

INDUSTRIAL WALKWAY SYSTEMS

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

Typical standard configuration

SYSTEM BASELINE

ROUTE BASELINE - CATALOG START

- Clear width: 900 / 1000 mm common
- Floor: 30 x 5 mm at 30 / 100 mm common
- Serrated surface for wet/oily exposure
- One-side or two-side edge protection by route
- Toe plate: 100 x 5 mm common baseline
- Supports, gates and rooftop pads are sourced
- Confirm route loads, support spacing and wind reaction

900 / 1000 mm

Common clear walkway width

30 x 5 mm

Common serrated bearing bar

30 / 100 mm

Bearing / cross-bar pitch

Route-based

Supports, rails, gates, marks

Wiberg manufactures the grating panels and integrates project-sourced edge protection, brackets, rooftop pads, gates and fixings into a route-based walkway package.

Select the walkway route

Clear width, support spacing, slip risk and edge exposure determine the floor and protection package.

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
Route width	900 / 1000 mm	Clear width + obstructions
Pedestrian duty	WWK-900-305-HDG	Span + service load
Wet / oily	WWK-900-305S-HDG	Slip-test basis
Elevated route	Guardrail + toe plate	One / two-side protection
Rooftop route	Sourced support pads	Membrane + wind reaction
Access opening	Self-closing gate	Clear opening + swing

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

WALKWAY LOAD INPUTS

- Clear width and unobstructed route width
- Uniform pedestrian/maintenance load
- Tool or point load and contact area
- Support spacing and bearing-bar direction
- Deflection limit and removable panel 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.

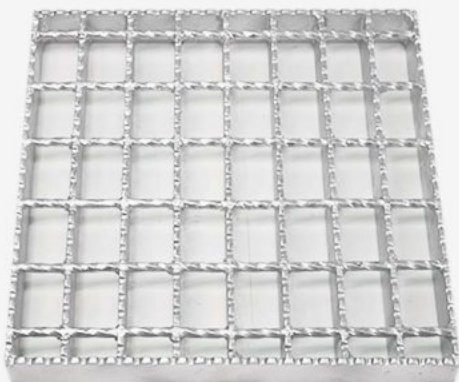
ORDERING INPUT

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.

Serrated Walkway Floor

PRODUCT



Serrated bearing-bar tops are the default for wet, oily, coastal and outdoor access routes; the required slip-test basis must be stated by the project.

STANDARD MANUFACTURING RANGE

Parameter	Typical range
Bearing bars	30 x 5 / 40 x 5 / 50 x 5 mm
Pitch	30 mm standard; 40 mm optional where allowed
Construction	Welded carbon steel
Material	Q235B / S275JR / ASTM A36
Reference	Project slip-test requirement; no generic R-rating claim

COMMON MODEL

WET / OILY ROUTE SELECTION

- 30 x 5 mm serrated bearing bar is a common start
- State pitch, serration and finish in the model code
- Confirm drainage, cleaning and footwear condition
- Specify slip-test method where a class is required
- Supplier certificate governs the declared class

WWK-900-305S-HDG

30 x 5 bearing bars / 30-100 pitch / serrated / HDG

Use plain grating for dry controlled areas and serrated grating where water, oil, sand or process residue may be present. Final selection follows the project's slip-risk assessment.

ORDERING INPUT

bar section / pitch / serration / span / 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 DATA

- Top rail: 1100 mm common baseline
- Mid-rail and 100 x 5 mm toe plate common
- Tube OD: 42.4 / 48.3 mm commonly sourced
- Post spacing: <=1500 mm typical; verify design
- Add gate data at access openings

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

ROUTE CONFIRMATION

- One-side or two-side protection
- Rail returns, gates and ladder interfaces
- Horizontal/vertical design-load basis
- Base plates, bolts and corrosion system
- Supplier certificate for sourced assemblies

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

SUPPLY

SUPPORT STEEL INPUTS

- Bracket or beam section and spacing
- Grating seat: bar depth, 30 mm minimum start
- Reactions transferred to primary structure
- Cut-outs and penetrations shown on route drawing
- HDG repair after approved field work

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 walkway 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.

Non-Penetrating Rooftop Supports

PRODUCT

NON-PENETRATING SUPPORT RANGE

- Pad size: 300 / 400 / 500 mm square common
- Pad thickness: 15-30 mm common sourced range
- Galvanized top seating tray optional
- Supplier hardness and compression data required
- Final spacing follows reactions, not a fixed catalog rule

Project-sourced support pads spread walkway reactions without penetrating the roof membrane where the roof and wind design permit.

STANDARD MANUFACTURING RANGE

Parameter	Typical range
Sizes	300 / 400 / 500 mm square
Thickness	15-30 mm
Hardness	Supplier certified range
Load	By roof membrane, wind and reaction design
Option	Galvanized top seating tray

PROJECT SOURCED

ROOF INTERFACE GATE

- Membrane compatibility and allowable pressure
- Wind uplift, overturning and sliding reactions
- Drainage route and roof falls
- Maintenance access and tray restraint
- Roof designer acceptance required

INTEGRATED AND SUPPLIED BY WIBERG

Support supplier data controls pad capacity, hardness and membrane compatibility.

Confirm membrane type, allowable local reaction, wind uplift, support spacing and drainage before selecting a non-penetrating rooftop walkway system.

ORDERING INPUT

roof membrane / allowable reaction / pad spacing / walkway width / wind / tray

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.

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 Route, environment and installation height

02 Clear width, run length and support spacing

03 Pedestrian, tool and maintenance loads

04 Floor model, serration and span direction

05 One-side or two-side edge protection

06 Support brackets or rooftop support basis

07 Access openings, gates and panel 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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