

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. Inflation formers are available in 12 metre lengths.

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™ is a thin walled 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 305mm inflated

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Special Products

Physical data

FLEXIBLE ENGINEERING

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™

Internal diameter Inch	mm	Deflated diameter mm	Inflated diameter mm
1.1/2	38	52	60-76
2	51	65	76-90
2.1/2	65	76	90-100
3	76	90	100-125
4	102	115	150-175
5	127	140	175-200
6	152	165	200-230

Flueformer™

Internal diameter Inch	mm	Deflated diameter mm	Inflated diameter mm
3	76	86	100-150
4	102	112	150-204
5	127	137	175-254
6	152	162	200-305

Note: Deflated diameter is the nominal outside diameter of the relaxed former. 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™ or BSP valve is inserted at one end with a blank plug at the other end. Fittings are safely secured with steel straps. The valved fitting also incorporates a welded lifting lug.

Testing and certification

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

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