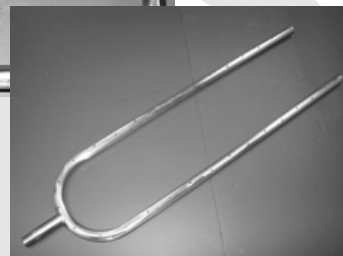
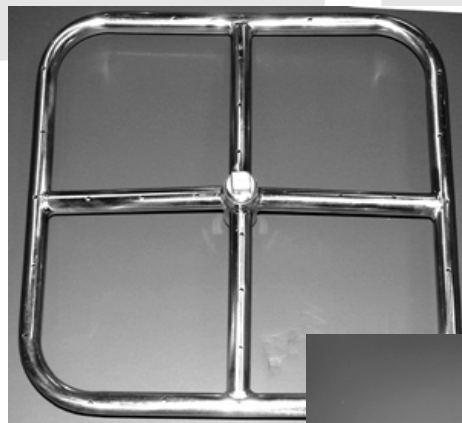




# MATCH LIT FIRE PIT



# SAFETY MANUAL

INSTALLATION & OPERATION INSTRUCTIONS



**READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION. FAILURE TO FOLLOW INSTRUCTIONS AS DETAILED WILL VOID YOUR WARRANTY AND MIGHT RESULT IN A FIRE HAZARD.**

Instructions are also available at [www.firesidexpressions.com/install-center](http://www.firesidexpressions.com/install-center). Instructions are updated as needed. It is the installer's responsibility to periodically review instructions for applicable updates.



**PLEASE FOLLOW THE GUIDELINES BELOW FOR THE SAFE USE AND CARE OF YOUR FIRE PIT:**

- **FOR OUTDOOR USE ONLY**
- **Do not** store or use gasoline or other flammable vapors and liquids in vicinity of this or any other appliance.
- Liquid propane (LP) cylinders not connected for use **must not be stored in the vicinity** of this or any other appliance.
- **IF YOU SMELL GAS:**
  - 1) **Shut off** gas to appliance.
  - 2) **Extinguish** any open flame.
  - 3) If odor continues, **keep away** from appliance and immediately **call gas supplier or fire department**.
- We suggest that our products be installed by professionals that are locally **licensed by the authority having jurisdiction in gas piping**.
- We suggest that our products be serviced by a professional **certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists**.



# GENERAL INFORMATION

## Icon Key:

	=	<b>WARRANTY REQUIREMENT</b>	Must be strictly followed to qualify for product warranty
	=	<b>IMPORTANT</b>	Notes and insights to help ensure product satisfaction and serviceability

**It is the installer's responsibility** to ensure a safe installation and to educate the end user as to proper operation. Leave this manual with the end user.

**Never** alter product or configuration in any way.

### REMOTE CONTROL USE:

To prevent accidental start-up from unwanted RF signals it is the responsibility of the end user to turn off power to electric outlet for the remote control receiver when the fire-pit is not in use via wall switch or breaker.

**Installer must follow all instructions carefully** to ensure proper performance and safety. CJ's Home Decor & Fireplaces LLC is not responsible for your actions.

Product is **not intended** to be a starter for wood or any other combustibles.

**It is the responsibility of the installer** to follow ALL LOCAL CODES concerning the installation and operation of the fire pit. In the absence of local codes, please follow:

**Fixed piping system:** The National Fuel Gas Code, ANSI Z223.1/NFPA 54 or International Fuel Gas Code.

**Electrical ground:** The National Electrical Code, ANSI/NFPA 70.

**Only use gas/fuel type specified for this fire pit** (see label on the fire pit control box). Verify correct gas/fuel type and pressure. **Never use an alternative fuel** to include bio-fuel, ethanol, lighter fluid or any other fuel. Gas pressure and type **should be checked prior to use and installation**.

### Natural Gas Fire Pit:

Supply Pressure: Minimum: 3.5" W.C.; Maximum: 7.0" W.C.

Outlet Pressure: 3.5" to 5.0" W.C.

### LP Gas:

Supply Pressure: Minimum: 8.0" W.C.; Maximum: 15.0" W.C.

Outlet Pressure: 10.0" to 12.0" W.C.

# LIMITED WARRANTY

CJ's Home Decor & Fireplaces warranties Fireside Expressions fire pits against manufacturing defects that prevent safe and correct function as follows:

- Electronics, Gas Valve, & Pilot Assembly: Commercial-6mos; Residential- 1 yr.
- Stainless Steel Pan, Fire Ring, & Valve Box: Commercial-1yr.; Residential 3yrs.

This commences from the date of original sale / shipment from CJ's Home Decor & Fireplaces in Warren, PA. This warranty is for parts and in-house (CJ's) labor. The defective product must be sent back to CJ's with a Return Merchandise Authorization (RMA) issued by CJ's for that specific product and any other additional information for the nature of the defect or warranty claim. The warranty does not cover items that have been damaged by overheating, modification, abuse, or improper storage. Also any labor involving installation or maintenance with the unit is not covered. This warranty excludes claims for consequential, indirect-collateral expenses arising from product defects or warranty recovery.

## REFERENCE INFORMATION

We recommend that you staple your receipt to this page, fill out the fields below for your future reference, and keep these instructions in a safe place.

Purchase date:	
Model purchased:	
Name of installer:	Date of Installation:
Street Address of Installer:	Installer Phone #:
City, State of Installer:	Zip Code:
Your notes & remarks:	

If you have questions or comments about this document, please contact:

**CJ's Home Decor & Fireplaces**  
**21701 Route 6**  
**Warren, PA 16365**

Call toll-free **1-888-986-1535** or email **support@cjshearthandhome.com**

# SELECTING THE LOCATION

- All fire pits, match lit kits, spark ignition, safety pilot and electronic ignition systems are designed and intended for outdoor use only.
- For electronic ignition models there must be an electrical shut off ( wall switch or breaker ) on the exterior of the fire pit or on adjacent wall to allow for emergency shutdown and maintenance.
- All fire pits must have a gas shutoff on the outside of the exterior of the fire pit to allow for emergency shut off and maintenance.
- Select a location where the fire pit can be attended during operation. Never leave an operating fire pit unattended or by someone not familiar with its operation or emergency shut off locations.
- Both children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns and clothing ignition.
- Young children should be carefully supervised when they are in the area of fire pit.
- Clothing or other flammable materials should not be placed on or near fire pit.
- Fire pits create very high temperatures - Combustibles must be located far enough away that there is no risk of ignition.
- Overhead Clearance applies to tree limbs and branches only- DO NOT install unit under overhang or ceiling.

**⚠** It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. Manufacturer is not responsible for damage.

- **FIRE PIT CLEARANCES:**

Under Valve Box When Applicable 6"

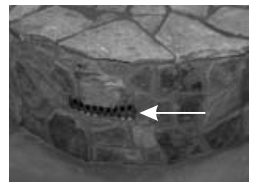
Sides Surrounding Fire Pit 48"

Overhead Clearance 120"

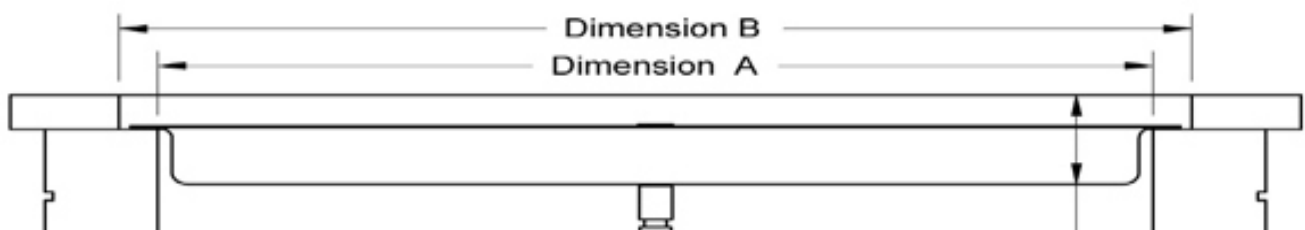
- The gas line should be a **minimum of 3/4"** or larger based on fire pit size and distance from fuel source.
- Select a location **with good drainage**.
- Choose a location that allows **easy access for installation and maintenance** of the fire pit.

# CONSTRUCTION OF THE ENCLOSURE

- For electronic ignition models there must be an electrical shut off ( wall switch or breaker ) on the exterior of the fire pit or on adjacent wall to allow for emergency shutdown and maintenance. Verify correct 110VAC or 24VAC Supply.
- All fire pits must have a gas shutoff on the outside of the exterior of the fire pit to allow for emergency shut off and maintenance.
- Always use proper materials and construction for gas supply, power and enclosure.
- The enclosure must incorporate 1 vent on at least two opposing sides (2 vents total) at a minimum size of 18 sq. inches each (Example: 3"x 6" or larger). Ventilation allows for heat and or residual fuel to escape. Failure to properly vent enclosure may result in the fire-pit overheating or explosion. For electronic ignition systems the fire pit will automatically shut down when internal valve box temperature reaches 175° F and will automatically restart when temperatures drop below 175° F . Overheating could lead to heat damage to internal components. Some enclosures may require more ventilation based on material, size, and extended use. The vent may work as a drain as well when installed at bottom sidewall to prevent water build up.
- The interior void space of the enclosure surrounding the valve box cannot be filled with any material (gravel, crushed rock, concrete, etc.)- It is a requirement to have a minimum of 6" under the valve box for proper ventilation.
- Select materials that are non-combustible in both initial installations as well as over time.
- The fire pit assembly should be recessed a minimum of 2.25" from the top of the enclosure to protect flame from being blown out. Some areas may require more- 4 to 6" is not uncommon.
- The enclosure must be constructed on a stable surface. The weight of the fire pit must be supported by the pan and not by any control/valve box. For electronic ignition models the control/valve box must be above grade with adequate drainage to prevent water damage to the controls inside the box.
- Make sure that the structure is level. We recommend the use of the installation collar (optional) that may be mortared into the surround.
- CJ's recommends that the pan lip is recessed on trough (linear), and large round products as illustrated below. CJ's cannot guarantee the lip on all of our products will be perfectly flat and will not warp due to heat.



**VENTS = 2 TOTAL**



# ASSEMBLY

## PARTS LIST

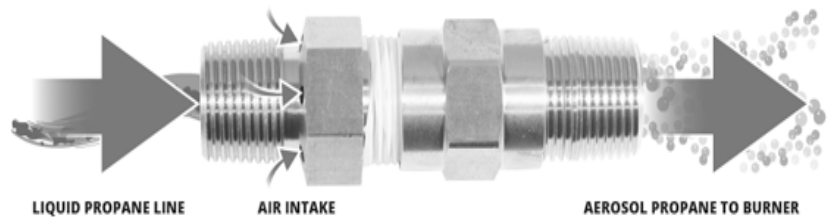
## INCLUDED

## REQUIRED (NOT INCLUDED)

BURNER	✓	
PAN		✓
PROPERLY-SIZED ORIFICE FOR NATURAL GAS	< 300 K	
PROPERLY-SIZED AIR MIXER FOR PROPANE	LP ONLY	
COUPLER		✓
FLEX LINE OR NIPPLE		✓
KEY VALVE		✓
FLARE FITTINGS		✓
ELBOW		✓
LAVA ROCK		✓

- If a fire ring or "T burner" will be used indoors it is the installer's responsibility to follow all regulations, local codes and achieve independent certifications.
- Confirm "Gas In" is towards control valve or shutoff valve. Installing backwards will result in severe gas leak and risk of explosion.
- A pan must be used on LP systems and configured in way to minimize fuel settling below the pan. Failure to do so may result in personal injury or explosion.

- 1) Ensure gas to the fire pit location is shut off.
- 2) Remove parts from packaging material.
- 3) Read Instructions.
- 4) Call Manufacturer for clarification as needed.
- 5) Inspect the Burner for any signs of damage or corrosion.
- 6) Apply pipe dope or gas rated tape to all threads.
- 7) Hard pipe valve to burner.
- 8) Perform leak test on all fittings and back pressure checks for LP with media installed.



### NATURAL GAS BURNER ASSEMBLY SEQUENCE:



T-BURNER ► COUPLER ► ORIFICE ► ELBOW ► NIPPLE

OR

NIPPLE ► ELBOW ► ORIFICE (UNITS <300K) ► BURNER



### LIQUID PROPANE (LP) GAS BURNER ASSEMBLY SEQUENCE:



T-BURNER ► PAN ► COUPLER ► AIR MIXER ►  
COUPLER ► ELBOW ► NIPPLE

OR

► AIR MIXER ► COUPLER ► PAN ► BURNER  
NIPPLE ► ELBOW ► COUPLER

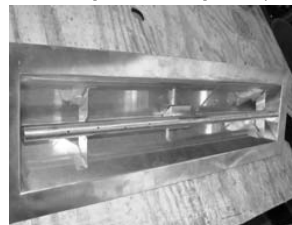


Use adjustment nut (if supplied) on air-mixer for desired flame pattern. Threading nut clockwise will close air-mixer openings and result in sooty flame. Normally this nut is open (counterclockwise) for cleanest flame.

# ASSEMBLY

## (CONTINUED)

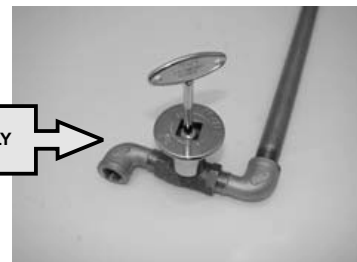
For Trough products, ensure that the 2 burner brackets, center bracket, and punch-out plate (for LP) are installed as shown:



FPS KEY VALVE ASSEMBLY SEQUENCE (for natural gas or LP):

NIPPLE ▸ ELBOW ▸ VALVE ▸ ELBOW ▸ GAS SUPPLY

- 1.) Connect fuel supply line to key valve.
- 2.) Perform leak test as described in this manual.
- 3.) Install unit in enclosure. To reduce whistling, ensure that the flex line has no sharp bends.



# INSTALLATION OF A FIRE PIT

- We suggest that our products be installed by professionals that are locally licensed by the authority having jurisdiction in gas piping.
- Confirm this appliance is built for gas used – natural gas or LP. Do not use natural gas appliance with LP or LP appliance with natural gas. Refer to the label on the appliance.
- Gas Plumbing Connections: Use only joint compound or tape that is resistant to all gases. Apply joint compound to all male pipe fittings only- DO NOT use on FLARED fittings. Be sure to tighten every joint securely.
- For systems with an extended or detached valve box the area in which the valve box is installed must conform with all installation requirements to include but not limited to location, construction, venting and local codes. Failure to do so may result in personal injury property damage or explosion.



Electronic Ignition fire pits come with a 13" x 13" sheet of insulation between pan and valve box to protect internal components from heat damage. This may need to be trimmed on smaller enclosures for proper fit. Please use insulation at all times. Warranty is void if valve box is opened

- 1.) Purge gas lines of air.
- 2.) Perform all leak test with leak detector or leak reactant.
- 3.) Verify correct gas type and pressure.
- 4.) Perform leak test on main gas supply. Repair leaks as necessary.
- 5.) Shut Off Gas Supply and Power to fire-pit.
- 6.) Connect fire-pit to main gas supply. If using flex line avoid sharp bends with flex line to prevent whistling.
- 7.) Turn on gas supply and perform leak test on all inlet connections. Repair as needed.
- 8.) For electronic ignition models hook up proper 110VAC or 24VAC electrical power following all local codes.
- 9.) On electronic ignition models The 3' power cord can be either tied into the main power supply for use with wall switch or plugged into remote receiver to use remotely.
- 10.) Position fire pit safely with access to all gas connections for testing.
- 11.) Light fire pit. It may take several cycles to purge air from the lines.
- 12.) Once fire pit is lit perform leak test on all gas connections. Repair as needed.
- 13.) Turn off fire pit and allow to cool.
- 14.) Apply media as described in the section "MEDIA."
- 15.) Turn on fire pit again and perform leak test with media correctly installed. If gas leak is detected verify correct media application and repair as needed.
- 16.) If trimmer valve is installed adjust flame to desired height. Never alter the product configuration
- 17.) Set fire pit in properly constructed enclosure.
- 18.) Verify correct operation and lighting.
- 19.) Review safety manual with end user and instruct not to change/ modify fire pit or media.
- 20.) Leave manual with end user.



⚠ On electronic ignition models please apply the Start Up and Shutdown decal next to control switch in an obvious position.

# MEDIA

## FOR GLASS MEDIA USAGE WITH LP GAS:



When using approved decorative glass to cover burner, **APPLY ONLY ENOUGH TO HIDE THE BURNER.** Applying over 1/2" may create back pressure and gas leakage from air mixture resulting in LP pooling under fire pit.



**THE UNIT MUST BE TESTED** with media over the burner for confirmation of **NO BACK PRESSURE** causing gas to leak out of air-mixer venturi holes. This may have to be done prior to placing it in the enclosure if there is no access door. **FAILURE TO DO SO MIGHT RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.**

## LAVA ROCK & GLASS APPLICATION

Please follow the instructions below to add the finishing touch to your fire pit. Remember the deeper your lava rock or glass the more risk of reducing if not smothering the flame. Particular attention needs to be on the pilot assembly area. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.

### LAVA ROCK APPLICATION:

- 1.) Install your fire pit per instructions



- 2.) Apply lava rock ONLY deep enough to cover ring and pan – less than 2" above fire ring.



### FOR ELECTRONIC IGNITION:

Do not cover blowout box vents or opening with lava rock – leave open. Do not allow any rock to block flame opening. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.

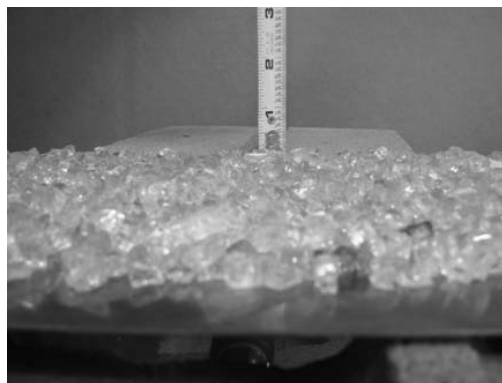


### DECORATIVE GLASS APPLICATION:

- 1.) Install your fire pit per instructions.

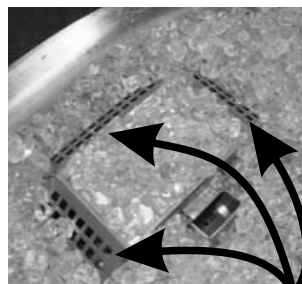


- 2.) Fill pan with glass. Cover burner with 1/8" to 1/4" of glass. Do not overfill with glass. All LP installations must be checked for back pressure with media installed.

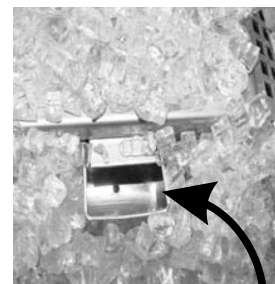


### FOR ELECTRONIC IGNITION

Do not cover blowout box vents or opening with glass. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.



**DO NOT COVER VENTS!**



**DO NOT COVER PILOT OPENING!**



# FIRE PIT OPERATION

Before use, be sure to test all gas connections for leaks. Do not use fire pit if there is any evidence of leaking gas. If leaking gas suspected, turn off the main gas supply and repair immediately.

Do not use fire pit if any part has been submerged under water. Immediately call a qualified service technician to inspect the fire pit and to replace any part of the control system and gas control which has been under water.

For electronic ignition models power to fire pit must be turned off via wall switch or breaker when not in operation.

Never use any material that is non-porous and holds moisture such as gravel, pebbles, river rock, etc. This material, when heated will cause the trapped moisture to boil and fracture unexpectedly. This material is not sufficiently porous to allow heated steam to readily escape which can break and cause personal injury or damage.

Solid fuels shall not be burned in the fire pit. Leaves, sticks, wood, paper, clothing, food material, should be kept away from the fire pit. Make sure that there is no vegetation or other objects over the top or sides of the fire pit that could interfere with safe operation. See clearances in section 2 Selecting the Location.

If lava rock is wet, allow fire pit to burn for 45 minutes prior to coming within 15 feet of the fire pit.

When fire pit is not in operation turn off gas valve.



When not in use the fire pit must be covered at all times.



Initial Start-up: It may be necessary to purge air in gas lines after system installation.

## **START UP**

1. **STOP! Read the safety information on “What to Do If Smell Gas” (Pg. 1).**
2. Confirm there is no debris in fire pit (as mentioned in warnings).
3. Place long handled lighter or match while burning on top of the fire pit.
4. Slowly Turn “ON” gas valve.
5. After burner lights remove flame.
6. Adjust flame to desire height.
7. If burner does not light turn valve off and allow gas to clear then repeat steps 1 ~ 6
8. Never alter the design of the fire pit.
9. Never leave fire pit unattended by an adult that is familiar with emergency shut-down.
10. Flammable materials should not be placed on or near the fire pit.
11. Children should be supervised when they are in the vicinity of the fire pit.
12. Inspect the fuel supply connection (including all quick disconnect hoses) before use.
  - a. Replace hose is there is evidence of abrasion or wear.
13. The proper hose and regulator must be used. Do not alter or change.
14. Only use “US Department of Transportation” Approved LP cylinders.
15. LP gas cylinder supply system must be properly vented.
16. Turn off LP cylinder when not in use.

## **SHUTDOWN**

1. Turn “OFF” gas valve.
2. Turn OFF LP cylinder when applicable
3. After cooling cover fire pit.

# MAINTENANCE

Any guard or protective device removed for servicing must be replaced prior to operating the fire pit.

Installation and repair should be done by a qualified service person. Fire pits should be inspected prior to use and at least annually by a qualified service person.

Ensure gas and power (if applicable) are shut off and fire pit is cool before servicing.

Keep fire pit covered at all times when not in use.

Keep any debris out of fire pit- clean as needed.

## **RING CLEANING:**

(Once every year) If flames exhibit any abnormal shapes or behavior, or if burner fails to ignite properly, then the burner holes may require cleaning. The appliance can be cleaned by carefully removing the logs and media to allow access to burner. Use a brush to carefully remove dust, spider webs, and loose particles from base, logs, and fire ring itself. If evidence of damage, fire ring must be replaced with fire ring specified by manufacturer.

### **SERVICE**



We suggest that our products be serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.

# TROUBLESHOOTING

Below are some potential causes and countermeasures to the symptoms indicated in bold. Please contact your retailer or certified technician for service & repair.

Below are some potential causes and countermeasures to the symptoms indicated in bold. If still unable to resolve issue, please contact your retailer or certified technician.

## **WILL NOT LIGHT**

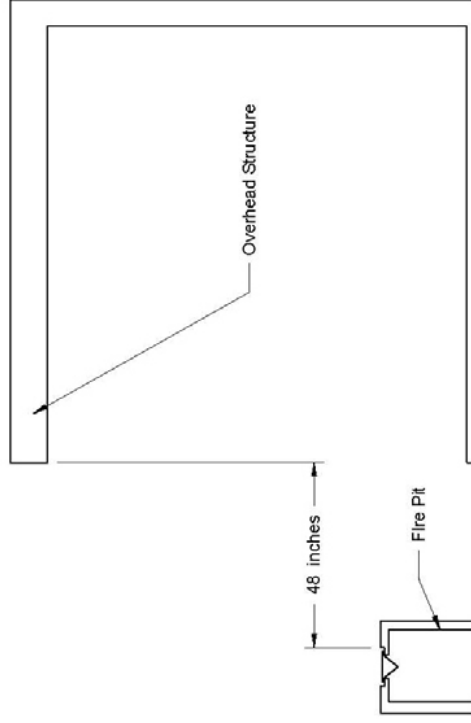
1. Air in gas line. If new install, may take several attempts to purge air
2. Debris in gas line. Confirm gas line is clear (insulation, dirt, plastic, excessive pipe sealer etc..)
3. Gas Pressure Improper Confirm proper gas pressure found (Section 1)

## **WILL NOT STAY LIT**


1. Gas Pressure Improper Confirm proper gas pressure found (Section 1)
2. Improperly applied media Review Media in (Section 5)

## **NOISE**

1. Whistling Sound Change Flex line routing.



**CJ's**  
HOME DECOR & FIREPLACES

	DRAWN	DATE	<div> HOME DECOR &amp; FIREPLACES</div>	REV
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	Q.A.			
	MFG		SIZE A	FSCM NO. DWG NO.
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