

ASSEMBLY & INSTALLATION SHEET

FOR TRENDZ OUTDOOR FIREPLACES

A Trendz Fireplace is a precast concrete structure with a steel fire box insert.



Burton



Mini Burton



Douglas



Hudson

TOOLS & COMPONENTS REQUIRED

Installation Task	Applicable Models	Mechanical lift (HIAB)	Mechanical lift (Sackbarrow/ bottlejacks)	2 Man lift	1.3 ton swiftlift clutch	Ladder (heights over 1.5mtr)	Concrete Infill (Volume)	Wheel Barrow/ Trowel	Concrete drill with 10mm bit	Crescent/ Socket				Hex key/ Driver bit 5mm	Phillips screw driver
										13mm	15mm	16mm	19mm		
Fireplace Structure															
(Concrete)	Douglas	Y			2***	Y	0.3****								
	Hudson	Y			2***	Y	0.3****								
	Burton	Y			2***		0.4****		Y		Y*****				
	Mini Burton	Y			2***		0.25****		Y		Y*****				
Firebox Insert															
(Steel)	All Models			Y								Y			Y
Woodbox															
(GRConcrete)	All Models	Y*	Y**	Y					Y	Y					
(Steel)	Burton, Mini Burton	Y*		Y					Y	Y				Y	
Hearth															
(GRConcrete)	All Models		Y**	Y									Y		
(Concrete- polished)	All Models	Y*	Y**	Y									Y		
Chimney															
(Concrete)	Burton	Y			2***	Y							Y		
Extension Blocks															
(Concrete)	Douglas, Hudson	Y			2***	Y		Y							
Plinth															
(Concrete)	All Models	Y			4***				Y		Y				

* Items are typically delivered with concrete fireplace structure. It may not suit to position these items into final location at time of fireplace install, however it helps to use mechanical lift to place them nearby for an easier 2 man lift into final position.

** A sackbarrow will help to move GRC Woodboxes into position without damaging corners (Especially if already plastered). Bottlejacks and support blocks are required to support weight of concrete hearths while aligning bolts.

*** Ensure your crane/ HIAB provider supplies these (Hudson requires 2 x 2.5 ton).

**** Only required if your installation uses infill rather than anchor brackets (see relevant 'Trendz Precast Fireplace Design' Engineers drawings for spec for your fireplace). Due to volumes required Trendz recommends using concrete from a local ready-mix supplier.

***** This is for when the fire is coming with foundation brackets.

CRITICAL NOTES FOR ALL FIRE INSTALLATIONS

Please ensure these are read and understood prior to commencing your fireplace installation! We strongly recommend that the installation of our fireplaces should be carried out by a professional builder or landscaper.

- 1. All fires must be installed on a concrete footing to specifications provided in the 'Trendz Precast Fireplace Design' documents.** The relevant engineers' drawings* will be provided on request. *NOTE: For existing pads refer to note 4 below.
- 2. Ensure the concrete footing is poured on firm ground, constructed to the dimensions and strength rating recommended.** Allow time for concrete to cure prior to fire install. If the concrete pad is not flat, plastic shim packers may be used to ensure fireplace is installed level and plumb.
- 3. Most fireplace models are poured with a slight taper on the front and side faces.** To ensure your fire is installed level, use a spirit level on a top flat surface.
- 4. Existing concrete slabs may be used at client's discretion for outdoor installations** (if unattached to any building/structure) however this may void warranty as it doesn't fall within Trendz design spec. Pre-existing pads will need to be a larger footprint than your new fire (+ Wood boxes). We would recommend an extra 100mm + on each side.
- 5. Do not use rapid-set bagged concrete for any part of the fireplace install.** These products tend to expand as they cure and can cause cracking of the fireplace structure. A standard 6:1 ratio mix (25Mpa) is recommended for foundations and concrete infill of fireplace.
- 6. Concrete infill (if required) should not be completed until hearth (optional) is installed.** This will not be required if your fireplace has come with the fire box assembled and has foundation brackets.
- 7. The fire should be placed at least 50mm from any combustible material.** Refer to the fireplace spec document for correct offsets for your installation. We recommend a depth of 500mm+ of non-combustible surface in front of the full width of the fireplace structure.
- 8. Always burn 2-3 small slow burning fires to season the new concrete structure.** A large fire can cause excess moisture in the concrete to expand causing concrete cracking or swelling in plaster/paint finishes.
- 9. Stresses caused by the casting and curing process can often cause non-structural hairline cracks (up to 2mm wide) in precast concrete.** These cracks are often invisible until the heat of the fire causes the concrete to expand. We strongly recommend that the fire is clad with a modified plaster (e.g., Rockcote) or with stone/brick/schist or similar. This will hide any hairline cracks that may occur.
- 10. Steel fireboxes include several heavy components. Ensure you have 2 people available to lift these into position.**
- 11. The steel firebox can only be assembled inside the fireplace.**
- 12. The fireplace MUST be finished in either a modified plaster, stone or brick.**

Included in all standard fireplace kits:

- **Concrete fireplace structure**
- **Steel firebox**
 - A. Side plates (x2)
 - B. Back plate
 - C. Top baffle
 - D. Bottom plate
 - E. Surround
 - F. 12x M10x30mm bolts/washers, 4x sleeve anchor screws
- **Concrete cap** (Douglas only)
- **Steel flange/3x Sleeve Anchor Screws** (Burton/Mini Burton only)
- **Black stainless-steel flue** (Burton/Mini Burton)
(May be sent separately on courier)

Any optional accessories will be supplied with all bolts etc required for installation.

Installation of the fire

1. Prior to lifting the Trendz Outdoor Fire into position, ensure the concrete footing has cured and been constructed to the dimensions and strength rating recommended.
2. Use a HIAB or mobile crane to lift the Trendz Fireplace into position. Every fireplace has 2 x 1.3 ton swift lift tabs in the top for lifting. Most hiab trucks carry the swift lift clutches (except for the Hudson which has 2 x 2.5 ton swift lifts) to connect to the tabs.
3. Use crane/HIAB to lift any other heavy components into position, such as optional wood boxes, concrete chimney extension blocks.
4. Complete A) or B) as suits your installation method

A) Site assembly of fire box: Fill the inside of the pre-cast Trendz Fire with concrete up to the bottom level of the opening. Ensure the concrete is filled level and flat by measuring and marking correct height on back of fireplace prior to filling. Ensure hearth (optional) is installed prior to pouring infill. When the infill of concrete has cured (1-2 days), assemble the steel fire box inside the opening. This cannot be assembled then inserted (see page 3 for fire box assembly).

B) Pre-assembled fire box option: Remove the fire base plate (D) and drill and fix the pre-fitted L brackets to your foundations with the M10 x 60 concrete screws supplied.

5. Install concrete cap (Douglas) or steel flange (Burton/ Mini Burton). Do not install stainless steel flue until all cladding/ painting is complete and (optional) steel wood boxes are installed.
6. **Pre-plastered and painted Burton and Mini Burton:**

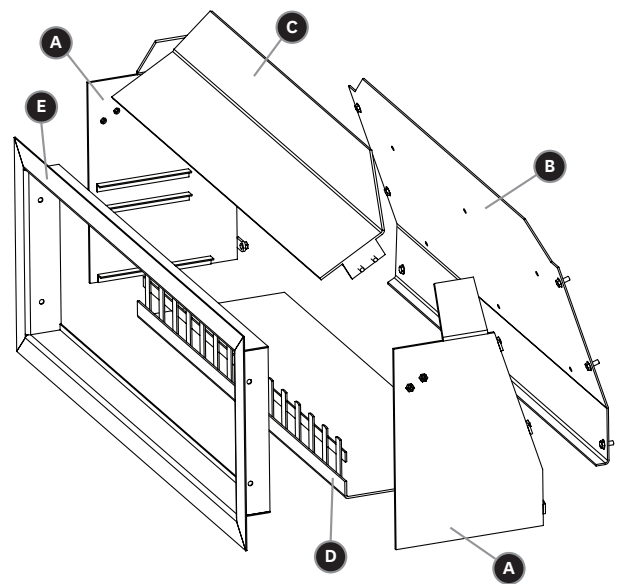
Place your fireplace on your prepared concrete pad. Remove the base fire plate (D) and drill and fix the fitted L brackets to the foundation with the M10 x 60 concrete screws. Once complete, reinstall fire plate. Fit concrete or steel wood boxes if ordered and then the flue which will be couriered to you.

Packers may be needed to get the fireplace to sit level.

5. Slide the bottom steel fire plate (D) in to sit on the lower side rails and bolt down. (Install optional hearth first).
6. Insert the frame surround (E) and fix to concrete with the dyna screws provided. 4 x 6.5mm holes will be pre-drilled in the side walls of the firebox cavity.

TIP: Fix this in place after plastering and painting has been finished. Use caution to ensure sharp corners of surround don't chip out plaster. Hand tighten dyna screws until sleeve isn't loose before inserting, this will prevent the screw spinning in the hole when you tighten them. Ensure surround is centralised in firebox opening and screws are inserted flush with surround before tightening. You may need to tap them in with a hammer. Pull the fire box forward so it meets the surround.

TIP: If the bottom plate or top baffle aren't parallel to the surround, remove bottom plate and place metal packers under front/back of firebox side plates to level up the firebox. All bolts must be hand tight only for this procedure.



Assembly of the firebox (Not needed if the fire box is pre-fitted)

The firebox must be assembled inside the cavity. Only finger tighten all bolts, until the firebox is fully assembled

1. Slide the back panel (B) into the fireplace cavity, lean against back wall of fireplace.
2. Slide the two sides (A) into the fireplace cavity ensuring the side rails are facing inwards and bolt lugs are at rear.
3. Bolt the back panel to the sides using the M10 bolts provided.
4. Bolt top baffle (C) to the top of the side panels. To make the install of this easier, insert a large Phillips head screwdriver through rear bolt hole on one side of baffle, feed tip of screwdriver into corresponding hole on side plate. Baffle can now hang on the screwdriver while the first two bolts are inserted on the opposite side. After the next two bolts are inserted tilt the front of the baffle down to make sure the throat opening is 100-110mm before tightening the bolts.

Care of your fireplace

1. **Light a small fire** - this should be for around 2-3 hours. This process will help your cladding settle and set. Whether it's plaster, paint, stone, or any other material, it's best to slowly introduce it to the heat of the fireplace. We suggest repeating this process 3 times.
2. **Small cracks are normal** - our fireplace shells are made from concrete, therefore hairline cracks can appear due to extreme temperature changes; these can be painted over without any concerns. Over the years, we have worked on perfecting our concrete mixture so you should not experience any structural cracking. If you are concerned about the size of the cracks in your fireplace, do not hesitate to contact us.
3. **Firebox maintenance** - to help make sure that your firebox lasts many long summers and colder winters, we recommend giving the firebox a paint with Stove Bright® High-Temperature aerosol paint in the colour satin black every 3-6 months. We also suggest that you empty fire ashes with an ashpan shovel every 5-10 fires.

4. **Corten steel wood box maintenance** - we suggest applying RIPO (Rust Inhibiting Penetrating Oil) once every 3-6 months to form a rust barrier. The RIPO product forms a water-resistant film and helps protect steel from condensation corrosion. This can be purchased directly from our sales team.
5. **2-year warranty** - this warranty covers structural cracking and failure of the steel firebox. This is just another way we guarantee that you're getting the best product and service. The warranty does NOT cover hairline cracks.

Upgrade Installs

Concrete Wood Box:

The wood boxes sit on each side of the fire. A packer may be required under the bottom edge, to help align with the fire. Two M10 concrete screws with a 50mm washer can be used inside the box at the top, to hold the wood boxes firm to the fireplace.

Steel Wood Box: (Burton and Mini Burton only)

Place the main top plate over the flue flange. Bolt the side plates to the top plate using the 4 x M8 counter sunk head bolts provided. Fix the bottom of the side plates to your concrete pad with the M10 dyna bolts provided. Make sure the sides are vertical before fixing the base. Keep the steel looking sharp by applying Trendz Ripo Oil every 3-6 months.

Hearth:

Insert the 12mm galvanised bolts through the pre-drilled holes in the precast concrete fireplace and through the holes on the hearth, with the nut on the hearth side. Place a 50mm washer behind the nut, and the head of the bolt. Do not over tighten, as this can cause the hearth to crack. With the polished hearth, the 2 x M12 bolts thread into 2 x thread inserts which are cast in the concrete - 80x6mm washers inside and 80x3mm washers outside*. If plastering on-site, bolt washers (80x3mm) in place first and plaster around them.

PLEASE NOTE: The hearth is NOT designed for adults to sit or stand on.

Chimney Extension Blocks (400mm):

Insert 4 x D12 reinforcing rods into the top of the chimney with the chemical anchor adhesive supplied. Add a bed of mortar between the chimney and the extension block. Thread the extensions blocks over the rods. For additional extension blocks, add a bed of mortar between each block. Make sure the bed of mortar goes fully around each 50mm hole. Fill the cavity around the rods with mortar. If the flue is going through the roof, it needs to be installed to the standard NZ2918.

Plinth:

Place the plinth on your concrete foundation. (See Trendz engineering drawings for foundation design). Plinth has 4 x 1.3T swift lifts on the top, so you will need 4 of the 1.3T swift lift clutches. Fix the plinth to the foundations with the 4 x L brackets and M10 x 60 concrete screws. Place your fireplace on to the plinth with the rear of the fireplace flush with the back of the plinth. Bolt the fireplace to the plinth with the 4 x L brackets and M10 x 60 concrete screw bolts.

Square Chimney: (Burton)

Place a generous bead of adhesive on top of the structure 50mm inside where the chimney is going to sit. Screw the two 12mm threaded rods into the inserts in the base of the concrete chimney. Place the chimney on the structure with the base of the chimney flush with the back of the structure. Fix the 50 x 50 washer and M12 nut on the end of the threaded rod.

S/S Square Cap:

(Douglas, Hudson, and Burton square chimney)

Fit the cap legs into the 75mm deep holes in the top of your concrete chimney. The legs can be glued in if desired but is not critical. The cap should be no closer than 75mm to the top of the chimney.

Anti-Down Draft (ADD) Cowl:

Fix the flashing plate to the top of the chimney with four small masonry screws and silicon. Rivet together the flue and ADD Cowl. (This is for the Douglas, Hudson, and Burton square chimney). The ADD cowl for the round flue on the Burton and Mini Burton just slides inside the flue and doesn't need to be riveted.

Flue: (Burton and Mini Burton only)

Bolt the stainless-steel flange to the top of the concrete structure with the 3 x M10 x 40 dyna bolts provided. If plastering the top of your fireplace, it is best to plaster over the base of the flange and the bolts. If your fireplace is pre-plastered, your flange will already be in place. Slide the black flue over the flange once plastering or stonework is complete.