

## Special Products

## FLEXIBLE ENGINEERING

# Flueformer™ and Voidformer™ pneumatic rubber formers

## A range of reusable formers for creating curved or straight voids

### Product description

#### At a glance

Inflation formers are reusable pneumatic rubber formers with a unique braided core. Once inflated, they are surrounded by concrete which when set allows the former to be deflated and removed; leaving a circular throughway. While the formers have high circumferential strength, they are equally flexible in length enabling curved or straight voids to be formed.

#### Applications

Chimney lining, shaft lining, steel sheathing support, air gap shutters, formwork expanders, porous drains, storm water culvert, slotted drains, air distribution ducts, hollow pile cores, pre-cast voids, cable ducts.

#### Types

Voidformer™ is a thick walled medium weight robust former to create curved or straight voids in concrete – generally used horizontally. Flueformer™, having a greater inflation range; is a lightweight former specifically for use with cast-in-situ chimney lining – used vertically.



Flueformer™ for a cast-in-situ chimney lining application

#### How it works

Voidformer™ and Flueformer™ are manufactured from specially developed natural rubber and reinforced with a high-strength tyre cord carcass. The combination of rubber and tyre cord enable the former to be consistently inflated; concentrically. During inflation the design allows a two-way movement by an increase in diameter and a reduction in length. The reverse situation occurs when deflating, ensuring an automatic detachment.

- Custom-built formers
- Specially braided core
- Reusable and reliable
- 60mm to 254mm inflated

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### Drainage construction with Voidformer™

One of the original uses of Voidformer™ was the construction of drains, sewers and culverts. This system is now used in many parts of the world in widely differing environments from heavily populated industrialised areas to remote regions where materials and skilled labour are scarce. The technical advantages of this method of drain construction are the elimination of frequent joints and the ability to curve the drain in both plains.

Voidformer™		Deflated diameter mm	Inflated diameter mm	Maximum length mts
Internal diameter Inch	mm			
1.1/2	38	52	60-76	12
2	51	65	76-90	12
2.1/2	65	76	90-100	12
3	76	90	100-125	12
4	102	115	150-175	12
5	127	140	175-200	12
6	152	165	200-230	12
Flueformer™		Deflated diameter mm	Inflated diameter mm	Maximum length mts
Internal diameter Inch	mm			
3	76	86	100-150	12
4	102	112	150-204	12
5	127	137	175-254	12

**Note:** The deflated diameter is the nominal outside diameter of the relaxed former. The inflated diameter is the nominal outside diameter range to which the former can safely be inflated and used. Physical data is nominal and is provided to serve as a guide. Since Voidformer™ and Flueformer™ are hand-built, natural variations can occur. Full inflation is generally achieved with approximately 20 psi. Inflated od former tolerance is +/- 6mm.

### Fittings

A specially machined steel fitting with a Schrader™ valve is inserted at one end with a blank plug at the other end. Fittings are safely secured with steel straps. Each fitting also incorporates a lifting lug.

### Testing and certification

Each former is pneumatically tested five times. During inflation, the dimensions are recorded at five equi-spaced points along the former at both the minimum and maximum inflated diameter range. Voidformer™ and Flueformer™ are tested and branded with a unique serial number and date of manufacture.

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