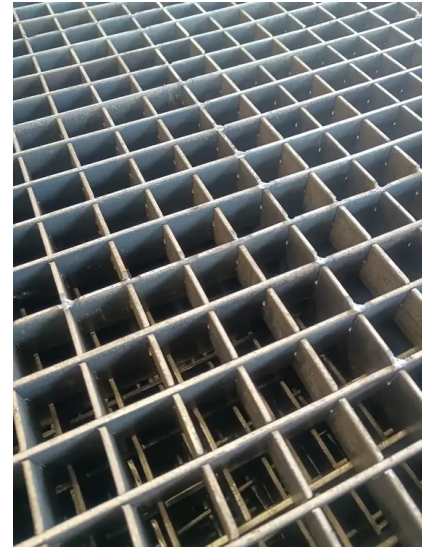


PRODUCT FAMILY DATASHEET

Press Locked Grating

Grating assembled under pressure instead of welded, for a flush surface and a sharp square mesh.



What This Family Is For

In a press locked panel the cross bar is forced into a notch in the bearing bar under pressure rather than welded to it. The joint is mechanical, the top surface stays flush, and the mesh keeps a clean square line that welded panels do not hold as precisely. It is the structure to specify where the grating is visible, where the top has to be smooth, or where a weld bead would interfere with what sits on it. ShengJingYe produces press locked panels in stainless steel with acid passivation and in hot-dip galvanized carbon steel.

Products In This Family

Product	Group	Summary
Press Locked Grating 40x3 Stainless Steel	Press Locked Grating	Stainless steel press locked panel on 40x3 bearing bar with a 10x2 cross bar, acid passivated, for platforms and visible runs with a flush top surface.
Press Locked Grating 32x3 Carbon Steel	Press Locked Grating	Hot-dip galvanized carbon steel press locked panel with 32x3 bearing bar and a matching 32x3 cross bar, giving a deep square mesh.
Press Locked Grating 30x2 Stainless Steel	Press Locked Grating	Light stainless press locked panel with matched 30x2 bearing and cross bars, acid passivated, for hygienic floors and light-duty visible decks.

Published Specification

Property	Value
Material	Stainless Steel
Bearing bar	40 x 3 mm
Cross bar	10 x 2 mm
Surface treatment	acid passivation
Structure	Press Locked 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

- Mechanically locked joint, no weld bead and no weld heat on the bar
- Flush top surface across the whole panel
- Stainless steel 40x3 and 30x2 sections, acid passivated, and carbon steel 32x3 hot-dip galvanized
- Square mesh geometry held across the panel, which is what makes a run of panels line up
- Same plant handles framing, cut-outs and edge detail

Problems It Solves

- Weld spatter and bead on a surface that has to look finished
- Welded joints as the first point of coating failure in a wet environment
- Mesh lines that wander across a large panel and show up against a straight edge
- Stainless panels bought welded, where the heat-affected zone is what corrodes first
- Architectural screens and facades where the grating is the visible material

Who It Is For

- Architects and facade contractors using grating as a visible element
- Food, beverage and chemical plants specifying stainless steel platforms
- Plant engineers replacing welded grating that failed at the joints
- Fabricators who need a flush top for equipment to sit on

Application Scenarios

- Walkways and platforms inside processing plants
- Architectural screens, balustrade infill and sun shading
- Wet areas where stainless steel is specified for cleaning rather than for strength
- Equipment decks where a flush surface is needed

Materials

- Stainless steel bearing bar and cross bar, grade TBC
- Passive layer restored by acid passivation after fabrication

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

- Mesh pitch to the load and the appearance required

- Framed panels, stair treads and nosings in the same structure
- Cut-outs for pipework, columns and handrail posts
- Fixings and clips in matching stainless

Certification Standards

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

Questions Buyers Ask

Is press locked stronger than welded?

Not automatically. It is a different joint, chosen for a flush surface, appearance and corrosion behaviour. Load capacity comes from bearing bar depth, thickness and pitch in either structure.

Why stainless steel press locked rather than welded?

Welding stainless leaves a heat-affected zone that is the first thing to corrode. A pressed joint avoids that, and acid passivation then restores the passive layer across the whole panel.

Can press locked panels be cut on site?

They can, but cut ends lose the locking at the edge and lose their coating, so panels are better cut and banded here before galvanizing or passivation.

What mesh sizes are available?

The published sections are 40x3 and 30x2 stainless and 32x3 carbon steel. Pitch is set against your drawing, so send the opening and the load rather than choosing from a list.

Do you supply matching stair treads?

Treads, nosings and framed panels are fabricated in the same structure so a stair and its landing match.

YanTai ShengJingYe Metal Manufacturing Co., Ltd | Hengyang Road, Yantai Economic and Technological Development Zone, Shandong Province, China | admin@shengjingye.com | www.shengjingye.com