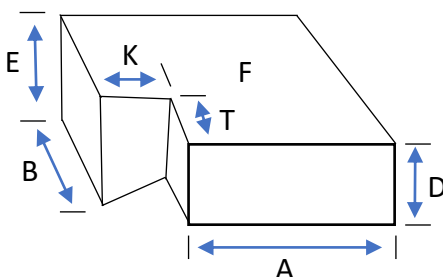
Square Heel Square Throat  
Horizontal  
Center Line Elbow  
 $A \times D - B \times E$   
Product # SHSTHCLEAB



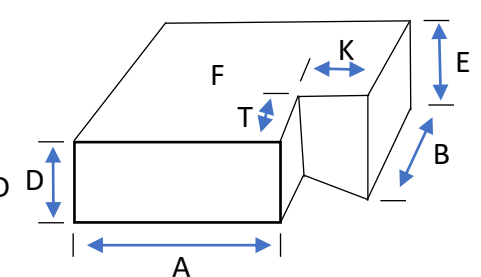
Square Heel Square Throat  
Horizontal Elbow  
Left Side Flat  
 $A \times D - A \times E$   
Product # SHSTHELSFA



Square Heel Square Throat  
Horizontal Elbow  
Right Side Flat  
 $A \times D - A \times E$   
Product # SHSTHERSFA



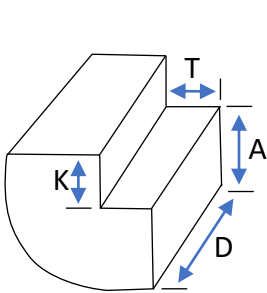
Square Heel Square Throat  
Horizontal Elbow  
Right Side Flat  
 $A \times D - B \times E$   
Product # SHSTHERSFAB



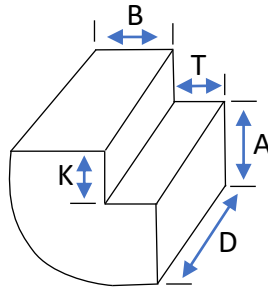
Square Heel Square Throat  
Horizontal Elbow  
Left Side Flat  
 $A \times D - B \times E$   
Product # SHSTHELSFAB

# Radius Heel Square Throat Vertical Elbows

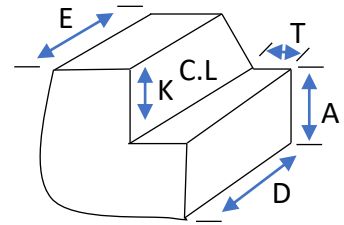
These Are Specialty Radius Heel Square Throat Vertical Elbows  
Common Verticals, Center Line, Right Cheek Flat, Left Cheek Flat



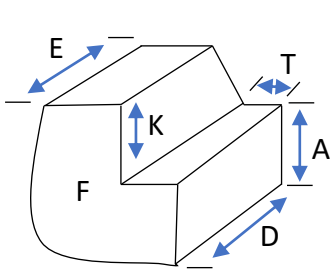
Radius Heel Square Throat Vertical Elbow  
A x D Both Ends  
Product # RHSTVE



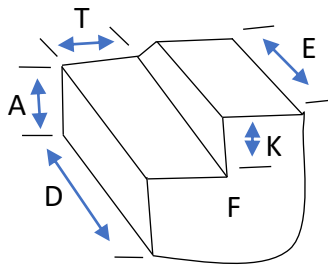
Radius Heel Square Throat Vertical Elbow  
A x D - B x D  
Product # RHSTVED



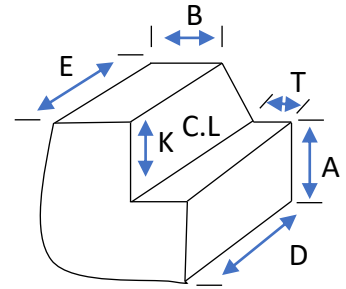
Radius Heel Square Throat Vertical Center Line Elbow  
A x D - A x E  
Product # RHSTVCLEA



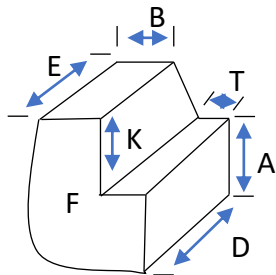
Radius Heel Square Throat Vertical Elbow  
Left Side Flat  
A x D - A x E  
Product # RHSTVELSFA



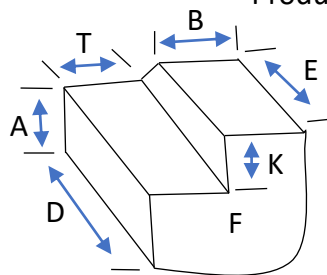
Radius Heel Square Throat Vertical Elbow  
Right Side Flat  
A x D - A x E  
Product # RHSTVERSFA



Radius Heel Square Throat Vertical Center Line Elbow  
A x D - B x E  
Product # RHSTVCLEAB



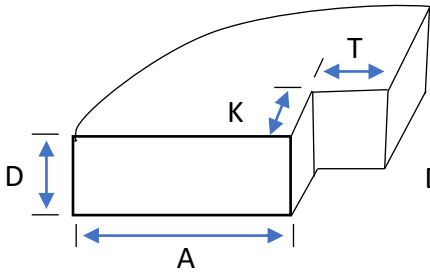
Radius Heel Square Throat Vertical Elbow  
Left Side Flat  
A x D - B x E  
Product #  
RHSTVELSFAB



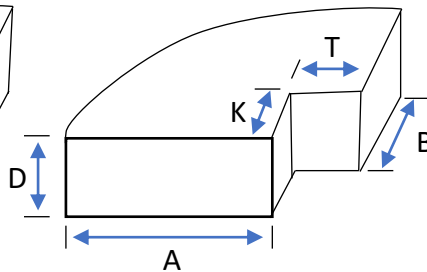
Radius Heel Square Throat Vertical Elbow  
Right Side Flat  
A x D - B x E  
Product #  
RHSTVERSFAB

# Radius Heel Square Throat Horizontal Elbows

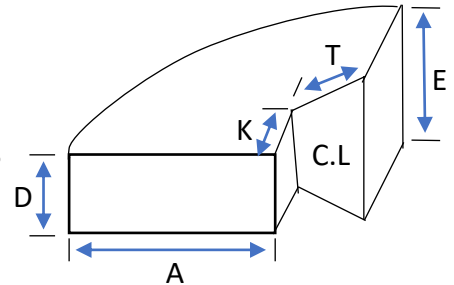
These Are Specialty Radius Heel Square Throat Horizontal Elbows  
Common Verticals, Center Line, Right Cheek Flat, Left Cheek Flat



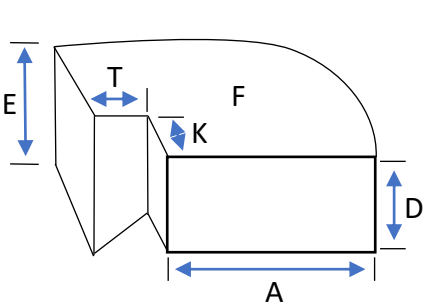
Radius Heel Square Throat  
Horizontal Elbow  
A x D Both Ends  
Product # RHSTHE



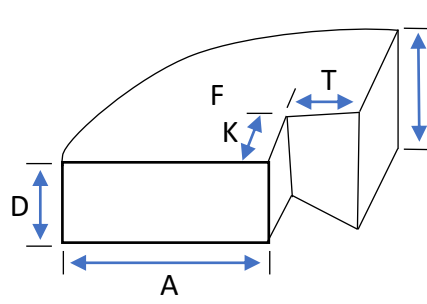
Radius Heel Square Throat  
Horizontal Elbow  
A x D Both Ends  
Product # RHSTHED



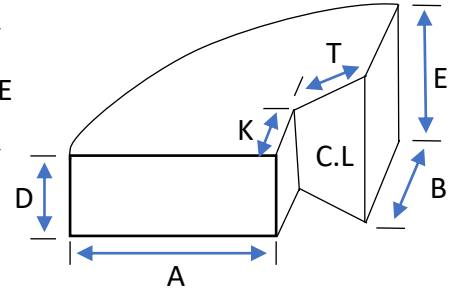
Radius Heel Square Throat  
Horizontal Center Line Elbow  
A x D - A x E  
Product # RHSTHCLEA



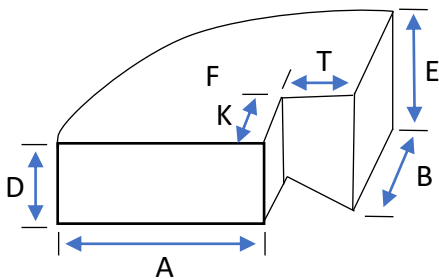
Radius Heel Square Throat  
Horizontal Elbow  
Right Side Flat  
A x D - A x E  
Product # RHSTRSFHERSFA



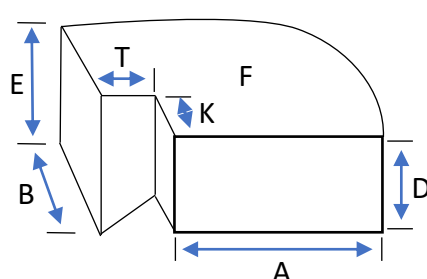
Radius Heel Square Throat  
Horizontal Elbow  
Left Side Flat  
A x D - A x E  
Product # RHSTHELSFA



Radius Heel Square Throat  
Horizontal Center Line Elbow  
A x D - B x E  
Product # RHSTHCLEAB



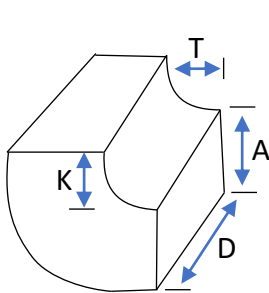
Radius Heel Square Throat  
Horizontal Elbow  
Left Side Flat  
A x D - B x E  
Product # RHSTHELSEFAB



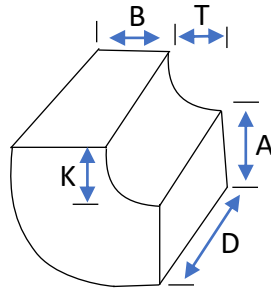
Radius Heel Square Throat  
Horizontal Elbow  
Right Side Flat  
A x D - B x E  
Product # RHSTHERSFAB

# Radius Heel Radius Throat Vertical Elbows

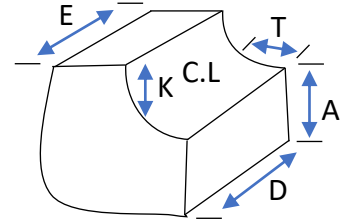
**These Are Specialty Radius Heel Radius Throat Vertical Elbows  
Common Verticals, Center Line, Right Cheek Flat, Left Cheek Flat**



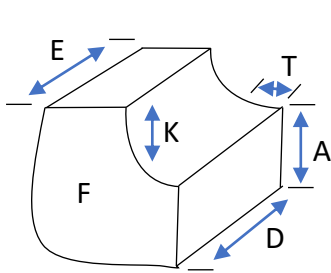
Radius Heel Radius Throat  
Vertical Elbow  
 $A \times D$  Both Ends  
Product # RHRTVE



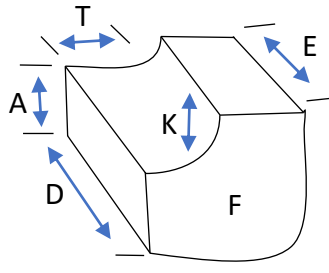
Radius Heel Radius Throat  
Vertical Elbow  
 $A \times D - B \times D$   
Product # RHRTVED



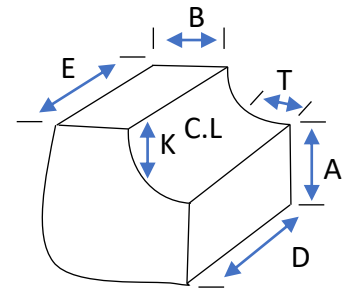
Radius Heel Radius  
Throat Vertical  
Center Line Elbow  
 $A \times D - A \times E$   
Product # RHRTVCLEA



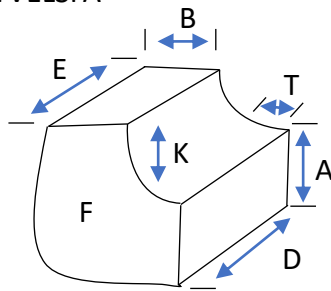
Radius Heel Radius  
Throat Vertical Elbow  
Left Side Flat  
 $A \times D - A \times E$   
Product # RHRTVELSFA



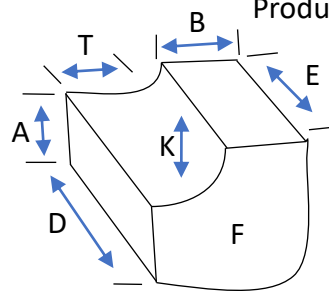
Radius Heel Radius  
Throat Vertical Elbow  
Right Side Flat  
 $A \times D - A \times E$   
Product # RHRTVERSFA



Radius Heel Radius  
Throat Vertical  
Center Line Elbow  
 $A \times D - B \times E$   
Product # RHRTVCLEAB



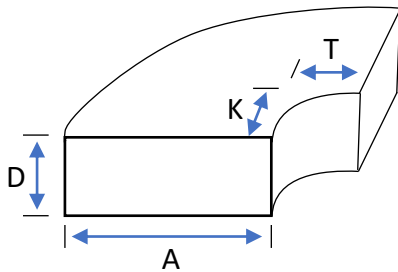
Radius Vertical Elbow  
Left Side Flat  
 $A \times D - B \times E$   
Product # RHRTVELSFAB



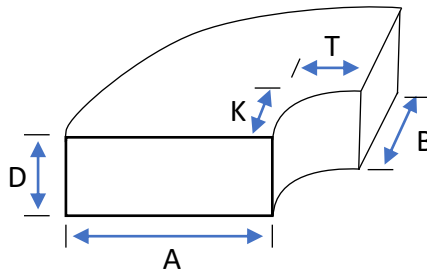
Radius Vertical Elbow  
Right Side Flat  
 $A \times D - B \times E$   
Product # RHRTVERSFAB

# Radius Heel Radius Throat Horizontal Elbows

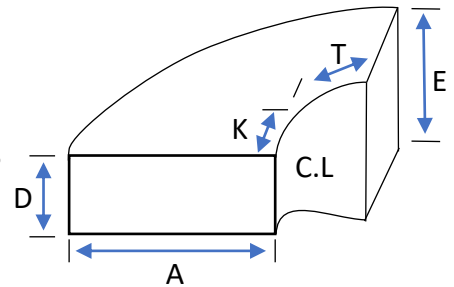
These Are Specialty Radius Heel Square Throat Horizontal Elbows  
Common Verticals, Center Line, Right Cheek Flat, Left Cheek Flat



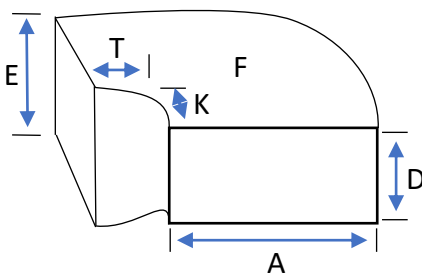
Radius Heel Radius Throat  
Horizontal Elbow  
A x D Both Ends  
Product # RHRTHE



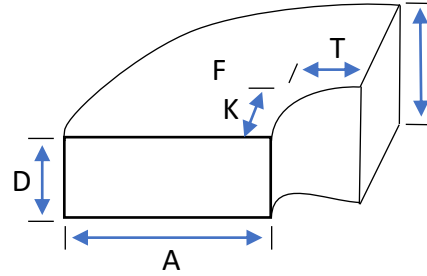
Radius Heel Radius Throat  
Horizontal Elbow  
A x D - B x D  
Product # RHRTHED



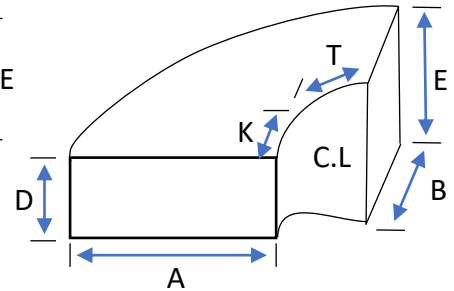
Radius Heel Radius Throat  
Horizontal  
Center Line Elbow  
A x D - A x E  
Product # RBRTHCLEA



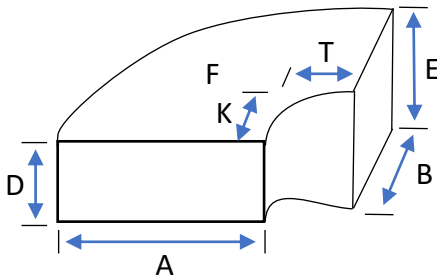
Radius Heel Radius Throat  
Horizontal Elbow  
Right Side Flat  
A x D - A x E  
Product # RHRTHERSFA



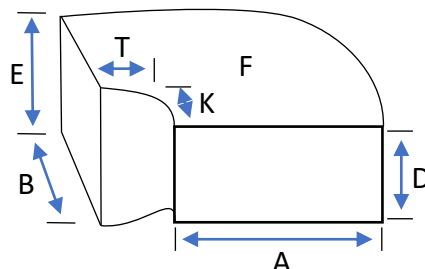
Radius Heel Radius Throat  
Horizontal Elbow  
Left Side Flat  
A x D - A x E  
Product # RHRTHELSFA



Radius Heel Radius Throat  
Horizontal Center Line Elbow  
A x D - B x E  
Product # RHRTHCLEAB



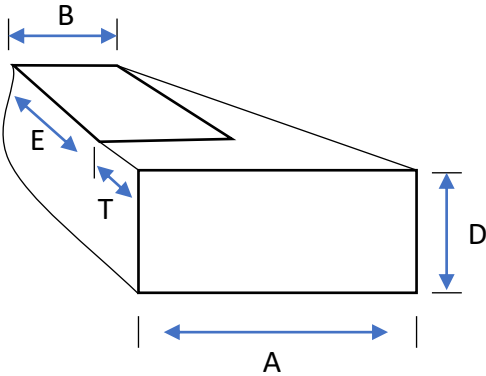
Radius Heel Radius Throat  
Horizontal Elbow  
Left Side Flat  
A x D - B x E  
Product # RHRTHELSFAB



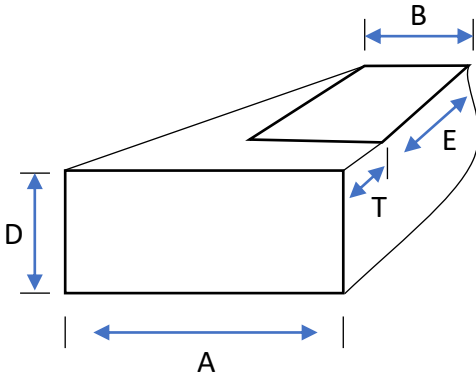
Radius Heel Radius Throat  
Horizontal Elbow  
Right Side Flat  
A x D - B x E  
Product # RHRTHERSFAB

# Goldberg/Hess Fittings

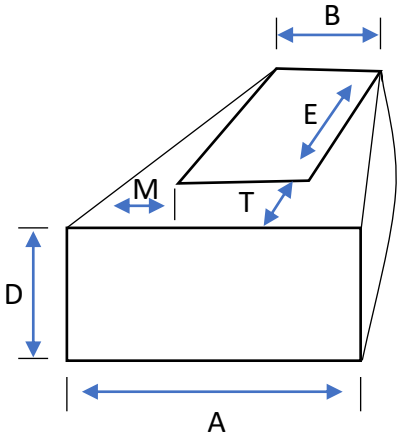
Hess Fittings Have A Radius Heel & Zero Throat On B x E  
 A Has To Be Greater Than B



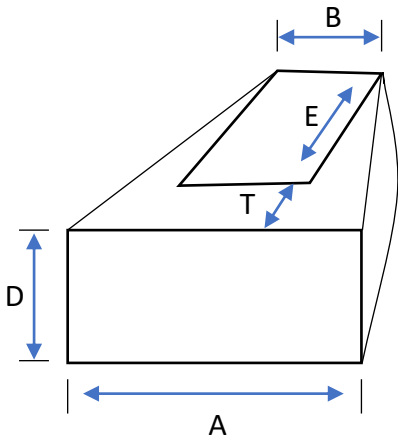
Left Side Flat Hess 90  
 Product # LSFHESS



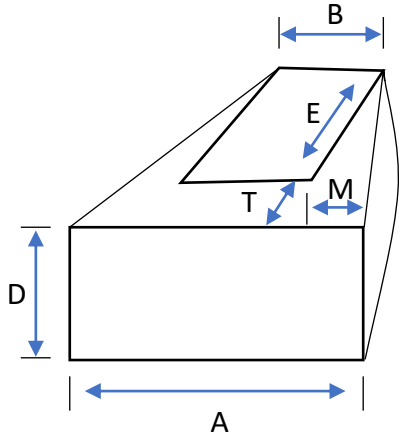
Right Side Flat Hess 90  
 Product # RSFHESS



Hess 90  
 Measured From Left Side  
 Product # HESSOL



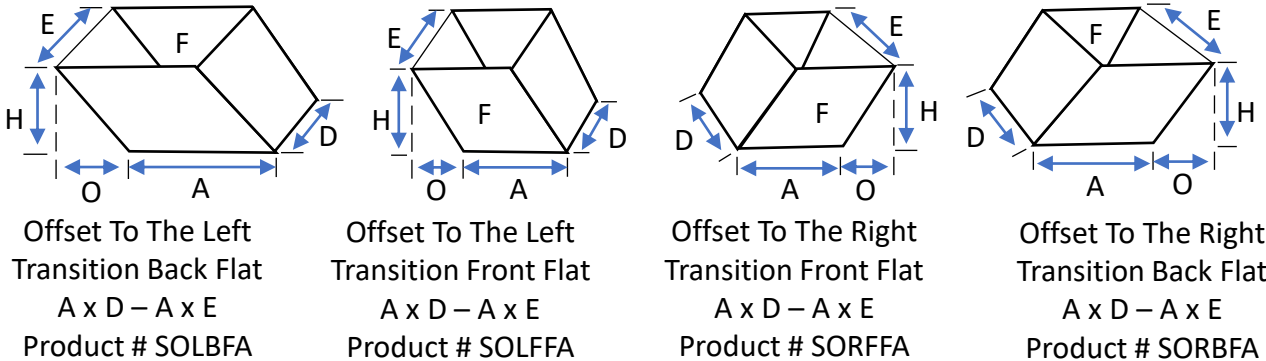
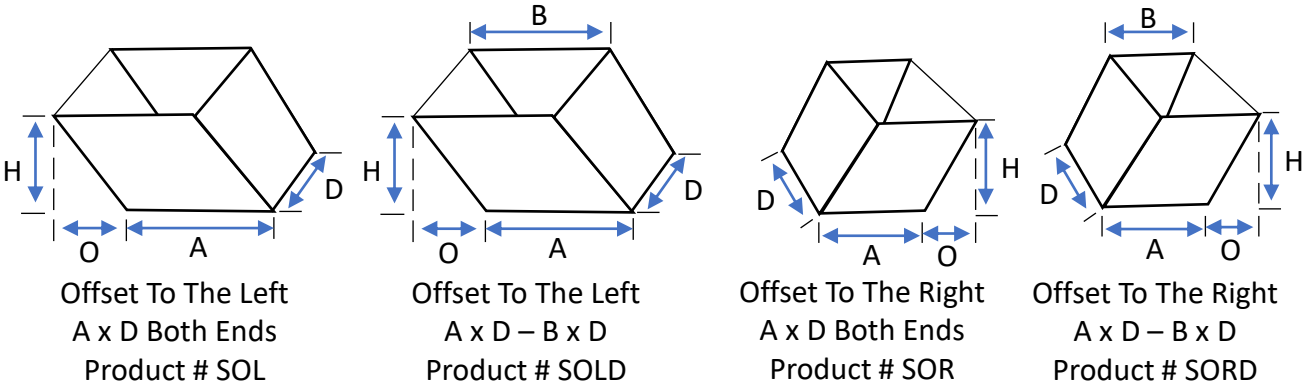
Center Line Hess 90  
 Product # CLHESS



Hess 90  
 Measured From Right Side  
 Product # HESSOR

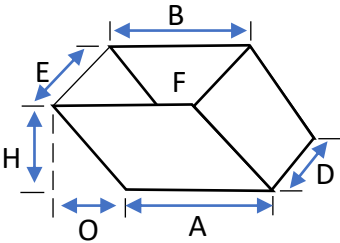
# Square Offsets/Transitions

These Offset Transitions Don't Matter On Height  
 These Fittings Can Be A Min. Of 4" & May Restrict Air Flow

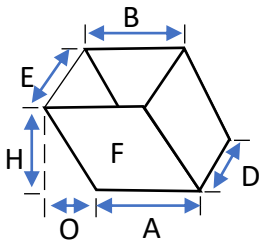


# Square Offsets/Transitions

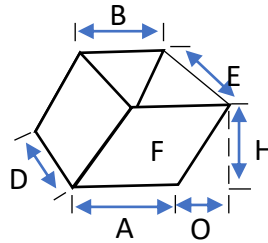
These Offset Transitions Don't Matter On Height  
 These Fittings Can Be A Min. Of 4" & May Restrict Air Flow



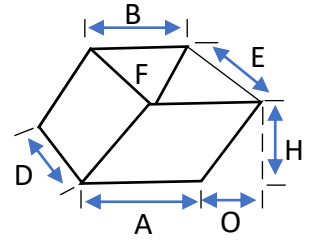
Offset To The Left  
 Transition Back Flat  
 $A \times D - B \times E$   
 Product # SOLBFAB



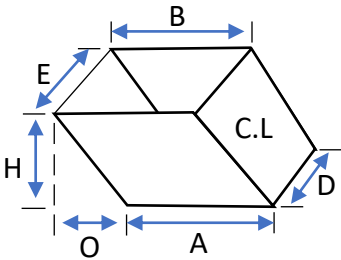
Offset To The Left  
 Transition Front Flat  
 $A \times D - B \times E$   
 Product # SOLFFAB



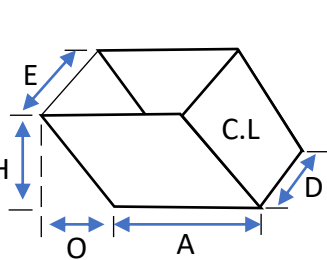
Offset To The Right  
 Transition Front Flat  
 $A \times D - B \times E$   
 Product # SORFFAB



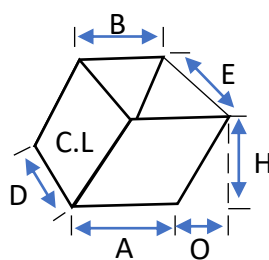
Offset To The Right  
 Transition Back Flat  
 $A \times D - B \times E$   
 Product # SORBFAB



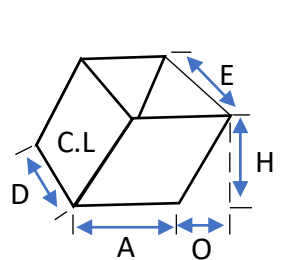
Offset To The Left  
 Center Line  
 $A \times D - B \times E$   
 Product # SOLCLAB



Offset To The Left  
 Center Line  
 $A \times D - A \times E$   
 Product # SOLCLA



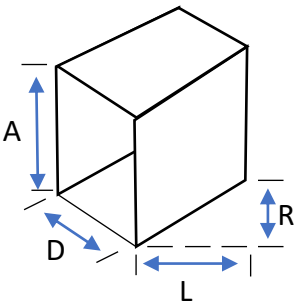
Offset To The Right  
 Center Line  
 $A \times D - B \times E$   
 Product # SORCLAB



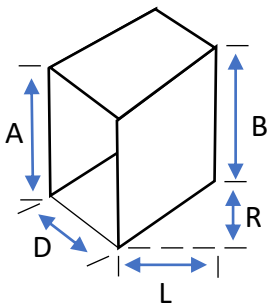
Offset To The Right  
 Center Line  
 $A \times D - B \times E$   
 Product # SORCLA

# Square Risers/Transitions

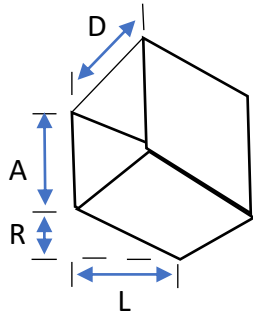
**These Offset Transitions Don't Matter On Length  
 These Fittings Can Be A Min. Of 4" & May Restrict Air Flow**



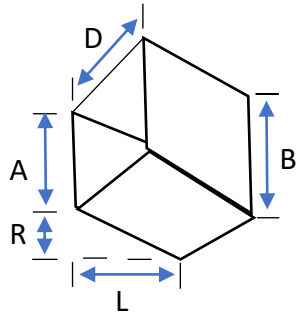
Rise Up  
 A x D Both Ends  
 Product # SRU



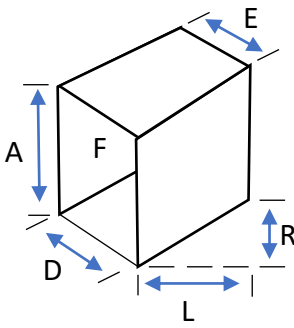
Rise Up  
 A x D - B x D  
 Product # SRUD



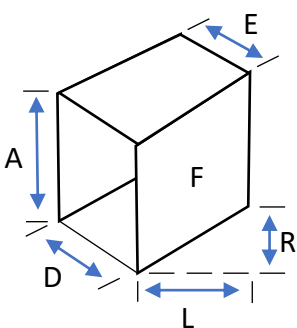
Rise Down  
 A x D Both Ends  
 Product # SRD



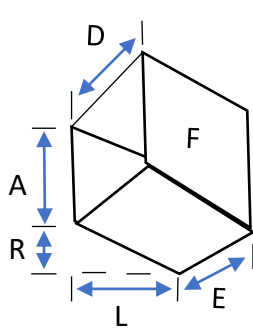
Rise Down  
 A x D - B x D  
 Product # SRDD



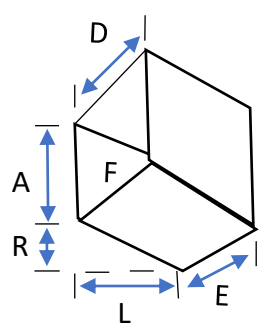
Rise Up  
 Back Flat  
 A x D - A x E  
 Product # SRUBFA



Rise Up  
 Front Flat  
 A x D - A x E  
 Product # SRUFFA



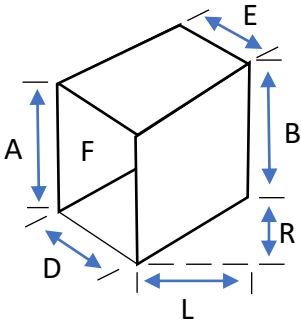
Rise Down  
 Front Flat  
 A x D - A x E  
 Product # SRDFFA



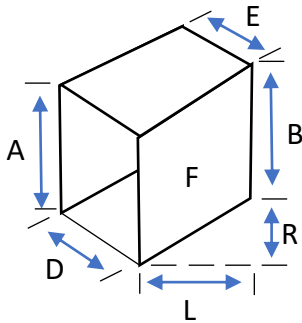
Rise Down  
 Back Flat  
 A x D - A x E  
 Product # SRDBFA

# Square Risers/Transitions

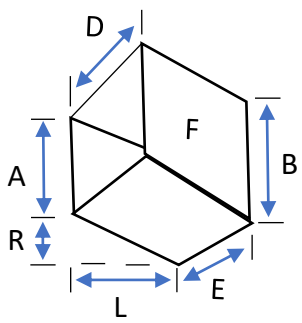
**These Offset Transitions Don't Matter On Length  
These Fittings Can Be A Min. Of 4" & May Restrict Air Flow**



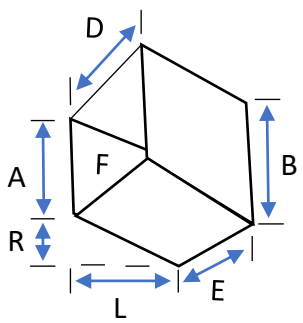
Rise Up  
Back Flat  
 $A \times D - B \times E$   
Product # SRUBFAB



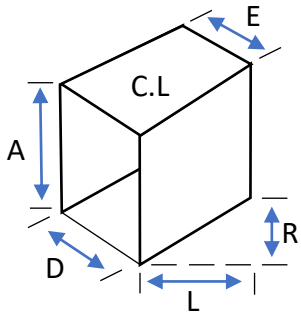
Rise Up  
Front Flat  
 $A \times D - B \times E$   
Product # SRUFFAB



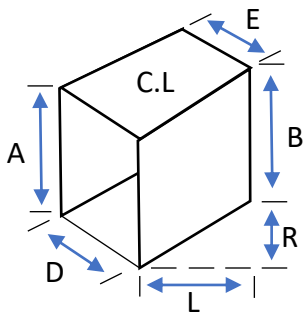
Rise Down  
Front Flat  
 $A \times D - B \times E$   
Product # SRDFFAB



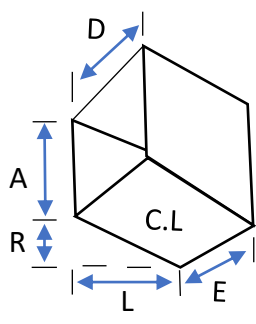
Rise Down  
Back Flat  
 $A \times D - B \times E$   
Product # SRDBFAB



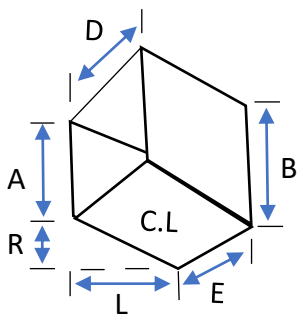
Rise Up  
Center Line  
 $A \times D - A \times E$   
Product # SRUCLA



Rise Up  
Center Line  
 $A \times D - B \times E$   
Product # SRUCLAB



Rise Down  
Center Line  
 $A \times D - A \times E$   
Product # SRDCLA



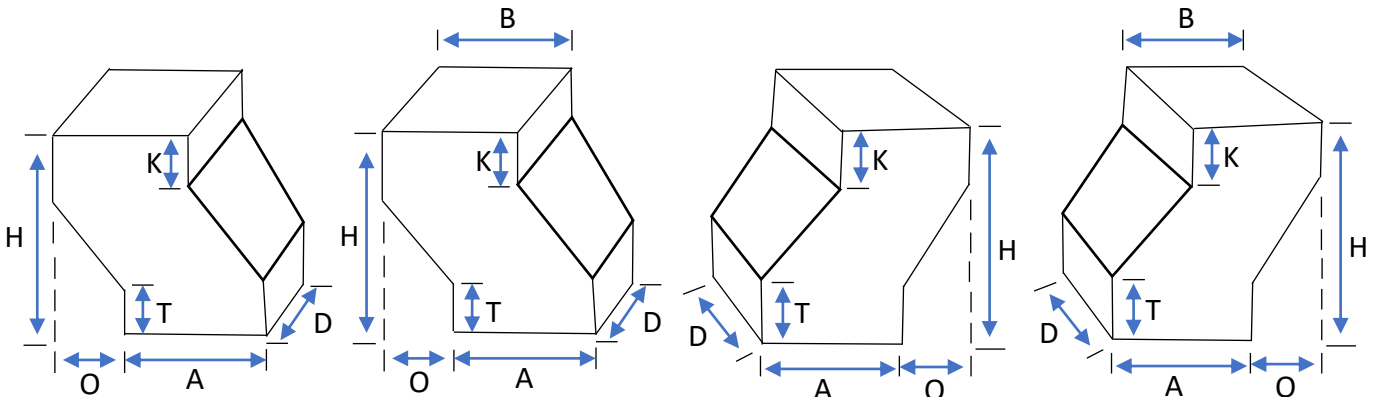
Rise Down  
Center Line  
 $A \times D - B \times E$   
Product # SRDCLAB

# Square Offsets/Transitions w/ Throats

For Minimum Height It Will Be  $A + \text{Throats} + 2$ .

So For An Example  $A = 20''$  w/6 x 0 Throat The Fitting Would Be a Minimum Of 28''.

Now If A Changes It Will Be Based Off The Greater Number Between A & B.

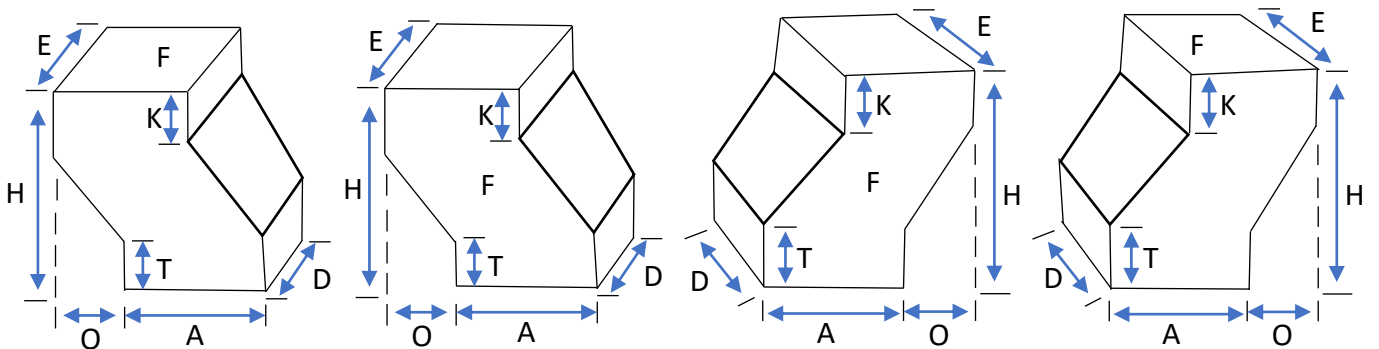


Square Offset  
w/Throat To The Left  
 $A \times D$  Both Ends  
Product # STOL

Square Offset  
w/Throat To The Left  
 $A \times D - B \times D$   
Product # STOLD

Square Offset  
w/Throat To The Right  
 $A \times D$  Both Ends  
Product # STOR

Square Offset  
w/Throat To The Right  
 $A \times D - B \times D$   
Product # STORD



Square Offset w/Throat  
To The Left Back Flat  
 $A \times D - A \times E$   
Product # STOLBFA

Square Offset w/Throat  
To The Left Front Flat  
 $A \times D - A \times E$   
Product # STOLFFA

Square Offset w/Throat  
To The Right Front Flat  
 $A \times D - A \times E$   
Product # STORFFA

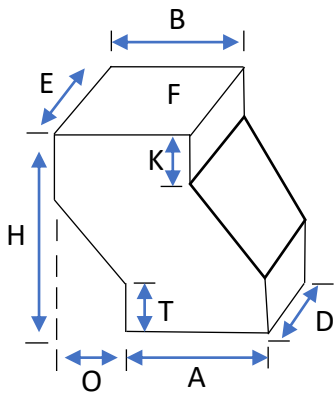
Square Offset w/Throat  
To The Right Back Flat  
 $A \times D - A \times E$   
Product # STORBFA

# Square Offsets/Transitions w/ Throats

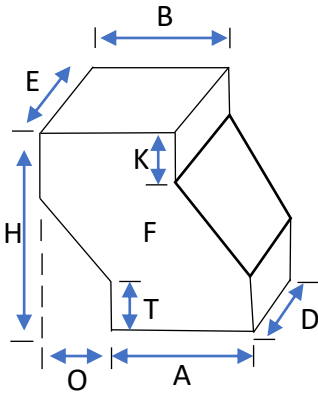
For Minimum Height It Will Be  $A + \text{Throats} + 2$ .

So For An Example  $A = 20''$  w/  $6 \times 0$  Throat The Fitting Would Be a Minimum Of  $28''$ .

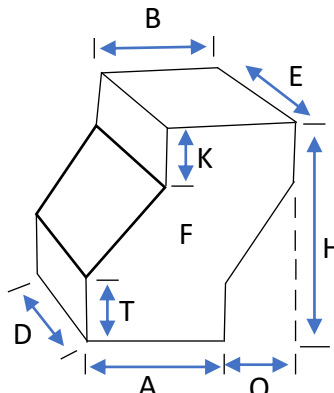
Now If A Changes It Will Be Based Off The Greater Number Between A & B.



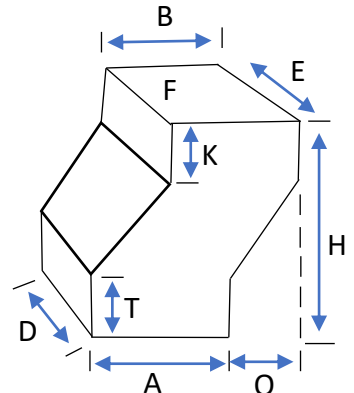
Square Offset w/Throat  
To The Left Back Flat  
 $A \times D - B \times E$   
Product # STOLBFAB



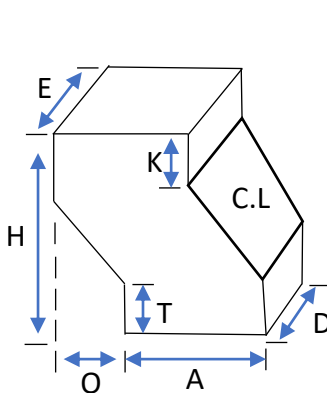
Square Offset w/Throat  
To The Left Front Flat  
 $A \times D - B \times E$   
Product # STOLFFAB



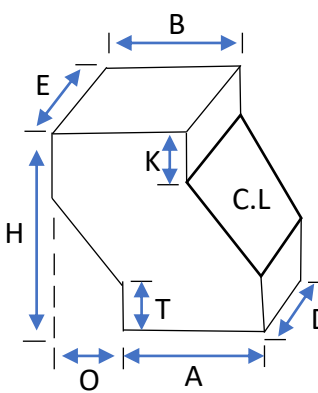
Square Offset w/Throat  
To The Right Front Flat  
 $A \times D - B \times E$   
Product # STORFFAB



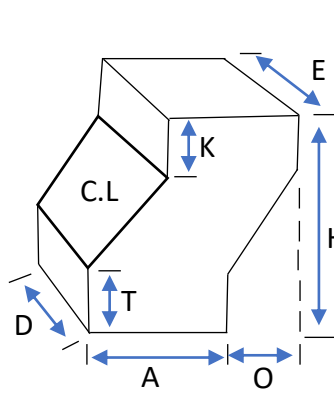
Square Offset w/Throat  
To The Right Back Flat  
 $A \times D - B \times E$   
Product # STORBFAB



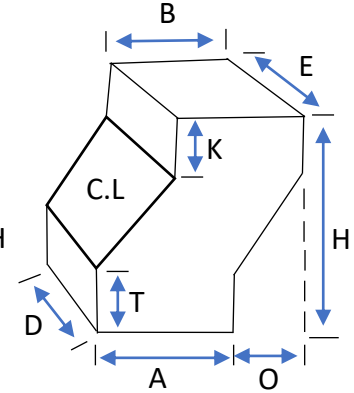
Square Offset w/Throat  
To The Left Center Line  
 $A \times D - A \times E$   
Product # STOLCLA



Square Offset w/Throat  
To The Left Center Line  
 $A \times D - B \times E$   
Product # STOLCLAB



Square Offset w/Throat  
To The Right Center Line  
 $A \times D - B \times E$   
Product # STORCLA



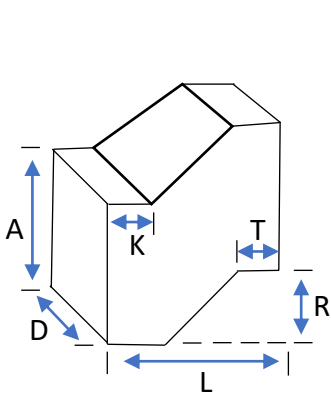
Square Offset w/Throat  
To The Right Center Line  
 $A \times D - B \times E$   
Product # STORCLAB

# Square Riser/Transitions w/ Throats

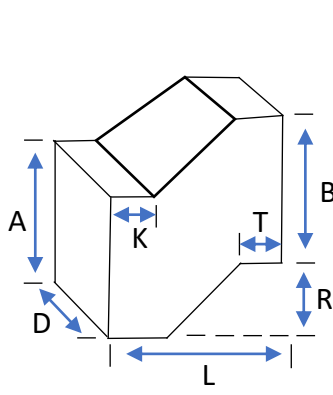
For Minimum Length It Will Be  $A + \text{Throats} + 2$ .

So For An Example  $A = 12$  w/3 x 3 Throats The Fitting Would Be a Minimum Of 20".

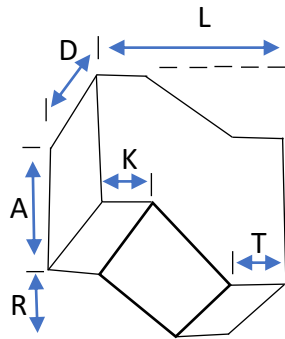
Now If A Changes It Will Be Based Off The Greater Number Between A & B.



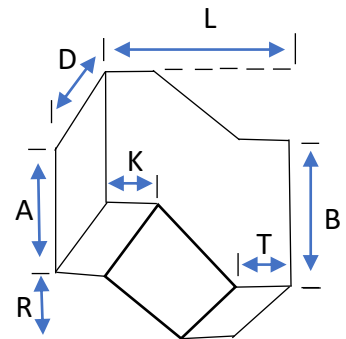
Square Rise Up  
w/Throat  
 $A \times D$  Both Ends  
Product # STRU



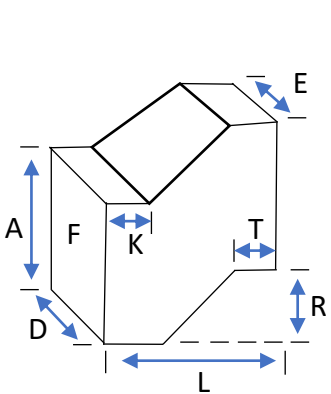
Square Rise Up  
w/Throat  
 $A \times D - B \times D$   
Product # STRUD



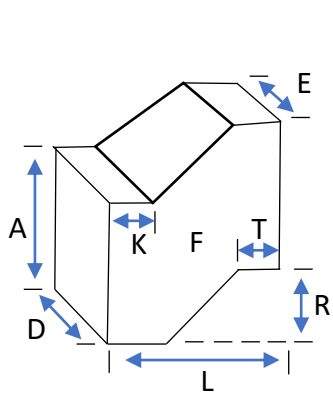
Square Rise Down  
w/Throat  
 $A \times D$  Both Ends  
Product # STRD



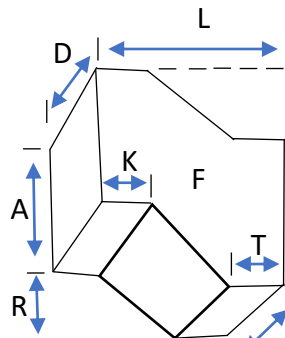
Square Rise Down  
w/Throat  
 $A \times D - B \times D$   
Product # STRDD



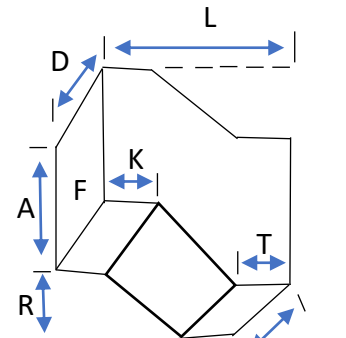
Square Rise Up  
w/Throat Back Flat  
 $A \times D - A \times E$   
Product # STRUBFA



Square Rise Up  
w/Throat Front Flat  
 $A \times D - A \times E$   
Product # STRUFFA



Square Rise Down  
w/Throat Front Flat  
 $A \times D - A \times E$   
Product # STRDFFA



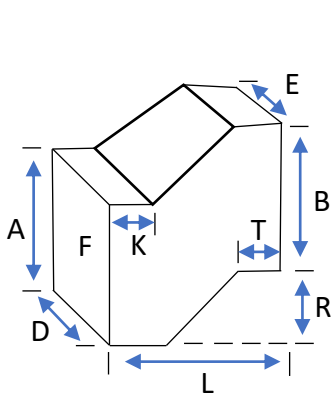
Square Rise Down  
w/Throat Back Flat  
 $A \times D - A \times E$   
Product # STRDBFA

# Square Riser/Transitions w/ Throats

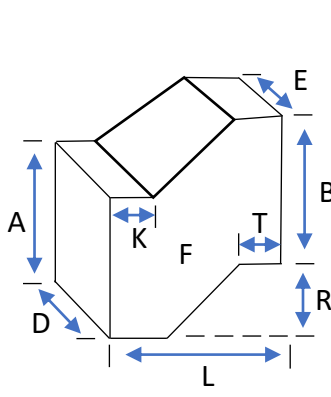
For Minimum Length It Will Be  $A + \text{Throats} + 2$ .

So For An Example  $A = 12$  w/3 x 3 Throats The Fitting Would Be a Minimum Of 20".

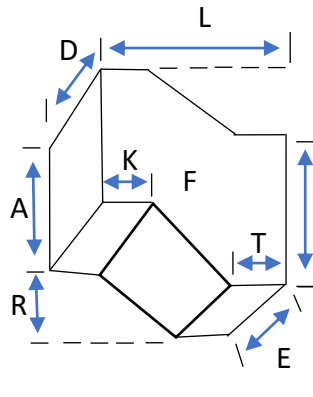
Now If A Changes It Will Be Based Off The Greater Number Between A & B.



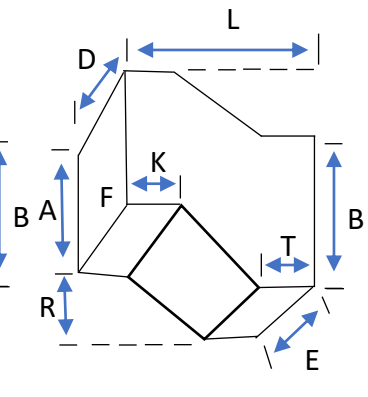
Square Rise Up  
w/Throat Back Flat  
 $A \times D - B \times E$   
Product # STRUBFAB



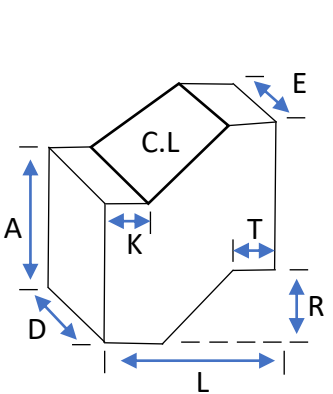
Square Rise Up  
w/Throat Front Flat  
 $A \times D - B \times E$   
Product # STRUFFAB



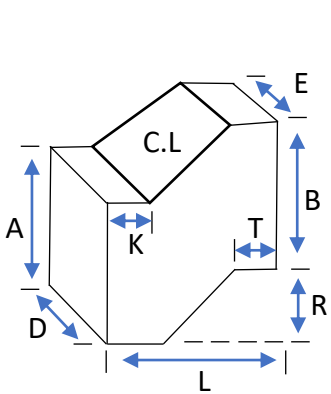
Square Rise Down  
w/Throat Front Flat  
 $A \times D - B \times E$   
Product # STRDFFAB



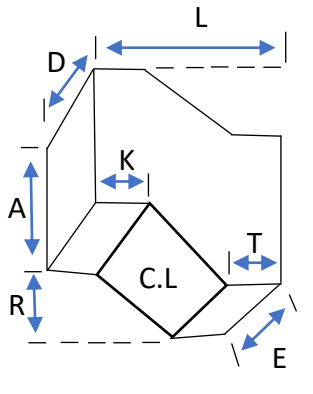
Square Rise Down  
w/Throat Back Flat  
 $A \times D - B \times E$   
Product # STRDBFAB



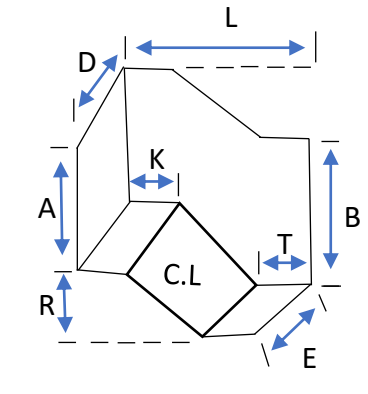
Square Rise Up  
w/Throat Center Line  
 $A \times D - A \times E$   
Product # STRUCLA



Square Rise Up  
w/Throat Center Line  
 $A \times D - B \times E$   
Product # STRUCLAB



Square Rise Down  
w/Throat Center Line  
 $A \times D - A \times E$   
Product # STRDCLA



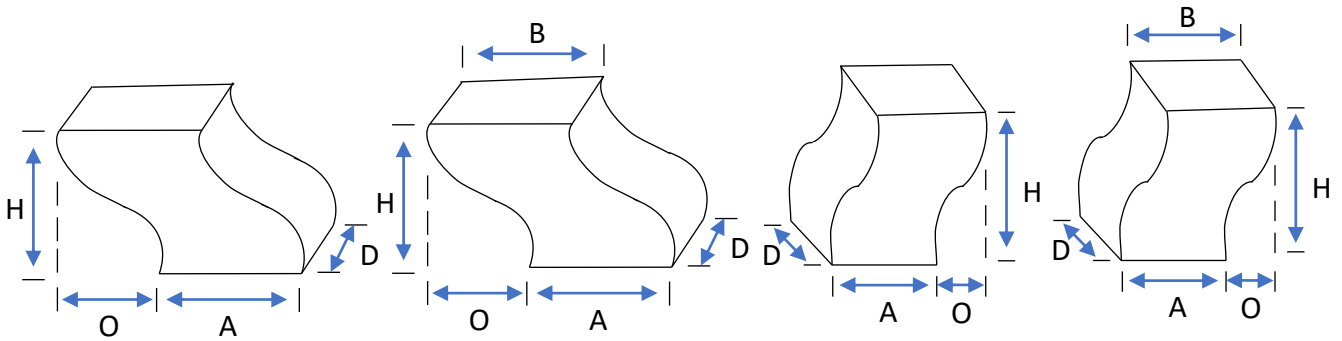
Square Rise Down  
w/Throat Center Line  
 $A \times D - B \times E$   
Product # STRDCLAB

# Radius Offsets/Transitions

For Minimum Height It Will Be  $A + 4$ .

So For An Example  $A = 20''$  The Fitting Would Be a Minimum Of  $24''$ .

Now If A Changes It Will Be Based Off The Greater Number Between A & B.

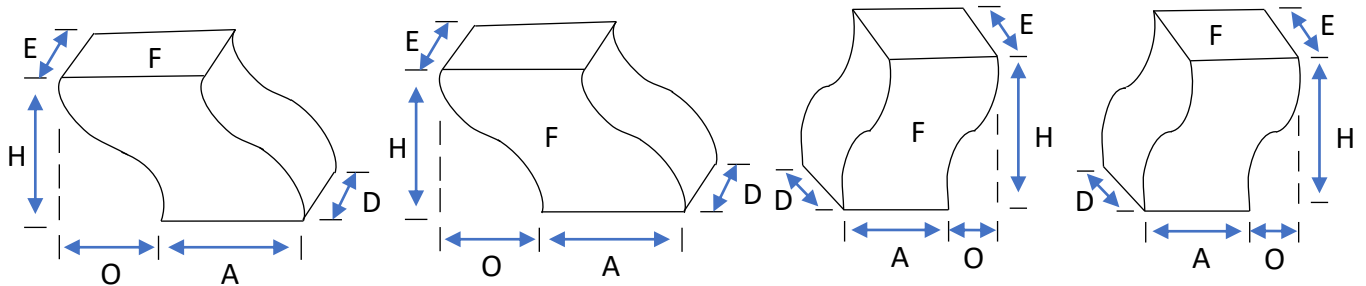


Radius Offset To  
The Left  
 $A \times D$  Both Ends  
Product # ROL

Radius Offset To  
The Left  
 $A \times D - B \times D$   
Product # ROLD

Radius Offset To  
The Right  
 $A \times D$  Both Ends  
Product # ROR

Radius Offset To  
The Right  
 $A \times D - B \times D$   
Product # RORD



Radius Offset To  
The Left  
Back Flat  
 $A \times D - A \times E$   
Product # ROLBFA

Radius Offset To  
The Left  
Front Flat  
 $A \times D - A \times E$   
Product # ROLFFA

Radius Offset To  
The Right  
Front Flat  
 $A \times D - A \times E$   
Product # RORFFA

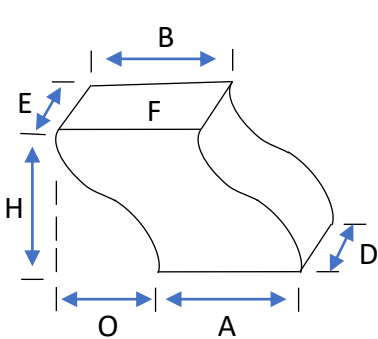
Radius Offset To  
The Right  
Back Flat  
 $A \times D - A \times E$   
Product # RORBFA

# Radius Offsets/Transitions

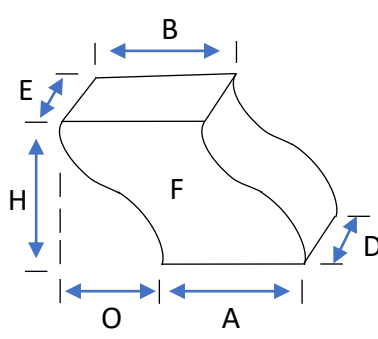
For Minimum Height It Will Be  $A + 4$ .

So For An Example  $A = 20''$  The Fitting Would Be a Minimum Of  $24''$ .

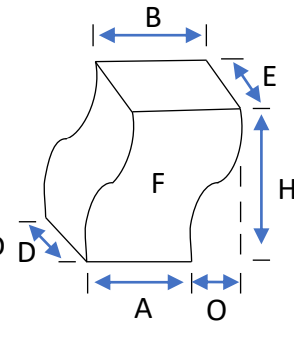
Now If A Changes It Will Be Based Off The Greater Number Between A & B.



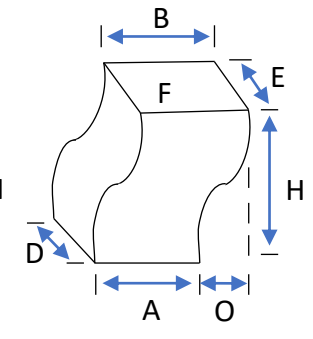
Offset To The Left  
Back Flat  
 $A \times D - B \times E$   
Product # ROLBFAB



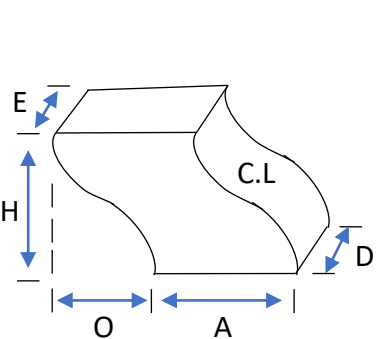
Offset To The Left  
Front Flat  
 $A \times D - B \times E$   
Product # ROLFFAB



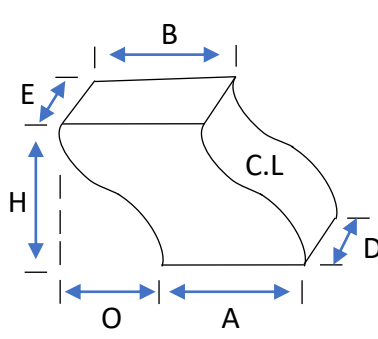
Offset To The Right  
Front Flat  
 $A \times D - B \times E$   
Product # RORFFAB



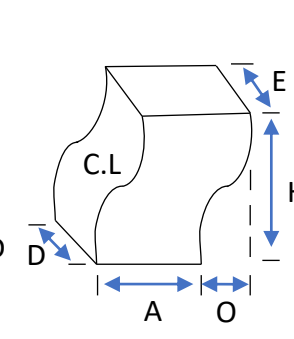
Offset To The Right  
Back Flat  
 $A \times D - B \times E$   
Product # RORBFAB



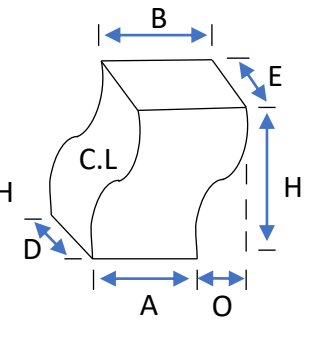
Offset To The Left  
Center Line  
 $A \times D - A \times E$   
Product # ROLCLA



Offset To The Left  
Center Line  
 $A \times D - B \times E$   
Product # ROLCLAB



Offset To The Right  
Center Line  
 $A \times D - A \times E$   
Product # RORCLA



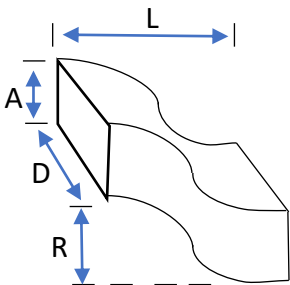
Offset To The Right  
Center Line  
 $A \times D - B \times E$   
Product # RORCLAB

# Radius Risers/Transitions

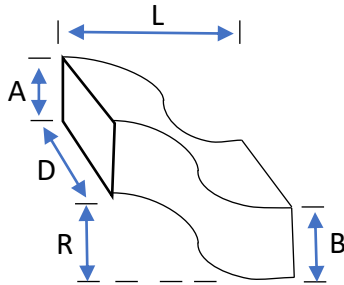
For Minimum Height It Will Be  $A + 4$ .

So For An Example  $A = 12''$  The Fitting Would Be a Minimum Of  $16''$ .

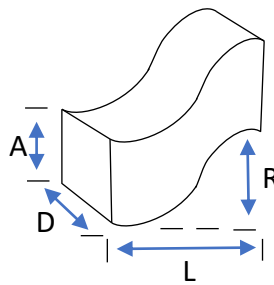
Now If A Changes It Will Be Based Off The Greater Number Between A & B.



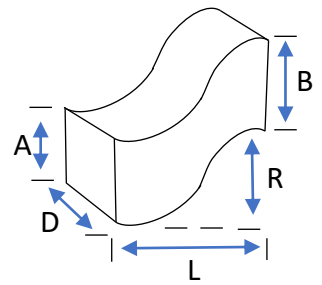
Radius Rise Down  
A X D Both Ends  
Product # RRD



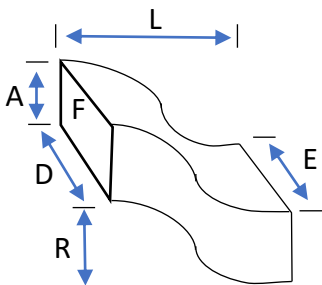
Radius Rise Down  
A x D - B x D  
Product # RRDD



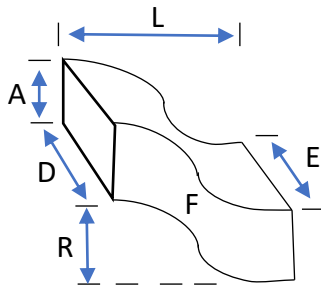
Radius Rise Up  
A x D Both Ends  
Product # RRU



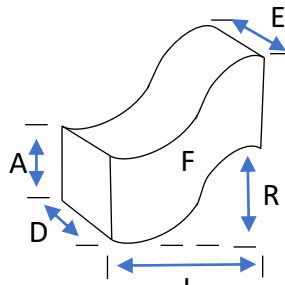
Radius Rise Up  
A x D - B x D  
Product # RRUD



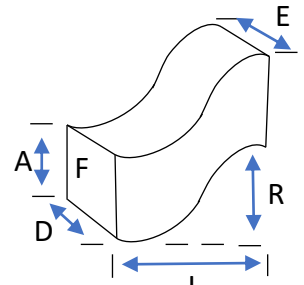
Radius Rise Down  
Back Flat  
A x D - A x E  
Product # RRDBFA



Radius Rise Down  
Front Flat  
A x D - A x E  
Product # RRDFFA



Radius Rise Up  
Front Flat  
A x D - A x E  
Product # RRUFFA



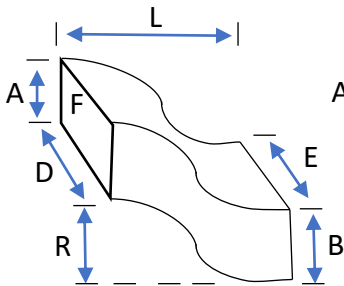
Radius Rise Up  
Back Flat  
A x D - A x E  
Product # RRUBFA

# Radius Risers/Transitions

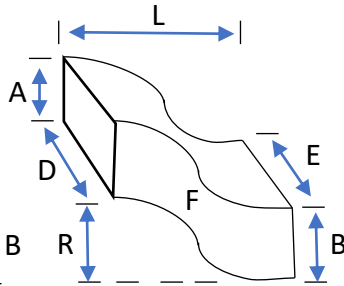
For Minimum Height It Will Be  $A + 4$ .

So For An Example  $A = 12''$  The Fitting Would Be a Minimum Of  $16''$ .

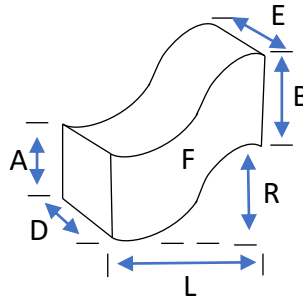
Now If A Changes It Will Be Based Off The Greater Number Between A & B.



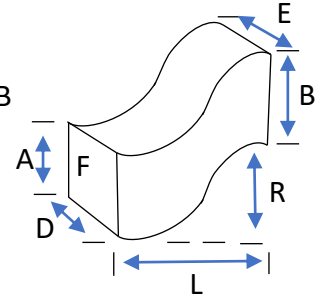
Radius Rise Down  
Back Flat  
 $A \times D - B \times E$   
Product # RRDBFAB



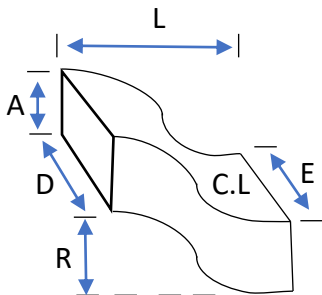
Radius Rise Down  
Front Flat  
 $A \times D - B \times E$   
Product # RRDFFAB



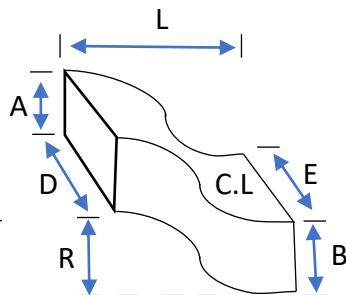
Radius Rise Up  
Front Flat  
 $A \times D - B \times E$   
Product # RRUFFAB



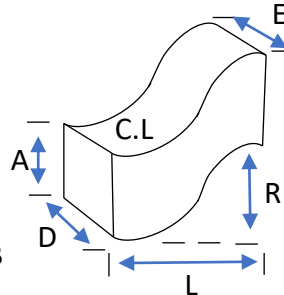
Radius Rise Up  
Back Flat  
 $A \times D - B \times E$   
Product # RRUBFAB



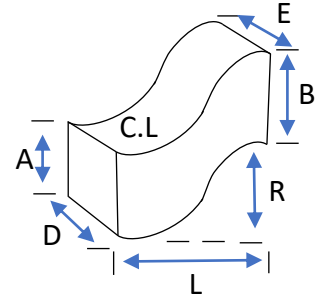
Radius Rise Down  
Center Line  
 $A \times D - A \times E$   
Product # RRDCLA



Radius Rise Down  
Center Line  
 $A \times D - B \times E$   
Product # RRDCLAB



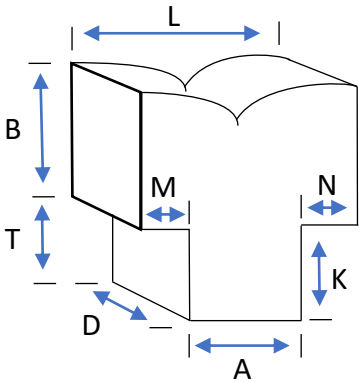
Radius Rise Up  
Center Line  
 $A \times D - A \times E$   
Product # RRUCLA



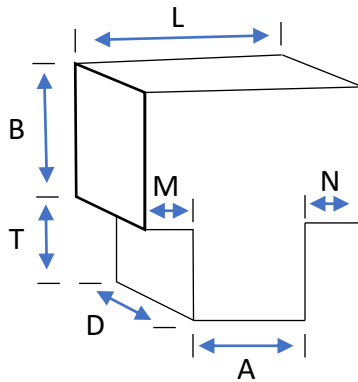
Radius Rise Up  
Center Line  
 $A \times D - B \times E$   
Product # RRUCLAB

# Square Throat Tee's/Wye's

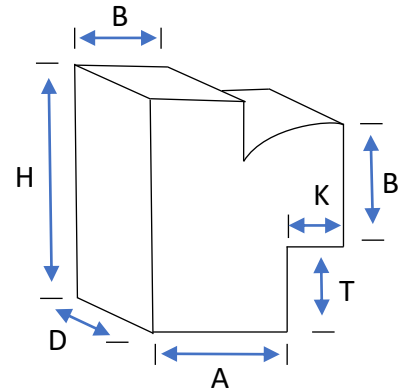
**Common Style Tee's/Wye's With Square Throats.  
On The Wye's Leg Can Turn Less Than 90 Degrees (If Needed).**



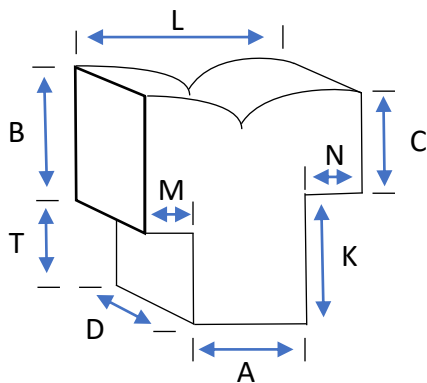
Radius Heel Square Throat Tee  
 $A \times D - B \times D - B \times D$   
 Product # RHSTTD



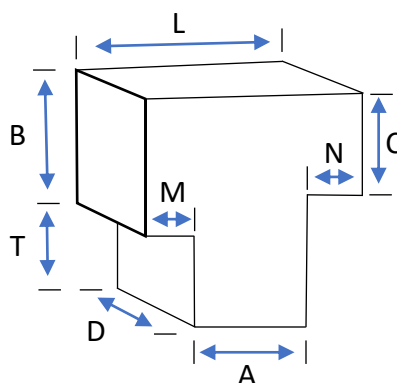
Square Heel Square Throat Tee  
 $A \times D - B \times D - B \times D$   
 Product # SHSTTD



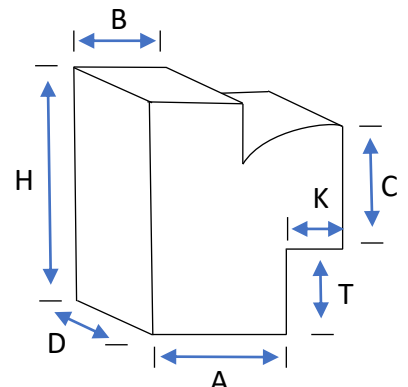
Square Throat Wye One Leg Turns 90  
 $A \times D - B \times D - B \times D$   
 Product # STWAB



Radius Heel Square Throat Tee  
 $A \times D - B \times D - C \times D$   
 Product # RHSTTABC



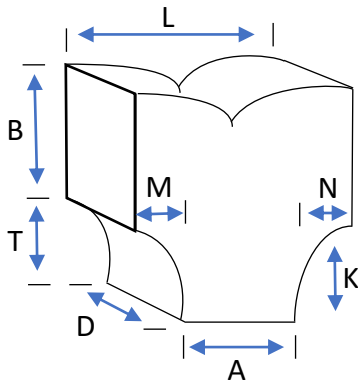
Square Heel Square Throat Tee  
 $A \times D - B \times D - C \times D$   
 Product # SHSTTABC



Square Throat Wye One Leg Turns 90  
 $A \times D - B \times D - C \times D$   
 Product # STWABC

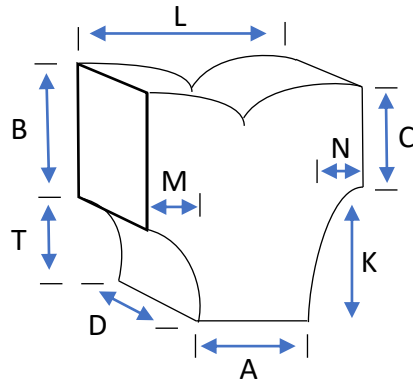
# Radius Throat Tee's/Wye's

**Common Style Tee's/Wye's With Radius Throats  
On The Wye's Leg Can Turn Less Than 90 Degrees (If Needed).**



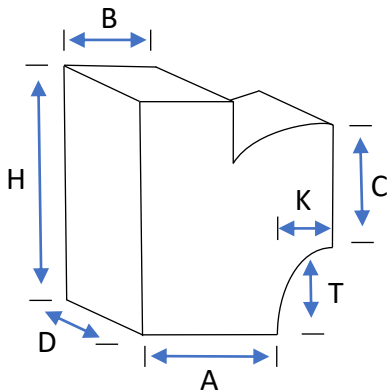
Radius Heel Radius Throat  
Tee

$A \times D - B \times D - B \times D$   
Product # RHRTTD



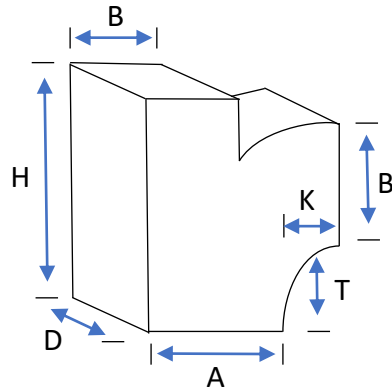
Radius Heel Radius Throat  
Tee

$A \times D - B \times D - C \times D$   
Product # RHRTTABC



Radius Throat Wye One Leg  
Turns 90

$A \times D - B \times D - B \times D$   
Product # RTWAB

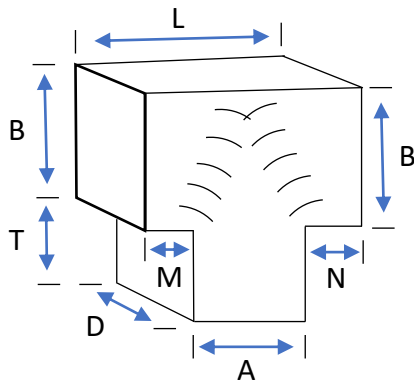


Radius Throat Wye One Leg  
Turns 90

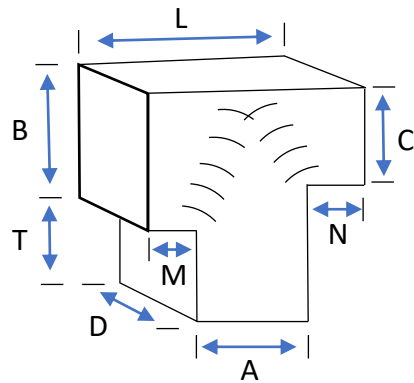
$A \times D - B \times D - B \times D$   
Product # RTWABC

# Pair Of Pants/Tee's w/Turning Vanes

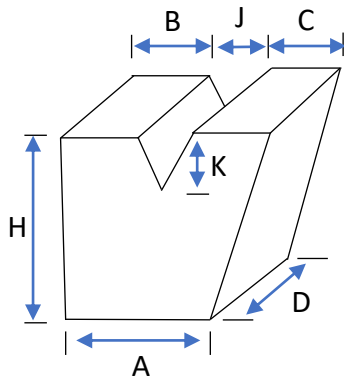
**Common Style Tee's With Turning Vanes.  
Pair Of Pants Center Line/One Side Flat.**



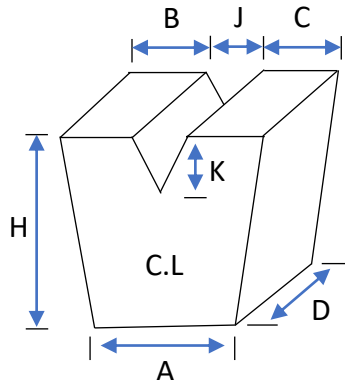
Square Back Tee  
W/Turning Vanes  
A x D - B x D - B x D  
Product # SBTTVAB



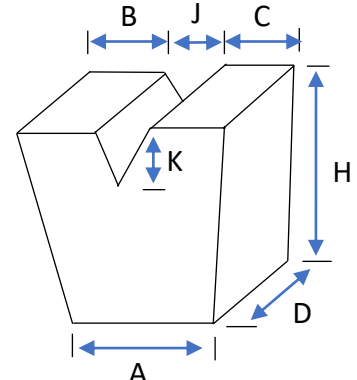
Square Back Tee  
W/Turning Vanes  
A x D - B x D - C x D  
Product # SBTTVABC



Pair Of Pants  
Flat On Left  
A x D - B x D - C x D  
Product # POPFOLABC



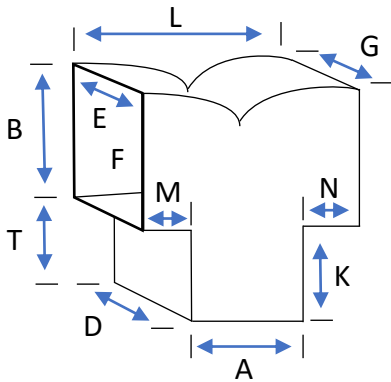
Pair Of Pants  
Center Line  
A x D - B x D - C x D  
Product # POPCLABC



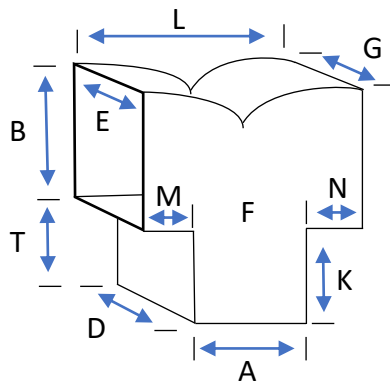
Pair Of Pants  
Flat On Right  
A x D - B x D - C x D  
Product # POPFORABC

# Radius Heel Square Throat Reducing Tee's

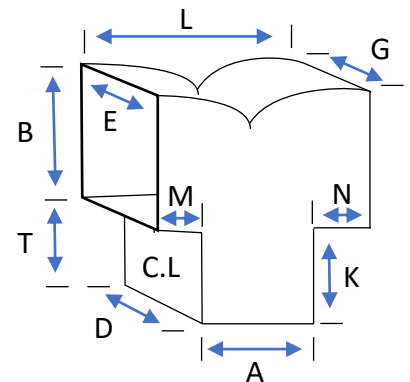
These Are Specialty Tee's With Square Throats That Transition Center Line/One Side Flat.



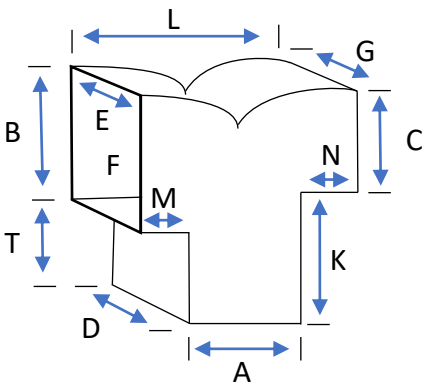
Radius Heel Square Throat  
Reducing Tee Back Flat  
 $A \times D - B \times E - B \times G$   
Product # RHSTRTB FAB



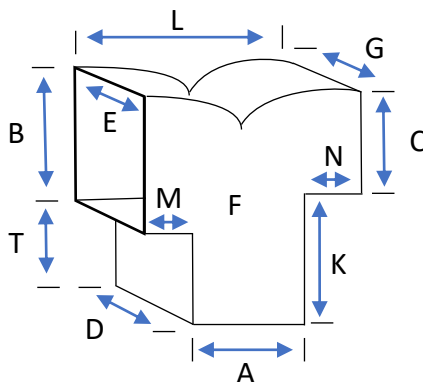
Radius Heel Square Throat  
Reducing Tee Front Flat  
 $A \times D - B \times E - B \times G$   
Product # RHSTRTF FAB



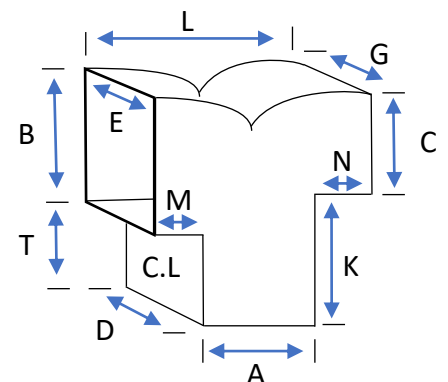
Radius Heel Square Throat  
Reducing Center Line Tee  
 $A \times D - B \times E - B \times G$   
Product # RHSTRCLTAB



Radius Heel Square Throat  
Reducing Tee Back Flat  
 $A \times D - B \times E - C \times G$   
Product # RHSTRTB ABC



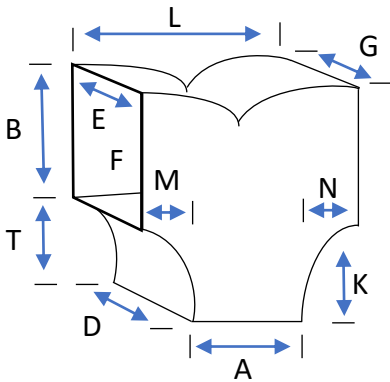
Radius Heel Square Throat  
Reducing Tee Front Flat  
 $A \times D - B \times E - C \times G$   
Product # RHSTRTF ABC



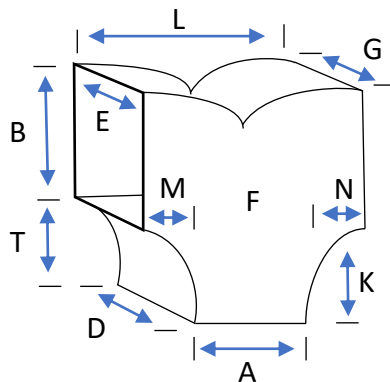
Radius Heel Square Throat  
Reducing Center Line Tee  
 $A \times D - B \times E - C \times G$   
Product # RHSTRCLT ABC

# Radius Heel Radius Throats Reducing Tee's

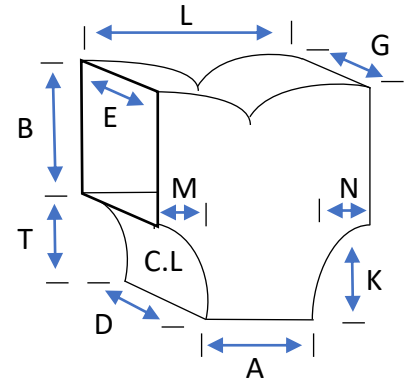
These Are Specialty Tee's With Radius Throats That Transition Center Line/One Side Flat.



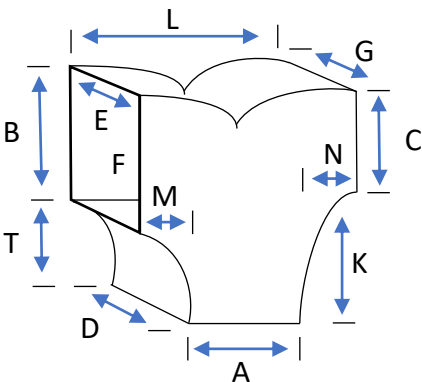
Radius Heel Radius Throat  
Reducing Tee Back Flat  
 $A \times D - B \times E - B \times G$   
Product # RHRTRTB FAB



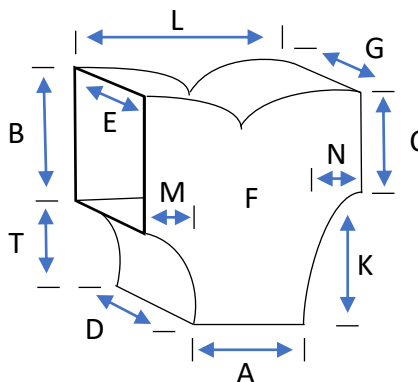
Radius Heel Radius Throat  
Reducing Tee Front Flat  
 $A \times D - B \times E - B \times G$   
Product # RHRTRTF FAB



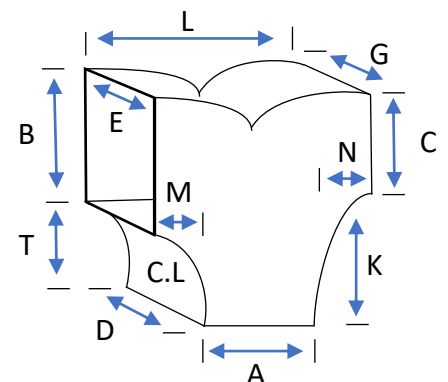
Radius Heel Radius Throat  
Reducing Center Line Tee  
 $A \times D - B \times E - B \times G$   
Product # RHRTRCLTAB



Radius Heel Radius Throat  
Reducing Tee Back Flat  
 $A \times D - B \times E - C \times G$   
Product # RHRTRTB ABC



Radius Heel Radius Throat  
Reducing Tee Front Flat  
 $A \times D - B \times E - C \times G$   
Product # RHRTRTF ABC

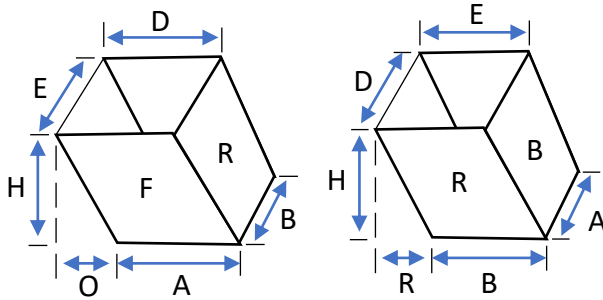


Radius Heel Radius Throat  
Reducing Center Line Tee  
 $A \times D - B \times E - C \times G$   
Product # RHRTRCLT ABC

# Square Double Offset w/Two Views

These Fittings Are Used If You Don't Have A Flat Side.  
 This View Is Vertical Drawn w/Two Different Views.  
 If Your Duct Is Horizontal Then Rotate Catalog.  
 F = Front R = Right B = Back L = Left

## Offset To The Left / Rise Down

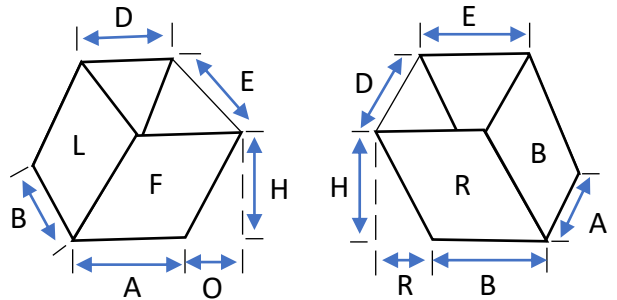


Front View  
Offset To The Left

Right Side View  
Rise Down

Product # SOLRD

## Offset To The Right / Rise Down

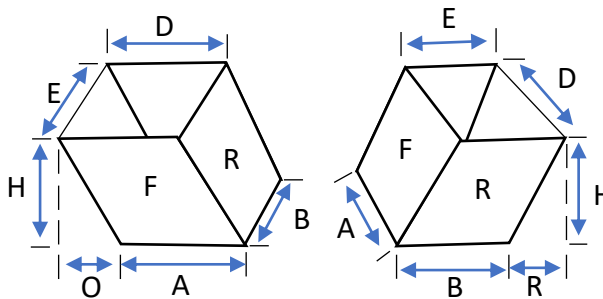


Front View  
Offset To The Right

Right Side View  
Rise Down

Product # SORRD

## Offset To The Left / Rise Up

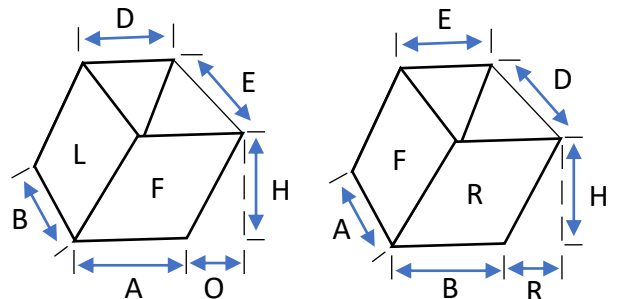


Front View  
Offset To The Left

Right Side View  
Rise Up

Product # SOLRU

## Offset To The Right / Rise Up



Front View  
Offset To The Right

Right Side View  
Rise Up

Product # SORRU

# Square Double Offset w/ Throats & Two Views

These Fittings Are Used If You Don't Have A Flat Side.

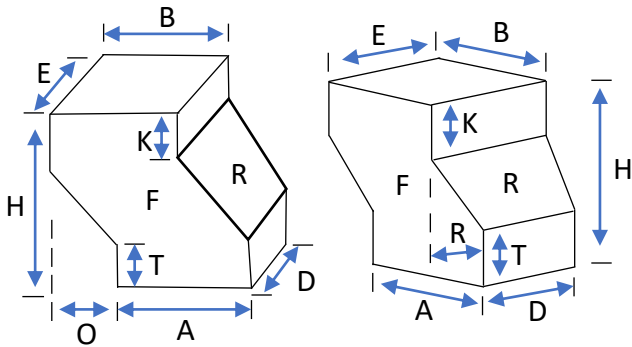
Minimum Height/Length Is Equal To Or Greater Than Bigger Number Between A & B + Throats + 2

This View Is Vertical Drawn w/Two Different Views.

If Your Duct Is Horizontal Then Rotate The Catalog.

F = Front R = Right B = Back L = Left

## Offset To The Left / Rise Down

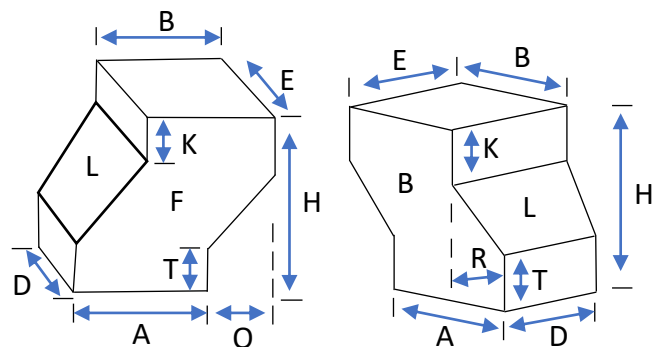


Front View  
Offset To The Left

Right Side View  
Rise Down

Product # STOLRD

## Offset To The Right / Rise Down

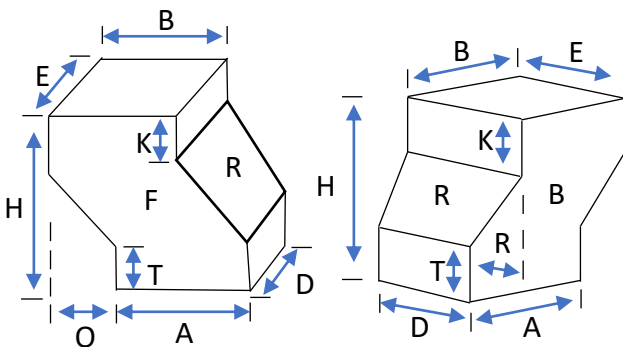


Front View  
Offset To The Right

Left Side View  
Rise Down

Product # STORRD

## Offset To The Left / Rise Up

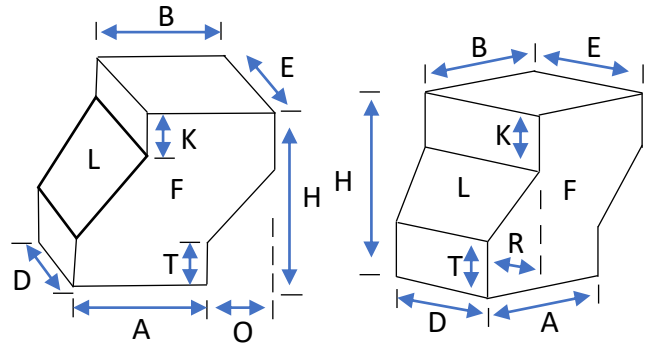


Front View  
Offset To The Left

Right Side View  
Rise Up

Product # STOLRU

## Offset To The Right / Rise Up



Front View  
Offset To The Right

Left Side View  
Rise Up

Product # STORRU

# Radius Double Offset w/Two Views

These Fittings Are Used If You Don't Have A Flat Side.

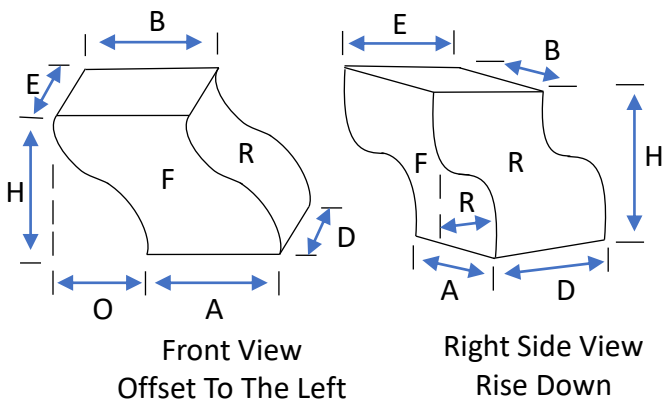
Minimum Height/Length Is Equal To Or Greater Than Bigger Number Between A & B + 4

This View Is Vertical Drawn w/Two Different Views.

If Your Duct Is Horizontal Then Rotate The Catalog.

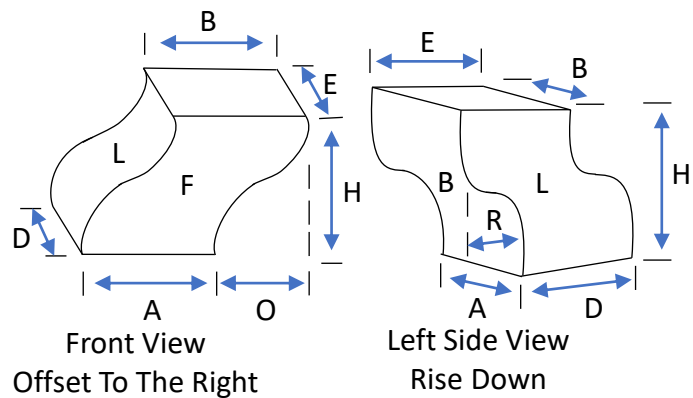
F = Front R = Right B = Back L = Left

## Offset To The Left / Rise Down



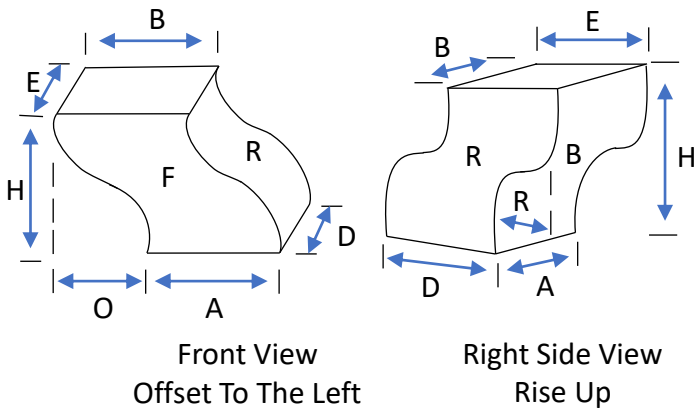
Product # ROLRD

## Offset To The Right / Rise Down



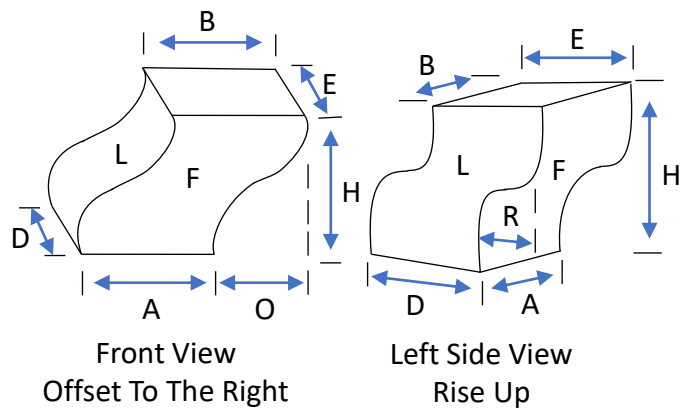
Product # RORRD

## Offset To The Left / Rise Up



Product # ROLRU

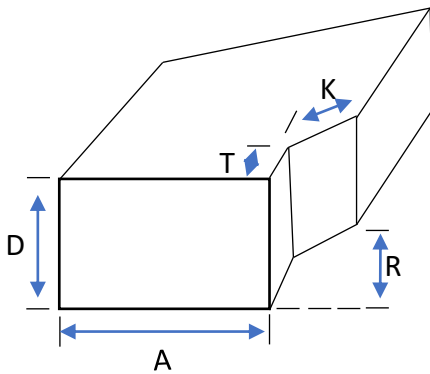
## Offset To The Right / Rise Up



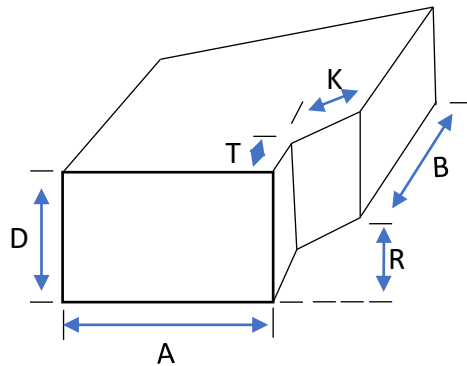
Product # RORRU

# Square Heel Throat Horizontal Elbows w/ Rise

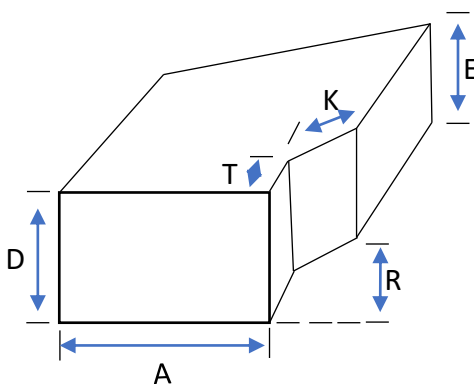
**This Is A Specialty Horizontal Elbow With Rise Depending What You Need.  
Looking At The Elbow It Is Turning To The Right With A Rise Up  
Or Can Be Turning To The Left With A Rise Down.**



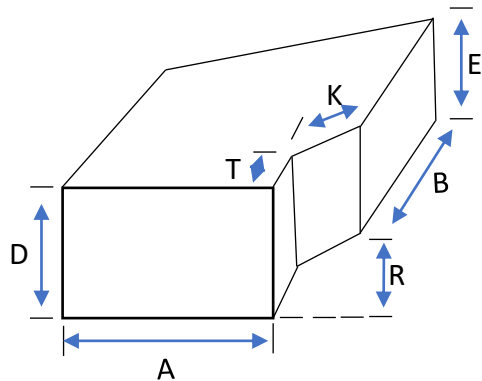
Square Heel Square Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D$  Both Ends  
Product # SHSTHERRU



Square Heel Square Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D - B \times D$   
Product # SHSTHERRUD



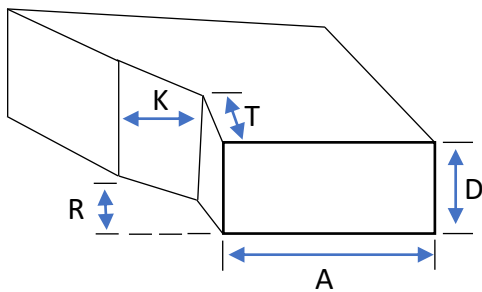
Square Heel Square Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D - B \times D$   
Product # SHSTHERRUA



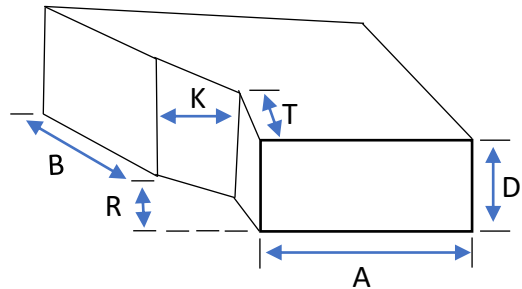
Square Heel Square Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D - B \times E$   
Product # SHSTHERRUAB

# Square Heel Throat Horizontal Elbows w/ Rise

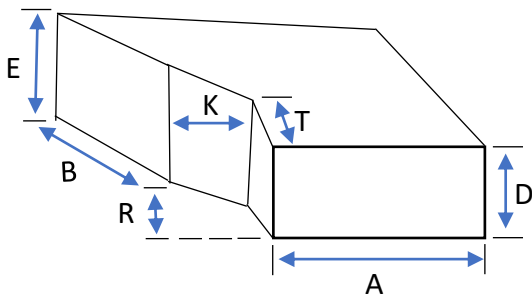
**This Is A Specialty Horizontal Elbow With Rise Depending What You Need.  
Looking At The Elbow It Is Turning To The Left With A Rise Up  
Or Can Be Turning To The Right With A Rise Down.**



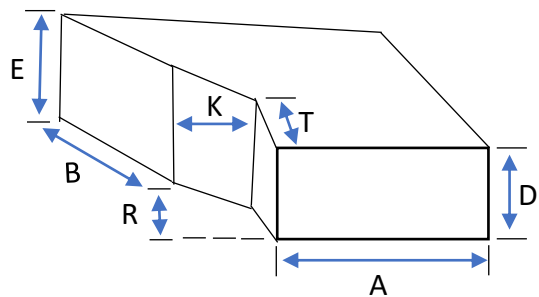
Square Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up/  
To The Right Rise Down  
 $A \times D$  Both Ends  
Product # SHSTHELRLU



Square Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up/  
To The Right Rise Down  
 $A \times D - B \times D$   
Product # SHSTHELRLUD



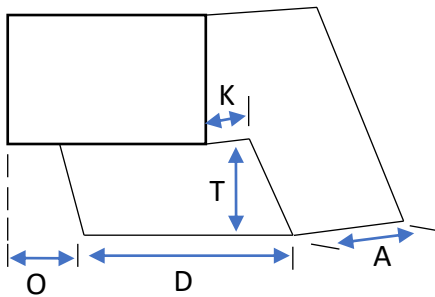
Square Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up/  
To The Right Rise Down  
 $A \times D - A \times E$   
Product # SHSTHELRLUA



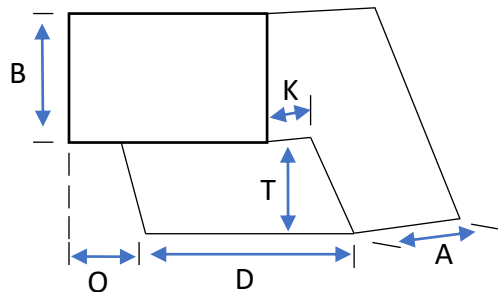
Square Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up/  
To The Right Rise Down  
 $A \times D - B \times E$   
Product # SHSTHELRLUAB

# Square Heel Throat Vertical Elbows w/ Offset

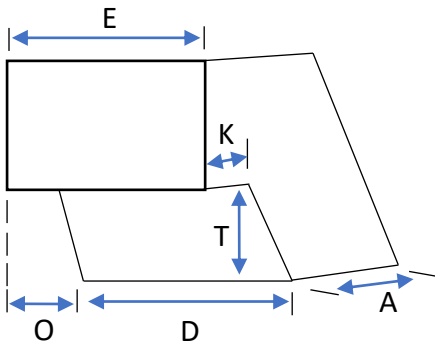
This Is A Specialty Vertical Elbow With Offset To The Left.  
Looking At The Elbow It Is Offsetting To The Left.



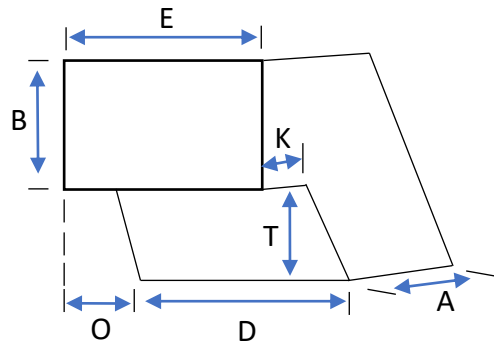
Square Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D$  Both Ends  
Product # SHSTVEOL



Square Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - B \times D$   
Product # SHSTVEOLD



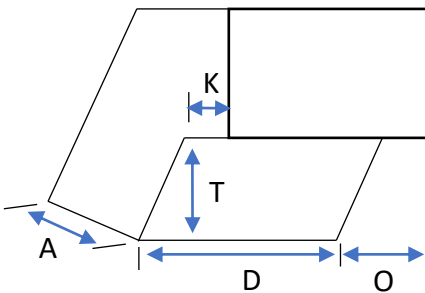
Square Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - A \times E$   
Product # SHSTVEOLA



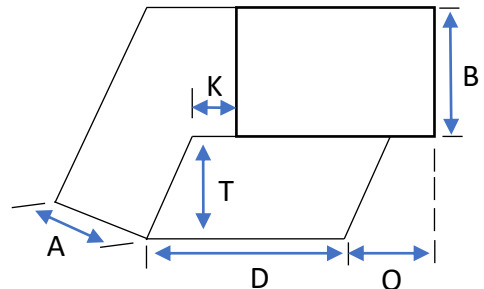
Square Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - A \times E$   
Product # SHSTVEOLAB

# Square Heel Square Throat Vertical Elbows w/ Offset

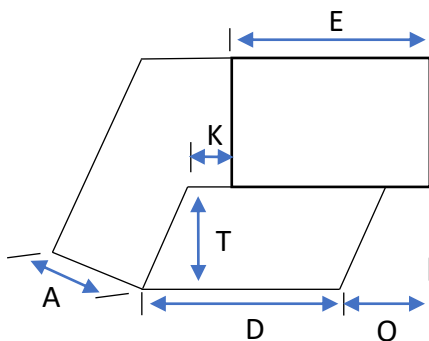
This Is A Specialty Vertical Elbow With Offset To The Right.  
Looking At The Elbow It Is Offsetting To The Right.



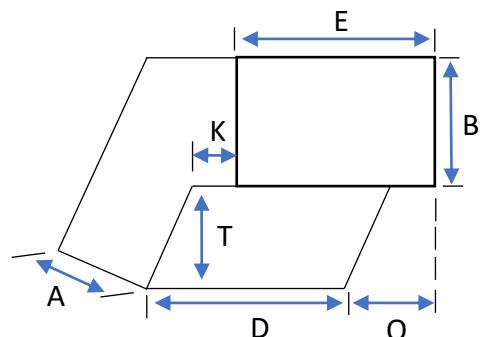
Square Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D$  Both Ends  
Product # SHSTVEOR



Square Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - B \times E$   
Product # SHSTVEORD



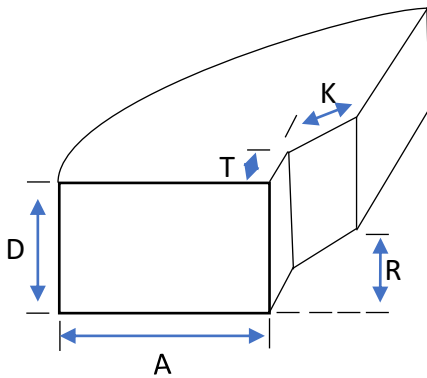
Square Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - A \times E$   
Product # SHSTVEORA



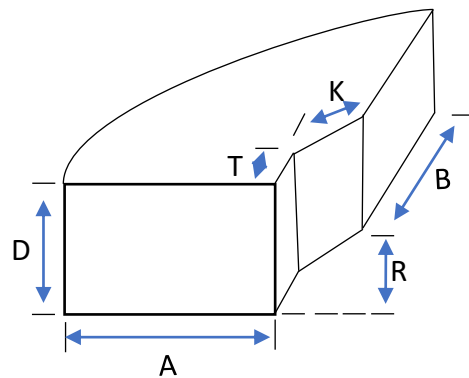
Square Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - B \times E$   
Product # SHSTVEORAB

# Radius Heel Square Throat Horizontal Elbow w/ Rise

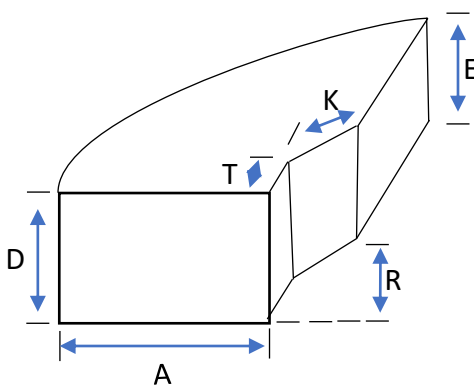
This Is A Specialty Horizontal Elbow With Rise Depending What You Need.  
 Looking At The Elbow It Is Turning To The Right With A Rise Up  
 Or Can Be Turning To The Left With A Rise Down.



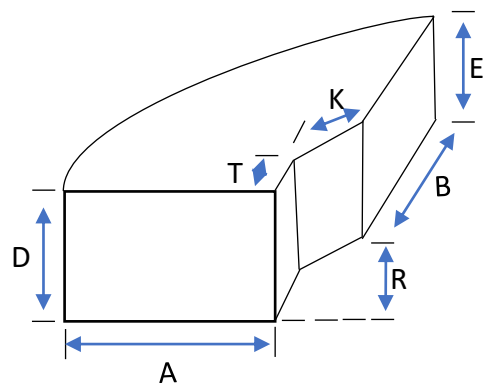
Radius Heel Square Throat  
 Horizontal Elbow  
 To The Right Rise Up/  
 To The Left Rise Down  
 $A \times D$  Both Ends  
 Product # RHSTHERRU



Radius Heel Square Throat  
 Horizontal Elbow  
 To The Right Rise Up/  
 To The Left Rise Down  
 $A \times D - B \times D$   
 Product # RHSTHERRUD



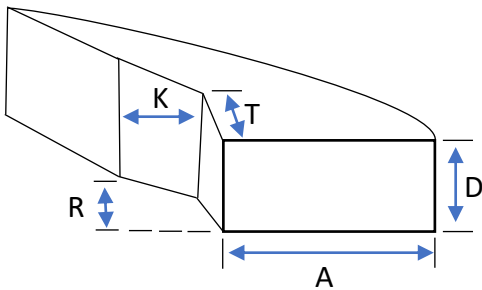
Radius Heel Square Throat  
 Horizontal Elbow  
 To The Right Rise Up/  
 To The Left Rise Down  
 $A \times D - B \times D$   
 Product # RHSTHERRUA



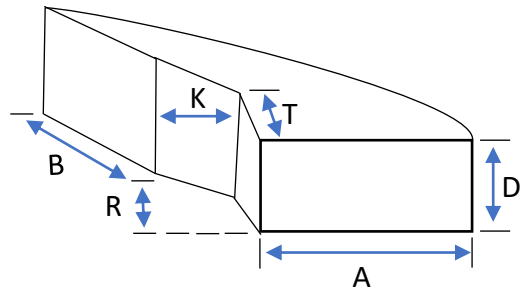
Radius Heel Square Throat  
 Horizontal Elbow  
 To The Right Rise Up/  
 To The Left Rise Down  
 $A \times D - B \times E$   
 Product # RHSTHERRUAB

# Radius Heel Square Throat Horizontal Elbow w/ Rise

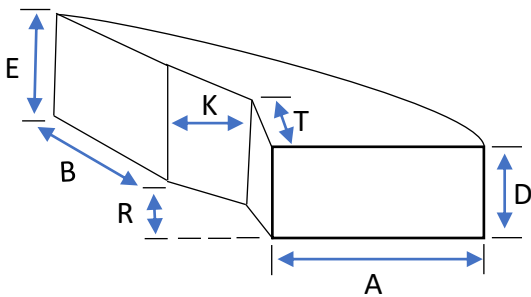
**This Is A Specialty Horizontal Elbow With Rise Depending What You Need.  
Looking At The Elbow It Is Turning To The Left With A Rise Up  
Or Can Be Turning To The Right With A Rise Down.**



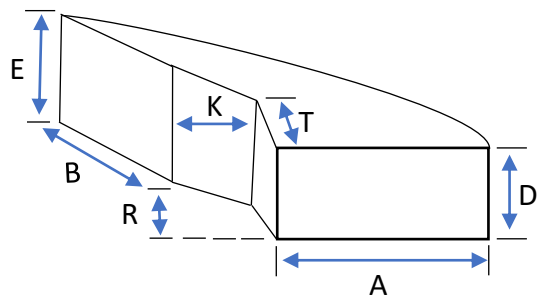
Radius Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up  
To The Right Rise Down  
 $A \times D$  Both Ends  
Product # RHSTHELRLU



Radius Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up  
To The Right Rise Down  
 $A \times D - B \times D$   
Product # RHSTHELRLUD



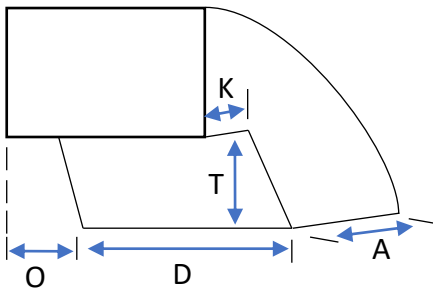
Radius Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up  
To The Right Rise Down  
 $A \times D - A \times E$   
Product # RHSTHELRLUA



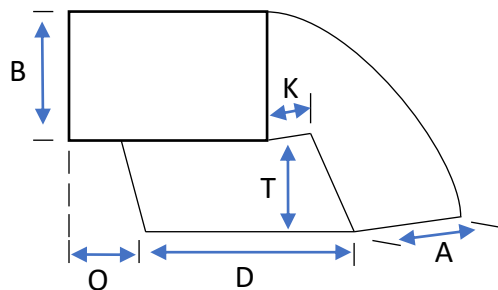
Radius Heel Square Throat  
Horizontal Elbow  
To The Left Rise Up  
To The Right Rise Down  
 $A \times D - B \times E$   
Product # RHSTHELRLUAB

# Radius Heel Square Throat Vertical Elbow w/ Offset

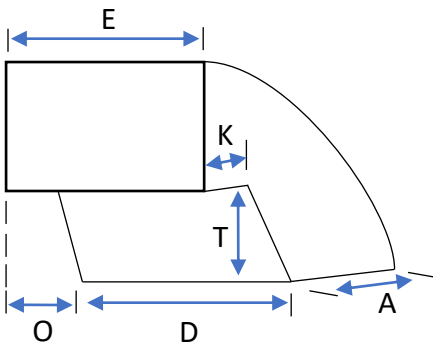
This Is A Specialty Vertical Elbow With Offset To The Left.  
Looking At The Elbow It Is Offsetting To The Left.



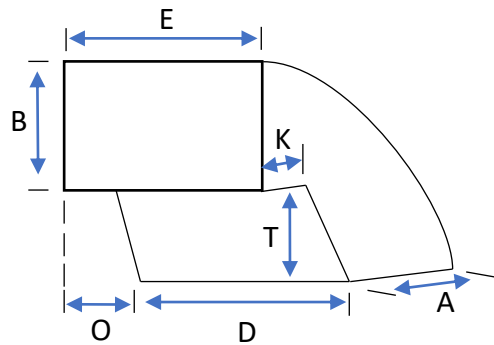
Radius Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D$  Both Ends  
Product # RHSTVEOL



Radius Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - B \times D$   
Product # RHSTVEOLD



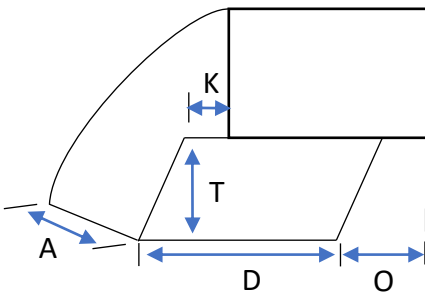
Radius Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - A \times E$   
Product # RHSTVEOLA



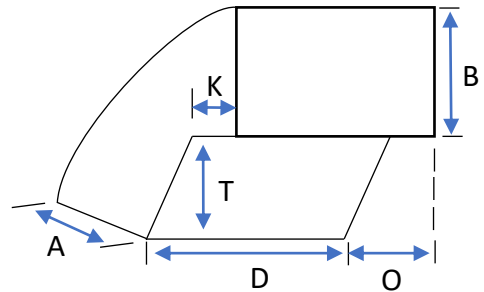
Radius Heel Square Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - A \times E$   
Product # RHSTVEOLAB

# Radius Heel & Square Throat Vertical Elbow w/ Offset

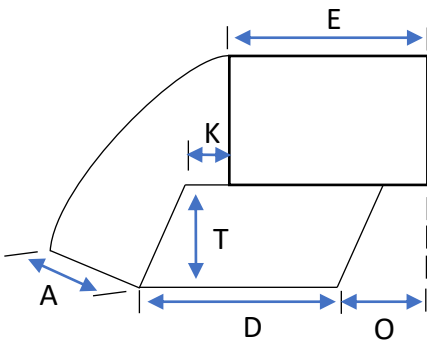
This Is A Specialty Vertical Elbow With Offset To The Right.  
Looking At The Elbow It Is Offsetting To The Right.



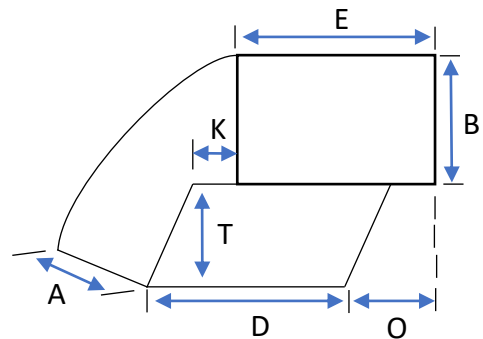
Radius Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D$  Both Ends  
Product # RHSTVEOR



Radius Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - B \times E$   
Product # RHSTVEORD



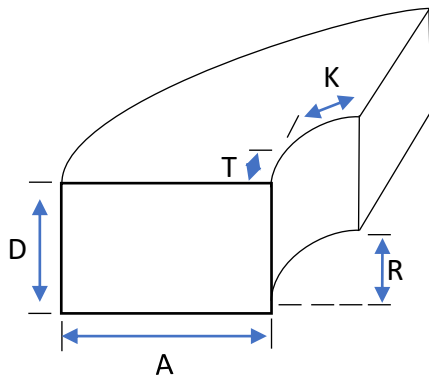
Radius Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - A \times E$   
Product # RHSTVEORA



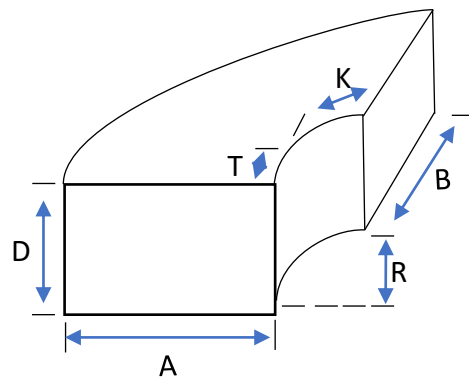
Radius Heel Square Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - B \times E$   
Product # RHSTVEORAB

# Radius Heel Radius Throat Horizontal Elbow w/ Rise

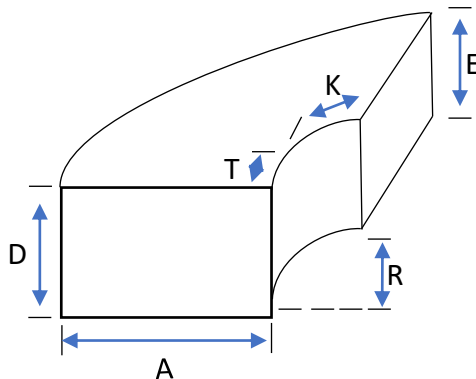
**This Is A Specialty Horizontal Elbow With Rise Depending What You Need.  
Looking At The Elbow It Is Turning To The Right With A Rise Up  
Or Can Be Turning To The Left With A Rise Down.**



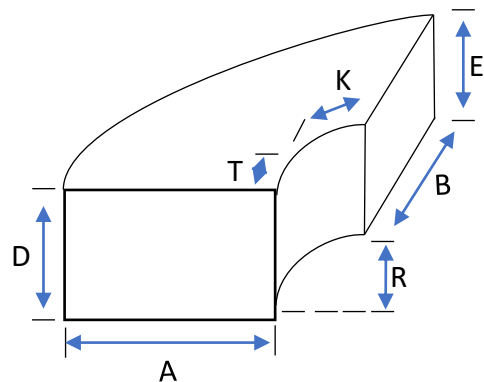
Radius Heel Radius Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D$  Both Ends  
Product # RHRTHERRU



Radius Heel Radius Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D - B \times D$   
Product # RHRTHERRUD



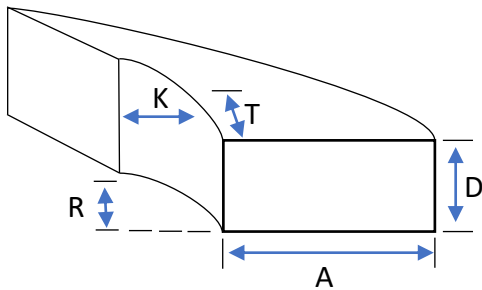
Radius Heel Radius Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D - B \times D$   
Product # RHRTHERRUA



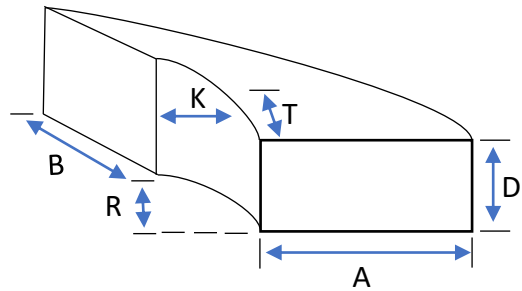
Radius Heel Radius Throat  
Horizontal Elbow  
To The Right Rise Up/  
To The Left Rise Down  
 $A \times D - B \times E$   
Product # RHRTHERRUAB

# Radius Heel Radius Throat Horizontal Elbow w/ Rise

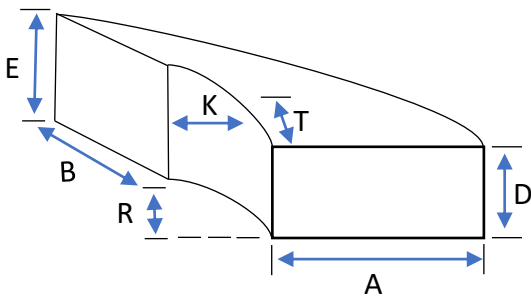
This Is A Specialty Horizontal Elbow With Rise Depending What You Need.  
 Looking At The Elbow It Is Turning To The Left With A Rise Up  
 Or Can Be Turning To The Right With A Rise Down.



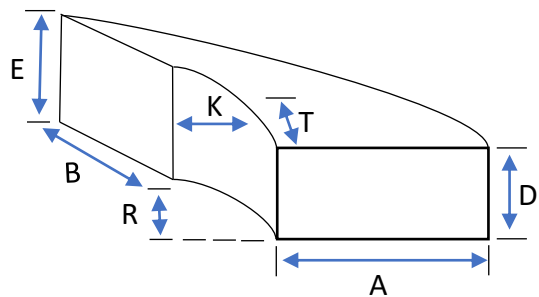
Radius Heel Radius Throat  
 Horizontal Elbow  
 To The Left Rise Up  
 To The Right Rise Down  
 $A \times D$  Both Ends  
 Product # RHRTHELRU



Radius Heel Radius Throat  
 Horizontal Elbow  
 To The Left Rise Up  
 To The Right Rise Down  
 $A \times D - B \times D$   
 Product # RHRTHELRUD



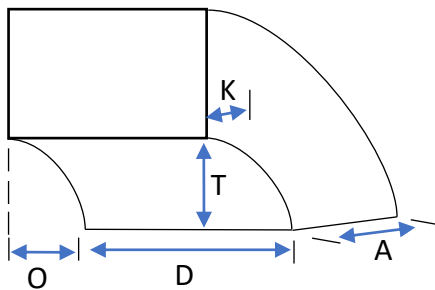
Radius Heel Radius Throat  
 Horizontal Elbow  
 To The Left Rise Up  
 To The Right Rise Down  
 $A \times D - A \times E$   
 Product # RHRTHELRUA



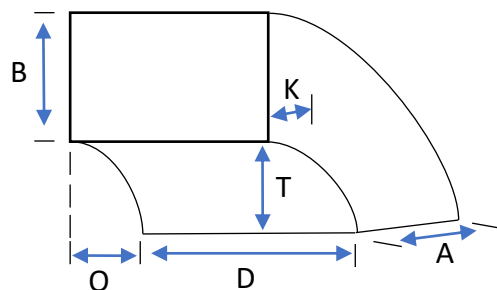
Radius Heel Radius Throat  
 Horizontal Elbow  
 To The Left Rise Up  
 To The Right Rise Down  
 $A \times D - B \times E$   
 Product # RHRTHELRUAB

# Radius Heel Radius Throat Vertical Elbow w/ Offset

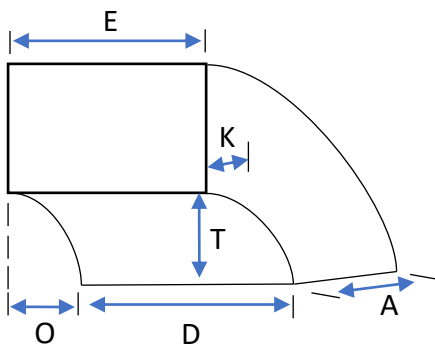
**This Is A Specialty Vertical Elbow With Offset To The Left.  
Looking At The Elbow It Is Offsetting To The Left.**



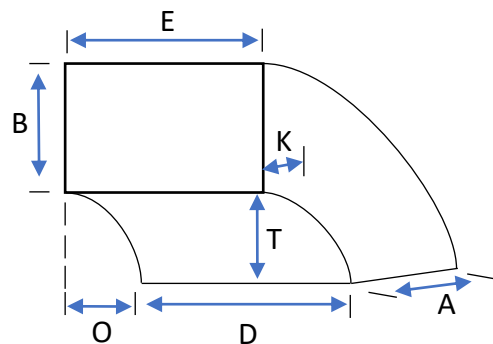
Radius Heel Radius Heel  
Vertical Elbow  
Offset To The Left  
 $A \times D$  Both Ends  
Product # RHRTVEOL



Radius Heel Radius Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - B \times D$   
Product # RHRTVEOLD



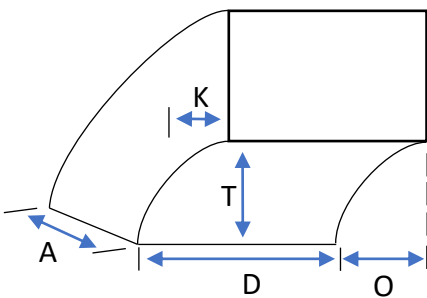
Radius Heel Radius Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - A \times E$   
Product # RHRTVEOLA



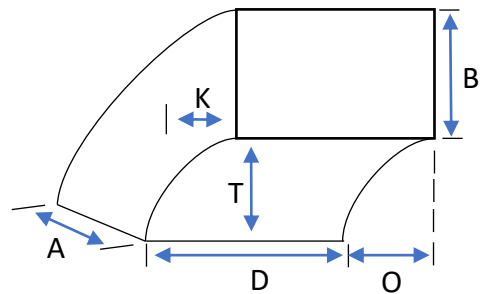
Radius Heel Radius Throat  
Vertical Elbow  
Offset To The Left  
 $A \times D - A \times E$   
Product # RHRTVEOLAB

# Radius Heel Radius Throat Vertical Elbow w/ Offset

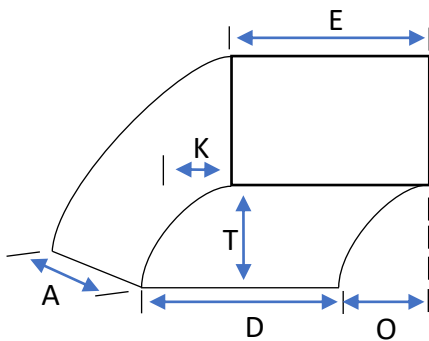
This Is A Specialty Vertical Elbow With Offset To The Right.  
Looking At The Elbow It Is Offsetting To The Right.



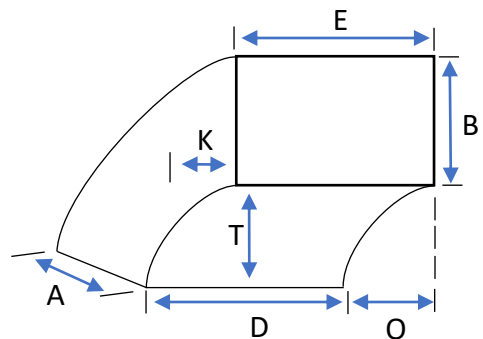
Radius Heel Radius Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D$  Both Ends  
Product # RHRTVEOR



Radius Heel Radius Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - B \times D$   
Product # RHRTVEORD



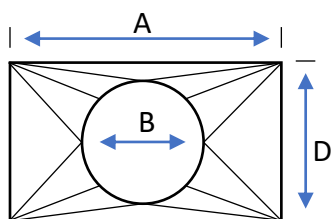
Radius Heel Radius Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - A \times E$   
Product # RHRTVEORA



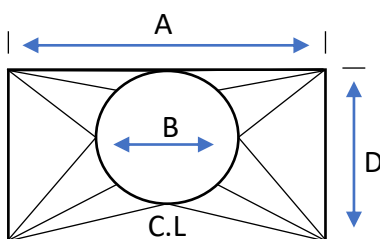
Radius Heel Radius Throat  
Vertical Elbow  
Offset To The Right  
 $A \times D - B \times E$   
Product # RHRTVEORAB

# Square To Round Transition (Center Line/Flat On One Side)

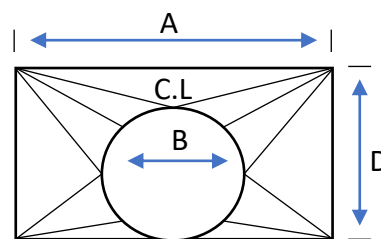
**These Square To Rounds Are The Most Common.  
The Only Thing Missing Is The Length/Height Of The Fitting.**



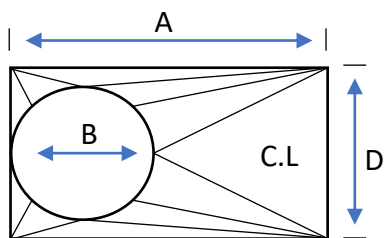
Square To Round  
Center Line  
Product # STRCL



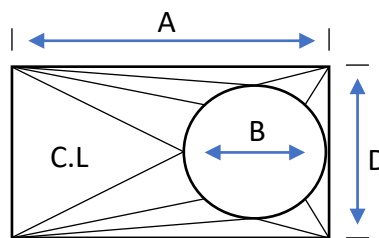
Square To Round  
Top Flat Center Line  
Product # STRTFCL



Square To Round  
Bottom Flat Center Line  
Product # STRBFCL



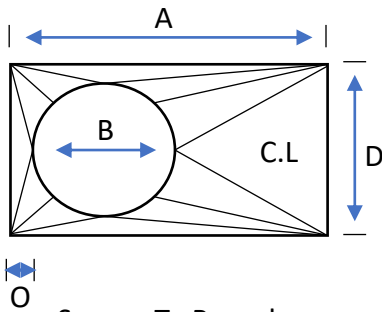
Square To Round  
Left Side Flat  
Center Line  
Product # STRLFCL



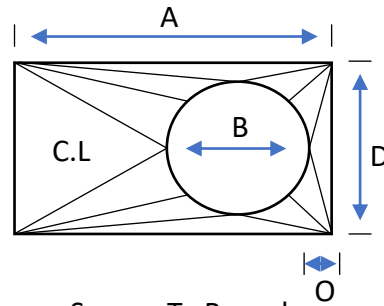
Square To Round  
Right Side Flat  
Center Line  
Product # STRRFCL

# Square To Round Offset/Riser (Circle Inside Of Square)

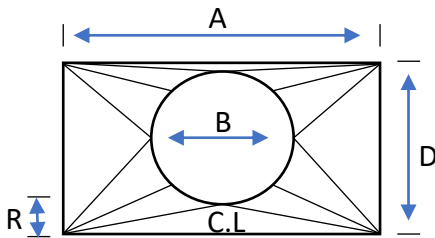
**These Square To Rounds Are Offset/Rise.  
With Circle Inside Of Square.  
The Only Thing Missing Is The Length/Height Of The Fitting.**



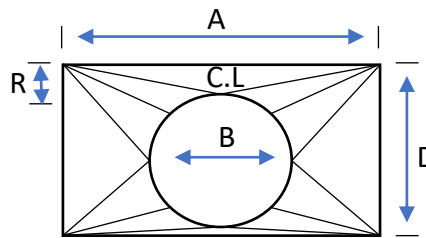
Square To Round  
Offset Left Measured  
From Left Side  
Center Line  
Product # STROLCLCIS



Square To Round  
Offset Right Measured  
From Right Side  
Center Line  
Product # STORRCLCIS



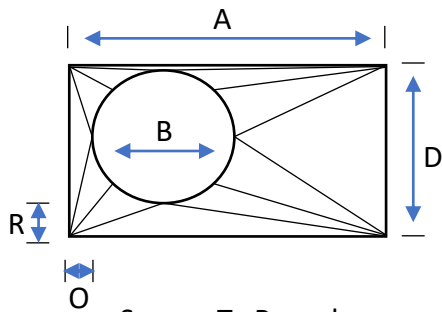
Square To Round  
Rise Up Measured  
From Bottom Side  
Center Line  
Product # STRRUCLCIS



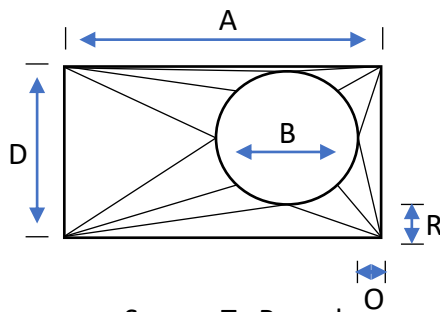
Square To Round  
Rise Down Measured  
From Top Side  
Center Line  
Product # STRRDCLCIS

# Square To Round Double Offset (Circle Inside Of Square)

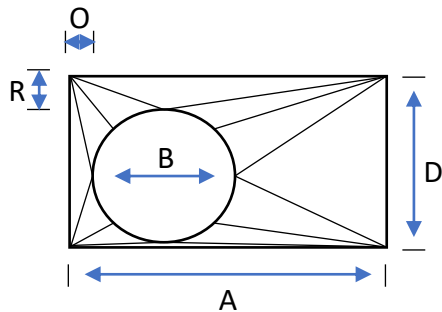
**These Square To Rounds Are Double Offsets.  
With Circle Inside Of Square.  
The Only Thing Missing Is The Length/Height Of The Fitting.**



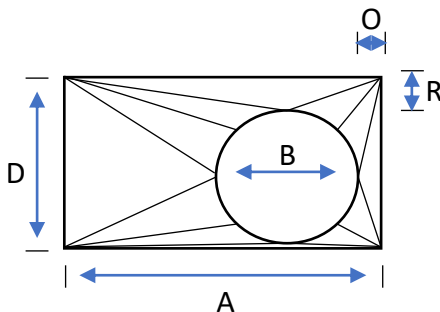
Square To Round  
Offset Measured From Left Side  
Rise Up Measure From Bottom  
Product # STOLRUCIS



Square To Round  
Offset Measured From Right Side  
Rise Up Measure From Bottom  
Product # STORRUCIS



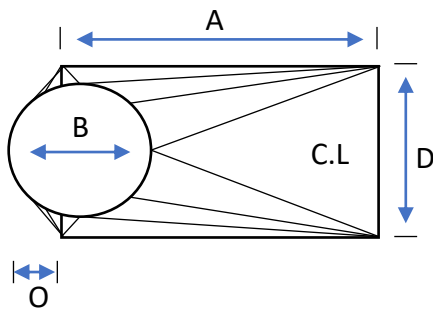
Square To Round  
Offset Measured From Left Side  
Rise Down Measure From Top  
Product # STOLRDCIS



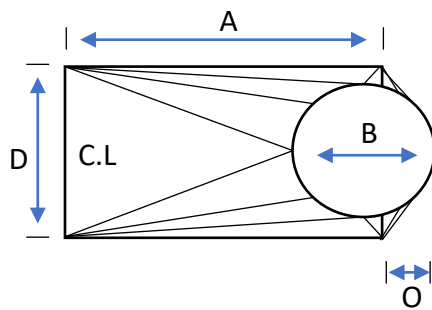
Square To Round  
Offset Measured From Right Side  
Rise Down Measure From Top  
Product # STORRDCIS

# Square To Round Offset/Riser (Circle Outside Of Square)

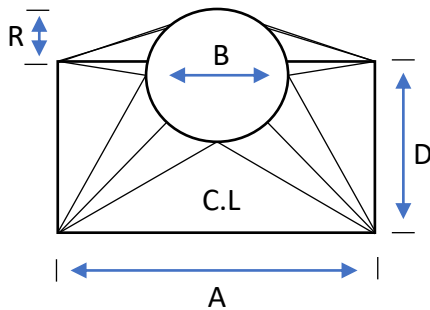
**These Square To Rounds Are Offset/Rise.  
With Circle Outside Of Square.  
The Only Thing Missing Is The Length/Height Of The Fitting.**



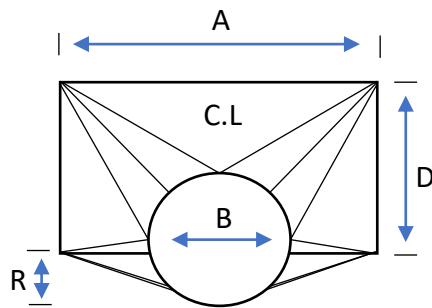
Square To Round  
Offset Left Measured  
From Left Side  
Center Line  
Product # STROLCLCOS



Square To Round  
Offset Right Measured  
From Right Side  
Center Line  
Product # STRORCLCOS



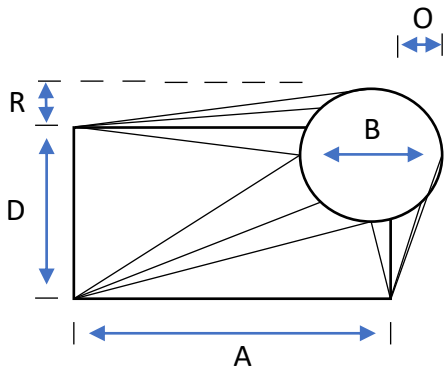
Square To Round  
Rise Up Measured  
From Top Side  
Center Line  
Product # STRUCLCOS



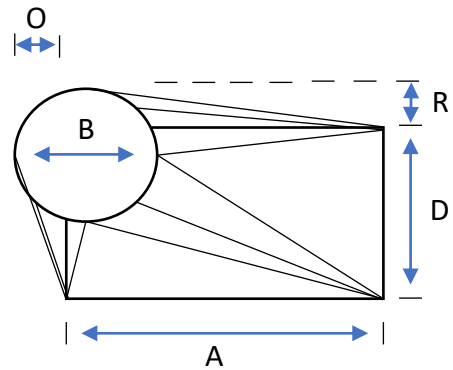
Square To Round  
Rise Down Measured  
From Bottom Side  
Center Line  
Product # STRDCLCOS

# Square To Round Double Offset (Circle Outside Of Square)

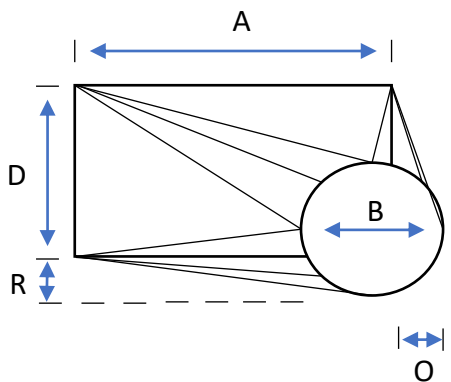
**These Square To Rounds Are Double Offsets.  
With Circle Outside Of Square.  
The Only Thing Missing Is The Length/Height Of The Fitting.**



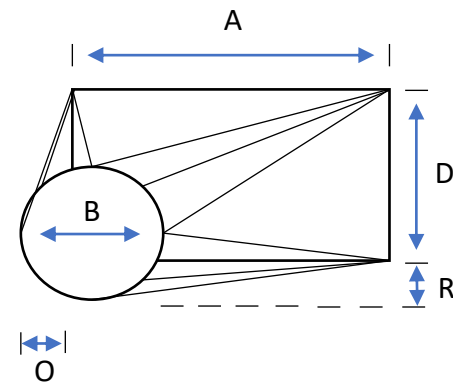
Square To Round  
Offset Measured From Right Side  
Rise Up Measure From Top  
Product # STRORRUCOS



Square To Round  
Offset Measured From Left Side  
Rise Up Measure From Top  
Product # STOLRUCOS

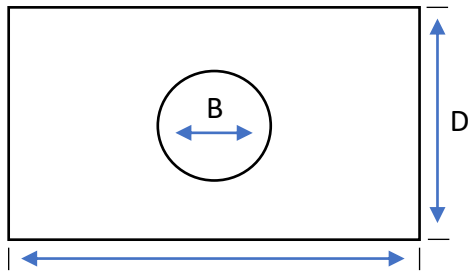
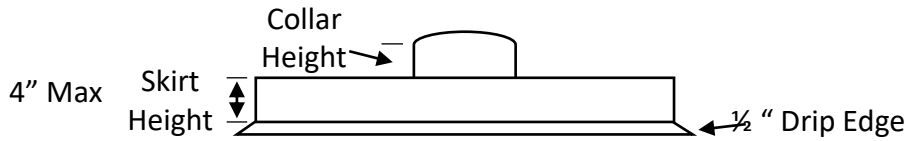


Square To Round  
Offset Measured From Right Side  
Rise Down Measure From Bottom  
Product # STRORRDCOS

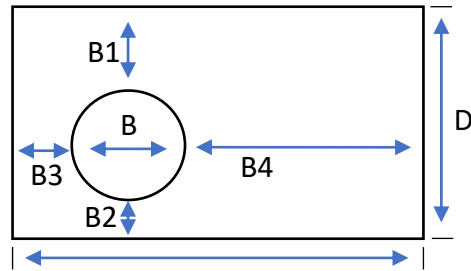


Square To Round  
Offset Measured From Left Side  
Rise Down Measure From Bottom  
Product # STOLRDCOS

# Chimney Caps & Gooseneck

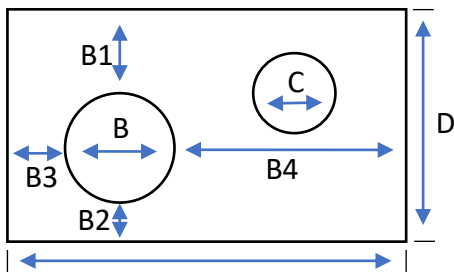


Chimney Cap Circle In Center  
Product # CCCC

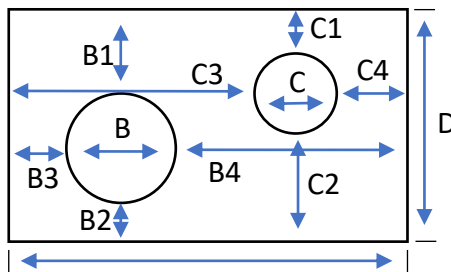


Chimney Cap Circle Off Center  
Product # CCCOC

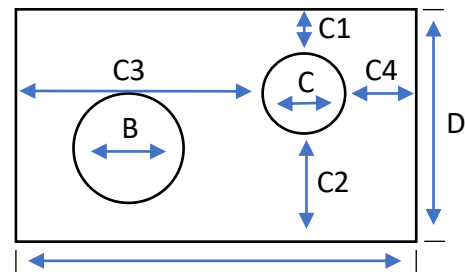
## Two Hole Chimney Caps 3 Different Views For Less Confusion



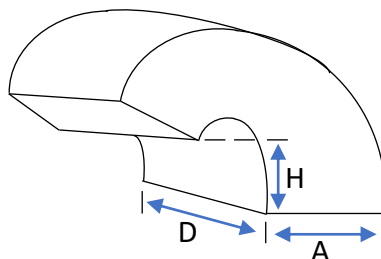
A



Chimney Cap w/Two Circles  
Product # CC2C



A



Radius Gooseneck  
A x D Both Ends  
Product # RGAD

# Terms & Conditions

Extreme Metal Works would like to take this moment and thank all of our valuable customers, for your consistent support and business.

All quotes given is valid for 30 days from date noted on proposal. Quotes do not include sales tax unless noted otherwise.

New/old customers without an open account terms has to be paid upon pick up. You are welcome to pay with cash, credit card or check. If a check bounces then you are reliable for any fees. All credit card sales will have a 3% processing fee. On any big orders there will 50% down. Remainder shall be paid upon pick up/delivery. Terms of payment are Net 30 Days, if you already have an account.

All products are made to custom order and are NON-RETURNABLE. Unless made wrong by Extreme Metal Works.

**All Sales Are Final!!**



## Miscellaneous

Blister Doors

Coil Doors

Drives

L - Channel

Picture Frame w/Screen

Saddle Taps

Standing S-Cleats

Canvas(Residential/Commercial)

Coil Pans

End Caps

Literature Racks

S - Channel

Seamless Drain Pans

Starter Collars

Code Complaint Filter Doors

Cold Air Grounds

Filter Racks

Patches w/Safety Edge

S-Cleats

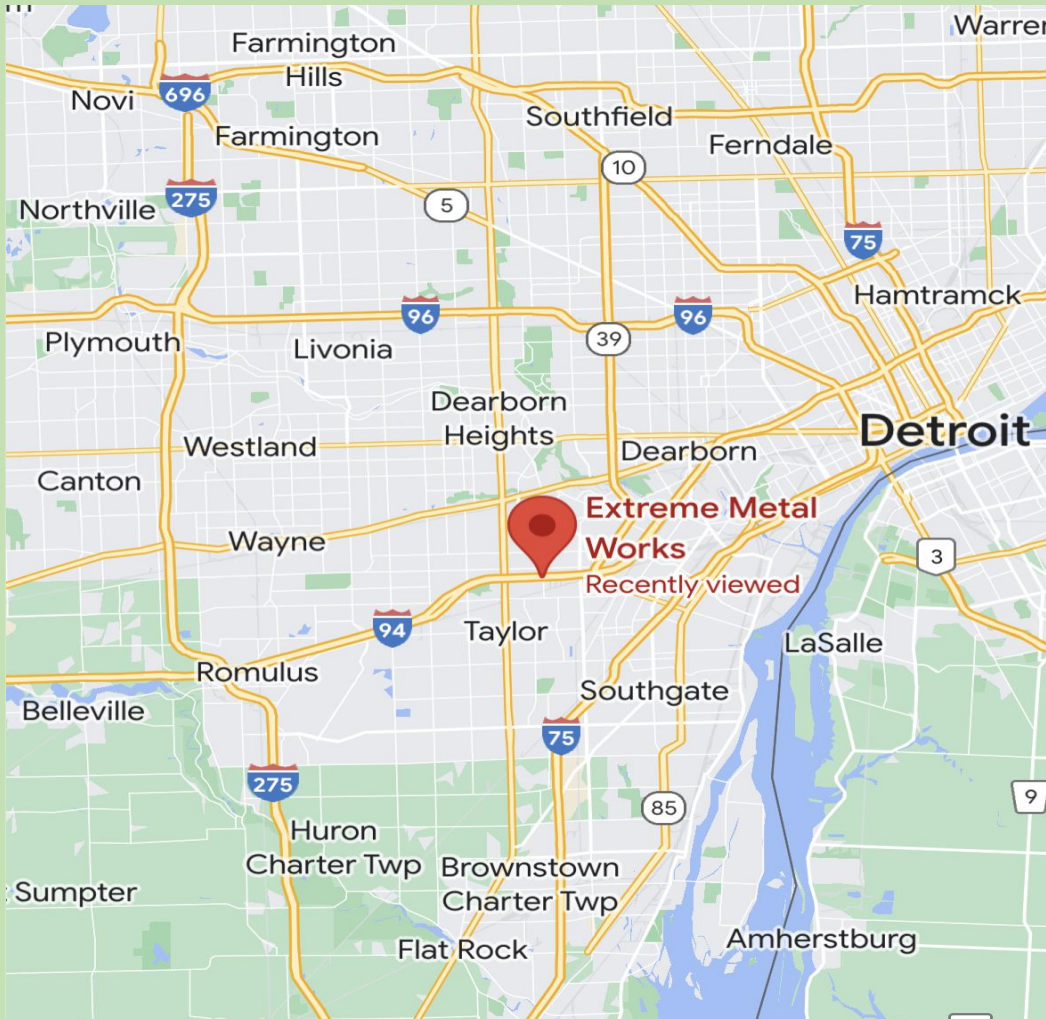
Smoke Detector Covers

U - Channel



# EMW

Extreme Metal Works



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(313) 406-5708

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