

INDUSTRIAL PLATFORM SYSTEMS

Common metric specifications / Southeast Asia & Middle East / RFQ-ready

Typical standard configuration

SYSTEM BASELINE

SYSTEM BASELINE - CATALOG START

- Floor: WBG-CS-305-30/100-S-HDG
- Bearing bars run across the supporting steel
- Guardrail height: 1100 mm common baseline
- Toe plate: 100 x 5 mm common baseline
- Rail tube: 42.4 / 48.3 mm OD common
- Post centers: <=1500 mm typical; verify design
- Wiberg makes grating; rails/supports/anchors sourced

30 x 5 / 40 x 5 mm

Bearing-bar options

30 / 100 mm

Bearing / cross-bar pitch

1100 mm / 100 x 5

Guardrail / toe plate

Drawing-based

Supports, cut-outs, panel marks

Wiberg manufactures grating panels and integrates sourced rails, supports, anchors and fixings to the approved platform drawing.

Select the platform system

Confirm loads and support geometry before locking the grating, edge protection, frames and connections.

0
1**Environment**0
2**Traffic / load**0
3**Clear span**0
4**Opening / mesh**0
5**Surface**0
6**Material / finish**

Application	Starting product	Key confirmation
Support layout	Angles / channels / beams	Clear span + interface
Pedestrian duty	WBG 305-30/100	Uniform load + deflection
Maintenance duty	WBG 405-30/100	Point / equipment load
Wet / outdoor	Serrated + HDG	Slip + corrosion basis
Open edges	Guardrail + toe plate	Height + design load
Removable zones	Banded panels + clips	Panel marks + fixing

Floor Grating - Standard Baseline

PRODUCT



Forge-welded carbon-steel open-mesh panels. Bearing bars must span between supports; cross bars do not carry the main span.

STANDARD MANUFACTURING RANGE

Parameter	Typical range
Bearing bars	25 x 3 to 50 x 5 mm common; heavier by design
Typical sections	25 x 3 / 30 x 3 / 30 x 5 / 40 x 5 / 50 x 5 mm
Pitch	30 or 40 mm bearing pitch; 100 mm cross-bar pitch
Panels	1000 mm wide; length to 6000 mm
Material / finish	Q235B / S275JR / ASTM A36; HDG after fabrication

COMMON

PLATFORM LOAD INPUTS

- Uniform live load, kN/m²
- Concentrated load and contact area
- Clear span and bearing-bar direction
- Deflection limit and vibration expectation
- Equipment plinths, cut-outs and removable zones

SYSTEM FLOOR DEFAULT

WBG-CS-305-30/100-S-HDG

30 x 5 bearing bars at 30 mm centers, 6 x 6 twisted cross bars at 100 mm centers, serrated and galvanized after fabrication. This matches a common public ADNOC geometry; the project specification remains controlling.

ORDERING INPUT

model code / clear span / loads / panel size / cut-outs / finish / quantity

Standard ranges shown for catalog selection. Final section, span, load, finish and compliance basis must be confirmed against project drawings.

Handrails, Guardrails & Toe Plates

PRODUCT

EDGE-PROTECTION BASELINE

- 1100 mm top rail is a common industrial start
- Mid-rail and 100 x 5 mm toe plate common
- 42.4 / 48.3 mm OD rail tube commonly sourced
- <=1500 mm post centers typical; verify loads
- Governing access code controls final geometry

Project-sourced tubular edge protection integrated to the approved platform, walkway or stair drawing.

STANDARD MANUFACTURING RANGE

Parameter	Typical range
Tube OD	42.4 / 48.3 mm common
Wall	2.6 / 3.2 / 4.0 mm typical; verify load
Base plate	150 x 150 x 10 mm typical; design controls
Top rail	1100 mm common; OSHA 42 in if specified
Post spacing	<=1500 mm typical; verify design load

PROJECT SOURCED

PURCHASE DATA FOR SOURCED RAILS

- Tube grade and wall thickness
- Base-plate size and hole pattern
- Bolt grade, coating and edge distances
- Weld category and surface-finish scope
- Supplier certificate and design-load basis

INTEGRATED AND SUPPLIED BY WIBERG

Rail posts / top rail / midrail / toe plate / bases / fasteners

The nominated component supplier's certified data controls tube grade and capacity. Wiberg coordinates dimensions, interfaces, finish, panel marks and submittal documents.

ORDERING INPUT

rail height / post spacing / tube OD / base detail / toe plate / finish

Standard ranges shown for catalog selection. Final section, span, load, finish and compliance basis must be confirmed against project drawings.

Support Frames, Edge Bands & Toe Plates

APPLICATION ILLUSTRATION



Support steel transfers load to the structure; banding closes panel edges; toe plates protect exposed platform and walkway edges.

STANDARD MANUFACTURING RANGE

Parameter	Typical range
Frames	Angles / channels / hollow sections by design
Edge bands	Match panel depth; 3-10 mm thick
Toe plate	100 x 5 mm common; 150 x 5 heavy option
Connections	Splice plates / gussets / prepared holes
Finish	HDG / painted / stainless by environment

SUPPORT

SUPPORT INTERFACE

- Seat width and support flange confirmed on drawing
- Grating landing: bar depth, 30 mm minimum start
- Edge bands close open panel ends
- Toe plates protect exposed platform edges
- Allow erection clearance and galvanizing drainage

INTEGRATED AND SUPPLIED BY WIBERG

Grating panels: manufactured by Wiberg. Support steel: project-sourced unless expressly included.

Support member sizes, connection forces and anchor loads require structural design. The catalog dimensions are configuration defaults, not a stamped platform design.

ORDERING INPUT

support layout / loads / sections / holes / toe plate / finish

Standard ranges shown for catalog selection. Final section, span, load, finish and compliance basis must be confirmed against project drawings.

Panel Fixings, Banding & Toe Plates

Match the fixing to the grating geometry, support flange and removal requirement.

FIXING STARTING POINT

- Saddle / hold-down / joining clips
- M8 or M10 hardware commonly sourced
- Minimum 4 clips per panel is a catalog start
- Increase near cut-outs, joints and uplift zones
- Final type must match mesh and support flange

BANDING AND TOE PLATE

- Banding depth normally matches bearing-bar depth
- 100 x 5 mm toe plate is a common project baseline
- Confirm edge gaps, openings and removable sides
- Welded or bolted detail must be stated
- Match finish to the fabricated panel

Panel Fixings

Hold-down, saddle and joining clips secure panels without site welding.

Banding & Toe Plates

Edge bars reinforce panels, close perimeter openings and provide fixing interfaces.

Parameter	Typical range
Types	Hold-down / saddle / joining
Materials	Carbon steel / SS 304 / 316
Finish	HDG / painted / stainless
Spacing	4 per panel typical; increase by design

Parameter	Typical range
Banding	Flat bar to panel depth
Toe plate	Project dimension; 100 x 5 common
Install	Welded / bolted
Finish	Match assembly

RELEASE BEFORE FABRICATION

- Bearing-bar span direction
- Support flange width and panel seat
- Cut-outs, removable panels and lifting access
- Clip material, finish and installation method
- Panel marks and packing sequence

MANUFACTURED + SOURCED PACKAGE

Banding / toe plates: manufactured with panels. Clips / bolts: selected and supplied to project requirements.

Fixing type must match the support flange, grating pitch, removability and finish. Final quantity and spacing follow the approved installation drawing.

Anchors & Structural Connections

Bolt grade, hole pattern and base material must be coordinated before fabrication.

ANCHOR INPUTS

- Mechanical, chemical or cast-in system
- M10-M24 is a common sourced range
- Concrete strength, embedment and edge distance
- Tension, shear, corrosion and fire requirements
- Engineer approval before procurement

STRUCTURAL CONNECTIONS

- 50 x 50 x 6 mm angle is a common starting cleat
- 10-16 mm connection plates commonly sourced
- M12-M20 bolts, grade 8.8 / 10.9 by design
- Confirm tool access and erection sequence
- Do not drill released steel without approval

Anchors

Cast-in, wedge, chemical and plate-welded anchors for frames and rail bases.

Parameter	Typical range
Typical sizes	M10-M24 common
Anchor type	Mechanical / chemical / cast-in
Bolt grades	8.8 / 10.9
Materials	HDG / SS 304 / 316L

Structural Connections

Cleats, base plates and gussets are coordinated to the approved structural drawing.

Parameter	Typical range
Cleats	50 x 50 x 6 angle typical
Plates	10-16 mm
Bolts	M12-M20
Finish	HDG / SS 316L

RESPONSIBILITY BOUNDARY

- Wiberg: grating panels and integrated package drawing
- Supplier: certified component data
- Engineer: support reactions and anchor acceptance
- Site: concrete condition and installation control

INTEGRATED AND SUPPLIED BY WIBERG

Anchor manufacturer data, base material and design load control selection.

Wiberg coordinates bolt size, hole pattern, edge distance, coating and connection marks to the approved structural drawing.

Select material and finish from the operating environment

Carbon steel

Q235B / S275JR / ASTM A36

HDG / painted / untreated

Stainless steel

304 / 316; supplier certificate

As-fabricated / passivated scope

Aluminum - sourced

6063-T6 / 6061-T6

Mill / anodized

FRP - sourced

Isophthalic / vinyl ester

Concave / grit top

Environment	Starting point	Confirm
Dry indoor	Carbon steel / paint system	Maintenance coating
Outdoor	HDG after fabrication	Coating standard
Coastal / hygienic	304 / 316 by exposure	Grade + cleaning
Chemical / wet	FRP or stainless by compatibility	Compatibility + fire
Low mass rooftop	Aluminum / FRP sourced option	Wind + roof reaction

Inspection and turnover records follow the purchase specification

PRODUCT INSPECTION

- Material certificate / heat traceability
- Bearing-bar size, pitch and span direction
- Length, width, diagonals and flatness
- Cut-outs, banding, toe plates and weld details
- Surface finish and coating certificate

TURNOVER PACKAGE

- Approved drawing and panel mark schedule
- Material and coating records
- Inspection report and deviation closure
- Packing list linked to panel marks
- Supplier documents for sourced components

Inspection point	Typical evidence
Base material	Material certificate / traceability
Panel geometry	Length, width, diagonals, flatness
Bar pattern	Bar section, pitch, direction, alignment
Fabrication	Banding, cut-outs, tread details
Finish	Galvanizing or coating certificate
Release	Panel mark schedule + packing list

Common references: ISO 14122-2/-3 / ANSI-NAAMM MBG 531-24 / YB/T 4001.1 / ISO 1461:2022 / ASTM A123/A123M / project specification. Legacy EPC specifications may cite BS 4592-1.

Inputs for a comparable quotation

Send drawings when available. If they are not available, the following ten inputs are enough to start a controlled selection.

- | | | | |
|----|--|----|---|
| 01 | Operating environment and site location | 02 | Platform plan, elevations and clear spans |
| 03 | People, equipment and maintenance loads | 04 | Floor grating model and panel direction |
| 05 | Guardrail height, toe plate and openings | 06 | Support steel and connection interface |
| 07 | Cut-outs, removable panels and marking | 08 | Required standard and document package |
| 09 | Quantity, destination and Incoterms | 10 | Required delivery sequence |

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COMMON SPECIFICATIONS. PROJECT-SPECIFIC ENGINEERING.

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