

PRODUCT FAMILY DATASHEET

Concrete Cover Grating

Hook-type steel covers that sit in a concrete kerb or pit and lift out for cleaning.



What This Family Is For

A concrete cover panel is a grating panel built as a lid: it has to carry the traffic that crosses it, drop cleanly into a cast frame or kerb, stay put under load and still lift out when the chamber underneath needs clearing. The hook, the frame and the edge detail are as much of the product as the mesh. ShengJingYe builds these from 30x2.5 bearing bar for light pedestrian covers up to 100x5 for panels that take vehicles.

Products In This Family

Product	Group	Summary
Concrete Cover Grating 30x2.5 Hook Type	Concrete Cover Grating	Light-duty hook cover panel on 30x2.5 bearing bar with 8x2 cross bar, hot-dip galvanized, for chambers crossed by pedestrians and hand trolleys.
Concrete Cover Grating 65x5 Heavy Duty	Concrete Cover Grating	Heavy cover panel on 65x5 bearing bar with a 6 mm round cross bar, hot-dip galvanized, for chambers crossed by forklifts and light vehicles.
Concrete Cover Grating 100x5 With Flat Cross Bar	Concrete Cover Grating	The heaviest published cover section: 100x5 bearing bar with a 30x5 flat cross bar, hot-dip galvanized, for wide openings and vehicle loads.
Concrete Cover Grating 100x5 Vehicle Duty Panel	Concrete Cover Grating	100x5 bearing bar with 30x5 flat cross bar, built and banded as a stacked panel set for repeated openings along one trench run.

Published Specification

Property	Value
Material	Carbon Steel
Bearing bar	30 x 2.5 mm
Cross bar	8 x 2 mm
Surface treatment	Hot-dip Galvanizing
Structure	Concrete Cover Grating
Panel size	Made to your drawing
Place of production	Yantai, Shandong Province, China
Brand	ShengJingYe
Minimum order quantity	Small batch accepted
Load class	TBC, confirmed in writing against your loading
Lead time	Confirmed in writing per order, not published

Figures are reproduced from the manufacturer's published specification and may be revised. Rows reading 'not published' are figures the source specification does not publish; they are confirmed in writing rather than estimated. Confirm the current revision with your quotation.

Why Buyers Choose This Range

- Bearing bar from 30x2.5 to 100x5 so the panel is specified to the wheel load, not to a default
- Hooks, lifting points and banding fabricated with the panel
- Hot-dip galvanized after fabrication, so the cut ends and welds are coated too
- Built to the opening as it exists on site rather than to the nominal dimension
- Heavy sections available in the same run as the light ones

Problems It Solves

- Covers that rock in the frame and bang every time a wheel crosses them
- Panels that cannot be lifted by one person when the chamber needs clearing
- Hooks and edge bars that rust out years before the mesh does
- Covers ordered to a nominal opening that do not fit the opening as actually cast
- Panels that deflect visibly under a wheel load because the bearing bar was specified by price

Who It Is For

- Civil contractors covering drainage chambers, sumps and cable pits
- Municipal and highway maintenance departments replacing broken covers
- Industrial plants with trenches crossing vehicle routes
- Precast and civil product manufacturers who need the steel top for their chamber

Application Scenarios

- Drainage and inspection chambers in yards and access roads
- Cable and service pits inside plants and substations
- Trench covers crossing forklift and truck routes
- Kerbside gully and sump covers in municipal works

Materials

- Carbon steel bearing bar and cross bar
- Zinc coating applied by hot-dip galvanizing

Manufacturing Process

1. Drawing and 3D model
2. Cutting and stamping
3. Pressure welding or press locking
4. Framing and fabrication
5. Surface treatment
6. Inspection and packing

Customisation Options

- Hook length and position to your kerb detail

- Lifting handles and recessed lifting eyes
- Hinged or bolt-down arrangements
- Cut-outs for pipe and cable entries

Certification Standards

Production follows TBC, the source specification publishes no certification marks. Certificates are sent per product on request.

Questions Buyers Ask

How do I specify the load?

Tell us what crosses it: pedestrians, a pallet truck, a forklift with its axle load, or road vehicles. The bearing bar depth and pitch follow from that. The source specification does not publish load class tables, so the class is confirmed in writing for your drawing rather than quoted from a catalogue.

Can the covers be hinged or locked down?

Hinges, hold-down bolts and lifting handles are fabricated to the drawing when the chamber needs them.

What size panels can be lifted by hand?

That is decided by panel size and bar section together, so heavy covers are usually split into panels sized for two-person lifting or fitted with lifting points.

Do you galvanize before or after fabrication?

After. Hooks, frames and cut edges are all coated, which is where untreated covers normally start to fail.

Can you match an existing cover?

Yes. Send photographs with a tape in shot, or the old panel dimensions, and a replacement is drawn from that.

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