

ENCASED FLAT GRATES FORGEBAR DESIGN

Revision Date: 1 November 2023



Product Description & Applications:

Flat stormwater grates are used in drainage applications requiring grated pits, where stormwater enters the drainage system through the top of the pit.

Flat grates are made from premium quality galvanised steel and supplied within a matching steel frame. Certain standard sizes of SVC stormwater grates are available pre-encased in concrete, providing significant time savings during the installation process.

Produced in a controlled factory environment, the concrete encasements are made from a 32MPa concrete mix and offer greater consistency in appearance and performance in comparison with concrete surrounds that are poured on-site.

Compliance:

All SVC grates are compliant with the load classifications and design requirements as specified in Australian Standard *AS 3996:2019 – Access covers and grates*.

Item Availability:

Stocked product – readily available

Product Specifications

- Material composition:
Galvanised Steel (grate & frame)
Precast concrete (encasement) – compressive strength 32MPa
- Available Load Classes:
B, D
- Design life: 50 years

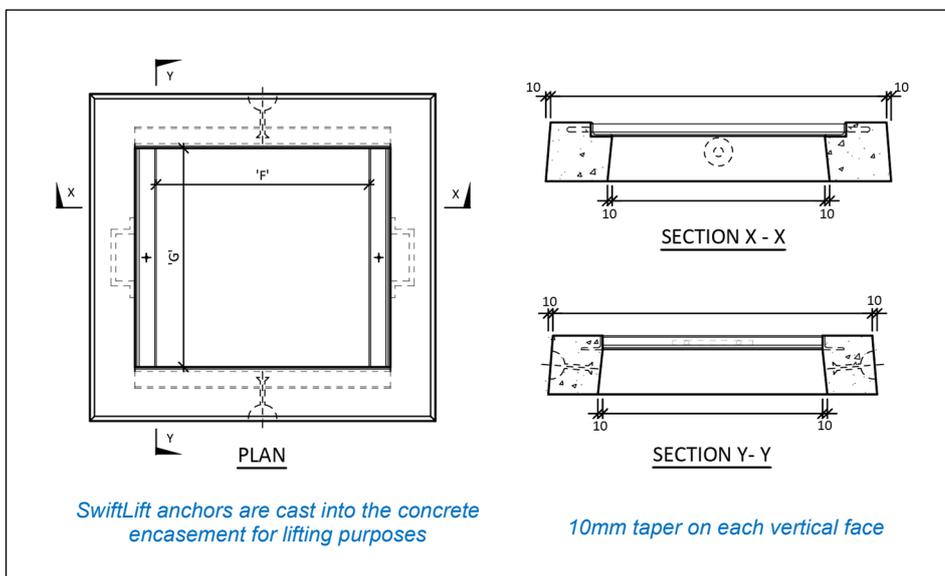
Applicable Standards

- AS 3996:2019 – Access covers and grates
- AS 4680:2006 – Hot-dip galvanised (zinc) coatings on fabricated ferrous articles

Recycled/Waste Content

(applicable to concrete encasements only)

- 10-35% supplementary cementitious material (fly ash & slag)
- Lightweight plastic aggregate (made from processed soft plastic waste) substituting a portion of stone aggregates
- Reclaimed rainwater harvested on-premises





Civil & Infrastructure > Grates > Flat Grates Encased – Forgebar Pattern

Code	Style	Minimum Clear Opening L x W (mm)	Overall Dimensions L x W (mm)	Thickness (mm)	Lifting Points	Load Class	Total Weight
21.EFGF44B	Lift-out	450 x 450	755 x 690	125	2 x 1.3T SwiftLift	B	110 kg
21.EFGF44D	Lift-out	450 x 450	765 x 695	150	2 x 1.3T SwiftLift	D	130 kg
21.EFGF66B	Lift-out	600 x 600	925 x 845	125	2 x 1.3T SwiftLift	B	150 kg
21.EFGF66D	Lift-out	600 x 600	915 x 845	150	2 x 1.3T SwiftLift	D	201 kg
21.EFGF69B	Lift-out	900 x 600	1145 x 935	125	2 x 1.3T SwiftLift	B	210 kg
21.EFGF69D	Lift-out	900 x 600	1140 x 915	150	2 x 1.3T SwiftLift	D	230 kg
21.EFGF99B	Lift-out	900 x 900	1220 x 1165	125	2 x 1.3T SwiftLift	B	250 kg
21.EFGF99D	Lift-out	900 x 900	1215 x 1140	150	2 x 1.3T SwiftLift	D	302 kg

Related Products:

Product Group
Flat Stormwater Grates
Concrete Pits & Risers (Stock)
Kerb Lintels