



## Epic Fire Design Catalogue

11/15/2015



***“We Are the Automated Fire Specialists”***



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## Electronic Ignition Systems for Fire Bowls / Pits / Troughs

(All Weather Electronic Ignition System - Standard Capacity)

### AWEIS SC

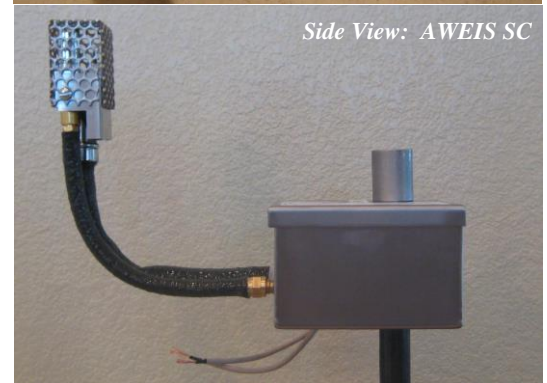
Flame / Heat Sense:	Thermopile
Ignition Type:	Hot Surface Ignition (Glow Plug)
Ignition Sequence:	Intermittent Pilot
Ignition Source:	Pilot
Max. Btu Output:	290K Btu/hr
Inlet / Outlet Size:	½" FPT
Operating Voltage:	24 volts ac
Inlet Gas Press. Limit:	2.0 psi
Valve Enclosure Dim.:	4 3/8" x 4 3/8" x 4 3/8" (tall)

The AWEIS SC is the smallest Electronic Ignition System for use in Fire Bowls and Fire Pits on the market today. Its small size, especially in height makes it the perfect match for those features that do not have much room in the vertical.

With a maximum gas output of 290K Btu/hr – which is quite a large amount of gas - it can be used in most fire feature applications. For those features requiring even more gas we have the AWEIS High Capacity system shown below.



Top View: AWEIS SC



Side View: AWEIS SC

(All Weather Electronic Ignition System - High Capacity)

### AWEIS HC

Flame / Heat Sense:	Thermopile
Ignition Type:	Hot Surface Ignition (Glow Plug)
Ignition Sequence:	Intermittent Pilot
Ignition Source:	Pilot
Max. Btu Output:	512K Btu/hr
Inlet / Outlet Size:	¾" FPT
Operating Voltage:	24 volts ac
Inlet Gas Press. Limit:	2.0 psi
Valve Enclosure Dim.:	4 ½" x 4 ½" x 5" (tall)

The AWEIS HC is a slightly larger version of the AWEIS SC in terms of physical dimension but delivers considerably more gas than its smaller counterpart.

With a maximum gas output of 512K Btu/hr – which is a very large amount of gas - it can be used in the larger fire features that require a considerable amount of gas to create the desired effect.



Top View: AWEIS HC



**Electronic Ignition Systems for Fire Bowls / Pits / Troughs**

(Continued)

**Vulcan Fire Module**

**VFM**

- Flame / Heat Sense: Thermopile
- Ignition Type: Hot Surface Ignition (Glow Plug)
- Ignition Sequence: Intermittent Pilot
- Ignition Source: Pilot
- Max. Btu Output: 25K Btu/hr
- Inlet Size: ½” FPT
- Operating Voltage: 24 volts ac
- Inlet Gas Press. Limit: 2.0 psi
- Canister Dimensions.: 2 ½” x 6 ½”

The Vulcan Fire Module is the smallest Electronic Ignition System on the market today. Its small size makes it perfect for those ‘very’ small fire features such as small bowls, rock crevices or other cylinder shaped fire features. The flame pattern the Vulcan emits is identical to our Tiki Torches as shown in the photo at right.



**Electronic Ignition System for Fire ON the Water Surface Feature**

**Automated Fire On Water Surface System**

**AFOW**

- Flame / Heat Sense: Thermopile
- Ignition Type: Hot Surface Ignition (Glow Plug)
- Ignition Sequence: Intermittent Pilot
- Ignition Source: Pilot
- Max. Btu Output: 400K Btu/hr
- Inlet Size: ½” FPT
- Operating Voltage: 24 volts ac
- Required Gas Pressure: 2.0 psi
- Valve Enclosure Dim.: 4 3/8” x 5 ½” x 4 3/8”(tall)

The AFOW is the first ever Electronic Ignition System designed for use with Fire ON the Water Surface features. Combined with a truly ‘Submersible’ manifold (see page 16) – meaning water will not get into the gas line thereby clogging it – this creates a feature that inspires awe and amazement. View this feature in action by going to the Video section of our website and selecting the video, “Auto Fire on Water Surface”.



Fire on Water Surface (Night)



Fire on Water Surface (Day)



# EPIC FIRE DESIGN

## Automated Tiki Torches

### Malama Series

Description: Stainless Steel Base and Decorative Sleeve. Three Decorative Sleeves as shown below. Electronic Ignition System (24 volt ac) housed in the base / burner components housed in the sleeve.



**Bird of Paradise**



**Bamboo**



**Plumeria**



**Bird of Paradise  
(shown on Faux Bamboo Pole)**



**Bird of Paradise  
(shown on Black Powder Coated Pole)**

# EPIC FIRE DESIGN

## Cast Aluminum Series

Description: Cast Aluminum throughout, powder coated black. Electronic Ignition System (24 volt ac) housed in the base / burner components housed in the upper section. Manual valves shown in photos below are not installed on automated versions of the torches.



**Tulip**



**Malumai**



**Gulf**

## Cone / Fin Series

Descriptions:

Copper Cone – 16 gauge Spun Copper Cone, Stainless Steel Base and Burner Section

Black Cone - 12 gauge Spun Aluminum Cone, Stainless Steel Base – High Heat Powder Coat

Fin Style – Steel Fins and Base, Stainless Steel Burner Section

Electronic Ignition System (24 volt ac) housed in the base / burner housed in the upper section



**Copper Cone**



**Black Cone**



**Fin**

# EPIC FIRE DESIGN

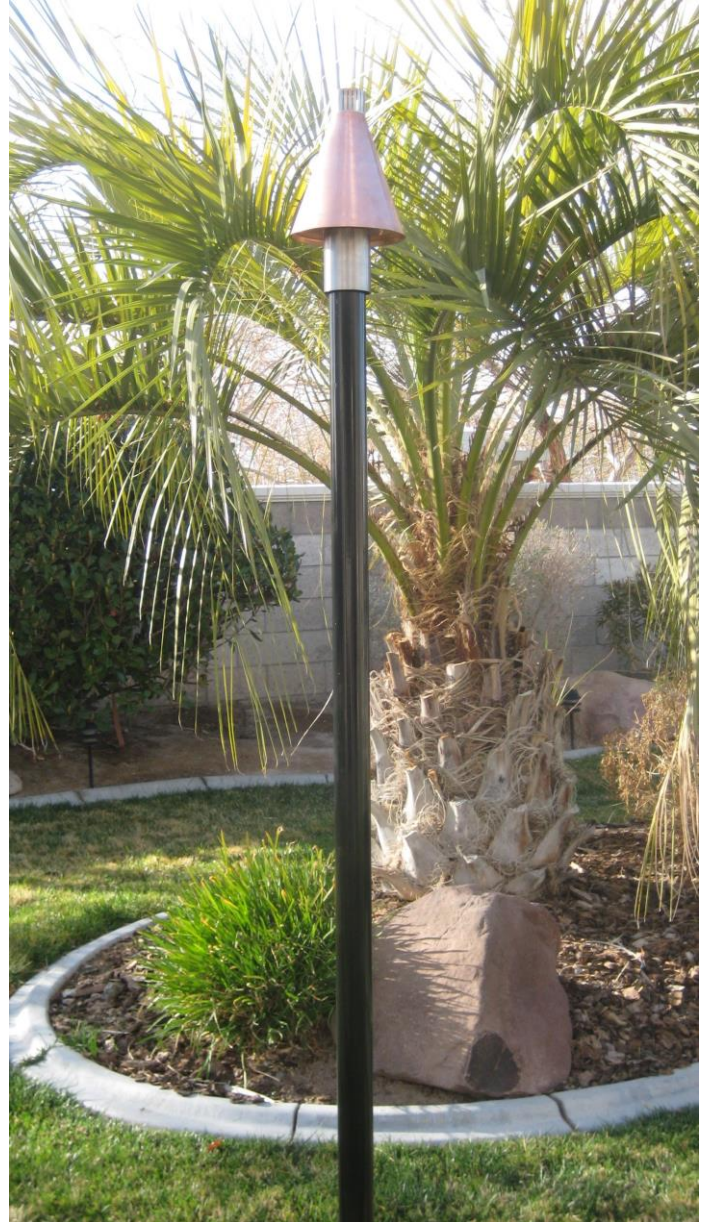
## Tiki Pole Options



**Faux Bamboo Pole**

Description: Made from Schedule 40 PVC, joints created with heat to give 'raised' texture. Pole is air brushed to look like bamboo and then sealed with a UV sealer to protect from fading.

**Note:** Faux Bamboo Poles DO NOT come with a base pole that is installed in the ground to support the faux bamboo pole that is above ground. When using the faux bamboo pole the gas line inside the bamboo pole is the support for the torch head/pole.



**Aluminum Pole, Powder Coated**

Description: Made from .065 Wall Aluminum Tubing, powder coated Black (Other Colors Available). **Excellent** Corrosion Resistance in the outdoors.

**Note:** Metal Poles DO come with a base pole that is installed in the ground to support the metal pole extending above ground. See tiki torch installation instructions for more details.

# EPIC FIRE DESIGN

## Custom Fire Features

When it comes to Custom Features – your Imagination is the only limiting factor. We can Design Fire to go just about anywhere! Here are just a few of the features we have designed and others have created. Let us Design a Custom Feature for you!



Fire / Water Bowl



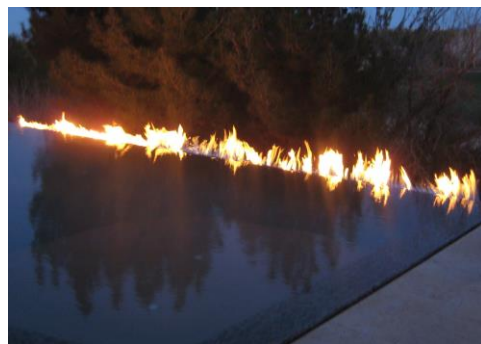
Restaurant Tiki Torches



Tiki Gods with Fire



Wall of Fire



30' Negative Edge Line of Fire



Fountain with Ring of Fire



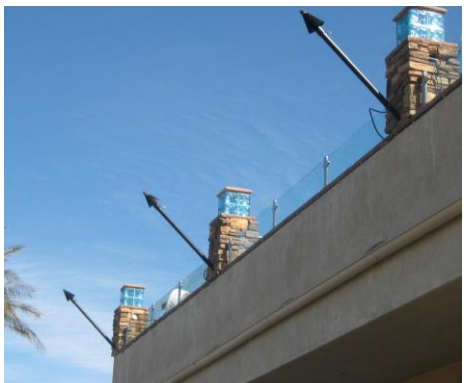
28' Fire Trough



Fountain / Firepit



Restaurant Sign with Fire



Restaurant Tiki Torches



Spa / Grotto with Firepit



Resort Extra Large Firepit





**Fire Bowls**  
(For Fire "Only" Features)

Low Profile Wok				
Item #	Top Dia.	Height	Base Dia.	Weight (lbs.)
LWS3006	30"	6"	10"	81
LWS3607	36"	7"	12"	126



Wok				
Item #	Top Dia.	Height	Base Dia.	Weight (lbs.)
WS2107	21"	7"	10"	50
WS2709	27"	9"	13"	88
WS3311	33"	11"	16"	150
WS3913	39"	13"	19"	237
WS4816	48"	16"	24"	429



Oblique (Square)				
Item #	Top Dia.	Height	Base Dia.	Weight (lbs.)
OS1805	18"	5"	6"	31
OS2407	24"	7"	8"	67
OS3008	30"	8"	10"	106
OS3610	36"	10"	12"	202
OS4211	42"	11"	14"	297
OS4813	48"	13"	16"	429



Tuscany				
Item #	Top Dia.	Height	Base Dia.	Weight (lbs.)
TUS2410	24"	10"	10"	74
TUS3013	30"	13"	14"	192
TUS3615	36"	15"	16"	289
TUS4720	47"	20"	20"	630





## Fire / Water Bowls

(For Fire and Water Features)

<b>Tuscany Scupper</b>				
<b>Item #</b>	<b>Top Dia.</b>	<b>Height</b>	<b>Base Dia.</b>	<b>Weight (lbs.)</b>
STUS2410	24"	10"	10"	73
STUS3013	30"	14"	13"	199
STUS3615	36"	16"	15"	294



<b>Oblique Scupper</b>				
<b>Item #</b>	<b>Top Dia.</b>	<b>Height</b>	<b>Base Dia.</b>	<b>Weight (lbs.)</b>
SOS2407	24"	7"	8"	72
SOS3008	30"	8"	10"	118
SOS3610	36"	10"	12"	215

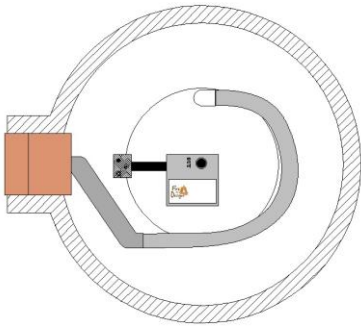


<b>Scupper Wok</b>				
<b>Item #</b>	<b>Top Dia.</b>	<b>Height</b>	<b>Base Dia.</b>	<b>Weight (lbs.)</b>
SWS2107	21"	10"	7"	52
SWS2709	27"	13"	9"	87
SWS3311	33"	16"	11"	162
SWS3913	39"	13"	19"	245



## Spillway Kit

(Required for Fire / Water Bowl Features)



Scale Drawing of the Spillway Kit installed in a WS2709 with AWEIS centered in the bowl



**Spillway Kit shown inside WS2709**  
(Spillway Kits are made to order due to the fact no two bowls have the same size spillway)



### Bowl Color Chart

All Concrete Bowls are available in the colors shown below. If you look closely you will notice on every color sample there is a “Smooth” side (left side of every sample) and a textured or “Sandblasted” side (right side of every sample). All bowls EXCEPT the Tuscany series of bowls are available in either finish. The Tuscany series is only available in Sandblasted finish.





**Fire Rings / Custom Burners**



Black Steel - Round			
Item #	Ring Size	Concentric Rings	Hub Size
FR12	12"	1	1/2"
FR18	18"	2	1/2"
FR24	24"	2	1/2"
FR30	30"	3	1/2"
FR36	36"	3	1/2"



Stainless Steel - Round			
Item #	Ring Size	Concentric Rings	Hub Size
FRS6	6"	1	1/2"
FRS12	12"	1	1/2"
FRS18	18"	2	1/2"
FRS24	24"	2	1/2"
FRS30	30"	3	1/2"
FRS30HC	30"	3	3/4"
FRS36HC	36"	3	3/4"
FRS48HC	48"	3	3/4"



Stainless Steel - Square			
Item #	Ring Size	Concentric Rings	Hub Size
FRSSQ12	12" x 12"	1	1/2"
FRSSQ18	18" x 18"	1	1/2"
FRSSQ24	24" x 24"	2	1/2"



Stainless Steel - Rectangle			
Item #	Ring Size	Concentric Rings	Hub Size
FRSR12	12" x 6"	1	1/2"
FRSR18	18" x 9"	1	1/2"
FRSR24	24" x 12"	1	1/2"



Stainless Steel - Linear	
Item #	Length
TBSS24	24"
TBSS36	36"
TBSS48	48"
TBSS60	60"
TBSS72	72"

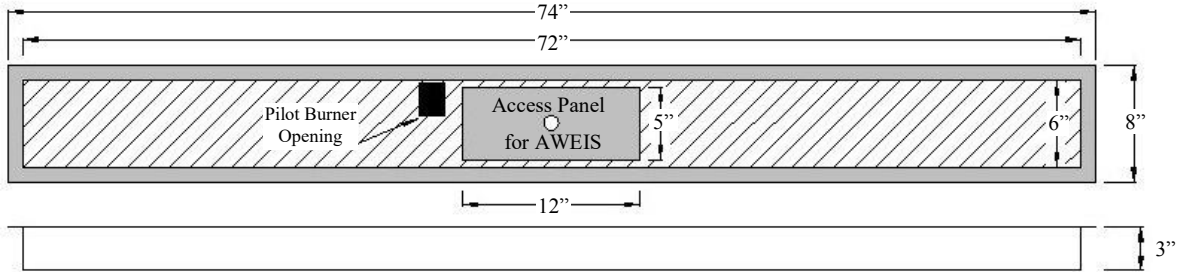
**We also offer Custom Burners in Various Shapes and Sizes (Call / Email to Inquire)**



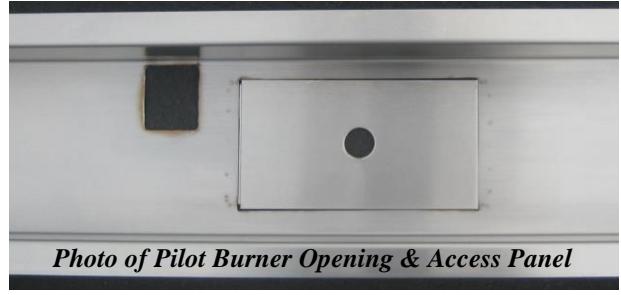
**Rectangular & Circular Burner Pans**

*Example of Typical Rectangular Burner Pan (72")*

(All Rectangular Burner Pans made of 16 gauge / 304 Stainless Steel with 1" Lip to the Outside)



*Photo of Rectangular Burner Pan*

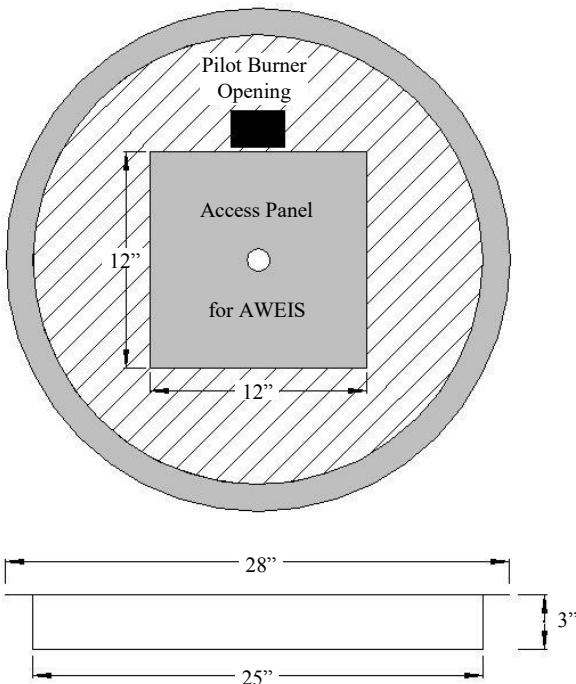


*Photo of Pilot Burner Opening & Access Panel*

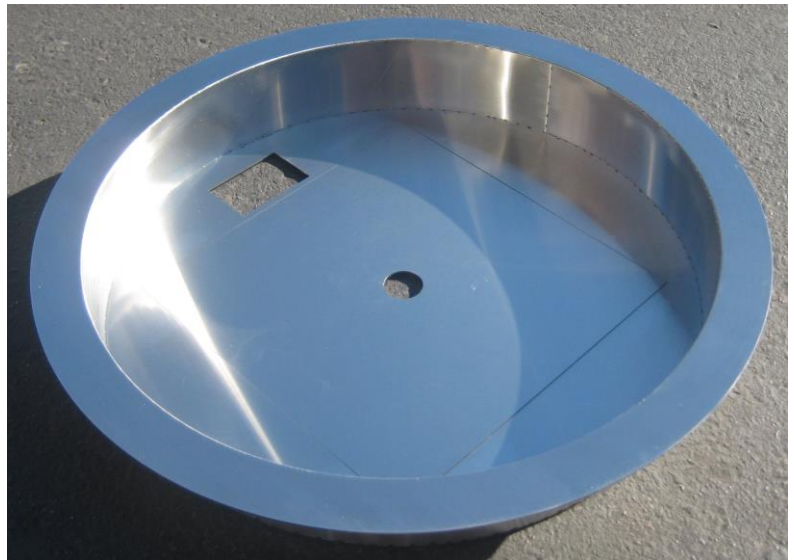
**Rectangular Burner Pans Available in 36", 48", 60", 72" & 96" Lengths**

*Example of Typical Circular Pan (25")*

(All Round Burner Pans made of 18 gauge / 304 SS with 1 1/2" Lip)



**Circular Burner Pans Available in 19", 25", 37" Inside Diameters**





**Submersible Manifolds**  
(For Fire ON Water Surface Features)



**12" Rectangular Manifold**  
(AFOW – RM12)



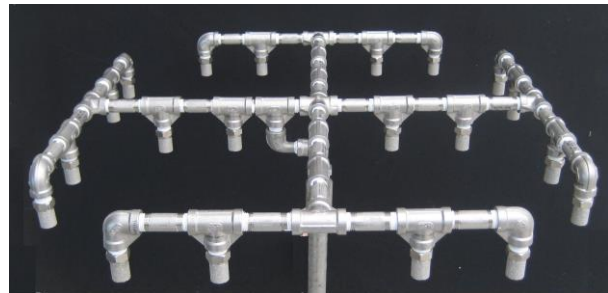
**18" Rectangular Manifold**  
(AFOW – RM18)



**7" Hexagon Manifold**  
(AFOW – HM7)



**12" Square Manifold**  
(AFOW – SM12)



**18" Square Manifold**  
(AFOW – SM18)



**4' Linear Submersible Manifold**  
(AFOW – SM 4L)

**We offer Custom Linear Submersible Manifolds in Various Lengths**



## Key Valves

The Key Valves we offer are the “1/4 turn” style. These valves are similar to a ¼ turn Gas Ball Valve with a key stem attached. This type of Key Valve permits much more gas to flow through when compared to “Gate Valve” style Key Valves available in most local hardware stores.

Key Valves are available in two configurations; Straight or Angled. Photos of each are shown below.

Key Valves are available in two sizes; Standard or High Capacity. Standard Key Valves have ½” FPT threads on both inlet and outlet and will permit 150K Btu/hr. High Capacity Key Valves have a ¾” FPT threads on both inlet and outlet and will permit 300K Btu/hr.

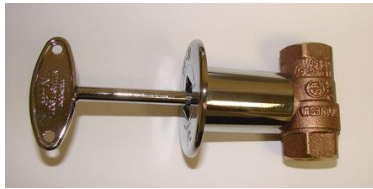
Key Valves are available in all 6 colors shown at right.



Antique Brass



Antique Copper



Straight Key Valve



Angled Key Valve



Brass



Chrome



Flat Black


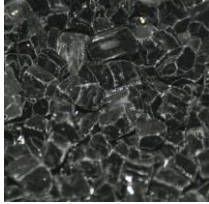

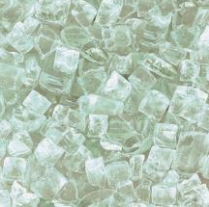


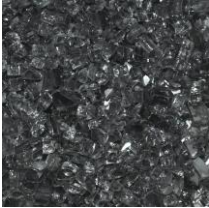













Pewter

<b>Key Valves</b>			
<b>Standard Capacity (1/2" FPT / 150K Btu/hr)</b>			
<b>Straight</b>		<b>Angled</b>	
<b>Item #</b>	<b>Color</b>	<b>Item #</b>	<b>Color</b>
MSBB	Brass	MABB	Brass
MSCB	Chrome	MACB	Chrome
MSAB	Antique Brass	MAAB	Antique Brass
MSAC	Antique Copper	MAAC	Antique Copper
MSFB	Flat Black	MAFB	Flat Black
MSPW	Pewter	MAPW	Pewter
<b>High Capacity (3/4" FPT / 300K Btu/hr)</b>			
<b>Straight</b>		<b>Angled</b>	
<b>Item #</b>	<b>Color</b>	<b>Item #</b>	<b>Color</b>
MSBB HC	Brass	MABB HC	Brass
MSCB HC	Chrome	MACB HC	Chrome
MSAB HC	Antique Brass	MAAB HC	Antique Brass
MSAC HC	Antique Copper	MAAC HC	Antique Copper
MSFB HC	Flat Black	MAFB HC	Flat Black
MSPW HC	Pewter	MAPW HC	Pewter





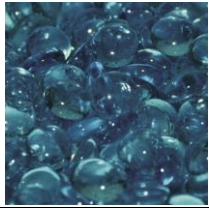

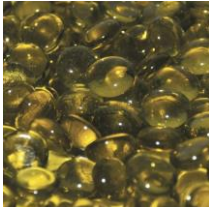

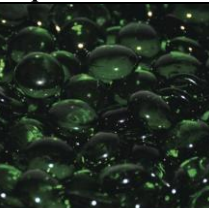


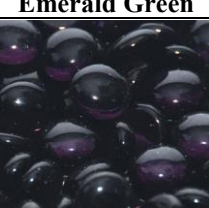
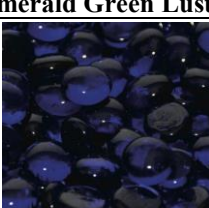
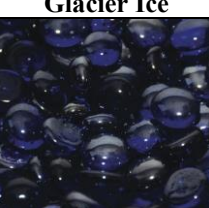
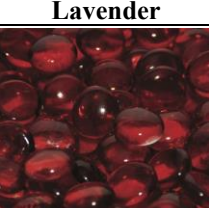


**Fireglass**

<b>Classic Collection</b> (Average Size: ½")		
		
<b>Azuria</b>	<b>Black</b>	<b>Bronze</b>
		
<b>Clear</b>	<b>Copper</b>	<b>Evergreen</b>
		
<b>Gray</b>	<b>Pacific Blue</b>	<b>Starfire</b>

<b>Premium Collection</b> (Average Size: ½")		
		
<b>Black Reflective</b>	<b>Bronze Reflective</b>	<b>Cobalt Blue Reflective</b>
		
<b>Copper Reflective</b>	<b>Evergreen Reflective</b>	<b>Gold Reflective</b>
		
<b>Gray Reflective</b>	<b>Pacific Blue Reflective</b>	<b>Starfire Reflective</b>



# EPIC FIRE DESIGN

<b>Firebead Collection</b> (Average Size: 3/4")		
		
<b>Apricot</b>	<b>Apricot Luster</b>	<b>Aqua Blue</b>
		
<b>Aqua Blue Luster</b>	<b>Caramel</b>	<b>Caramel Luster</b>
		
<b>Emerald Green</b>	<b>Emerald Green Luster</b>	<b>Glacier Ice</b>
		
<b>Lavender</b>	<b>Royal Blue</b>	<b>Royal Blue Luster</b>
		
<b>Sangria</b>	<b>Sangria Luster</b>	<b>Twilight</b>

### **Tips on Purchasing/Installing Fireglass/beads**

Fireglass/beads are only meant to be a Decorative “Topping” for a fire feature. For this reason you only need to purchase enough to create a layer approximately 1 1/2” in depth. Underneath the fireglass/beads another filler material (such as lava rock) will be used to fill up the bowl to the level of the fire ring. We recommend then installing a screen material over the fire ring / lava rock to separate the fireglass/beads from the material below. Stucco lathe for ceiling works very well as a screen material and is available in local hardware stores. Once you have the screen material in place, simply pour the fireglass/beads on top.

To calculate ‘how much’ fireglass/beads you need to purchase, first calculate the surface area of the fire feature (in square feet). As an example, a round fire bowl that is 36” in diameter, has a radius of 18”. Using the equation  $\pi (3.14) \times (\text{radius}) \times (\text{radius}) = 3.14 \times 18 \times 18 = 1017$  sq. inches. Since we need to find the surface area in square feet we divide 1017 by 144 (144 square inches per square foot). This results in a surface area of 7 square feet. Multiply 7 square feet by 15 lbs. and you know you need 105 lbs. of glass.