

# Stair Geometry & Comfort Worksheet

A four-page mark-up set for inclined access quotation and engineering review.

Four-page worksheet

Large line diagram

Clear review flow

Units (check one; use one unit set throughout):  mm  m  in  ft

Scope: inclined ladders | ship ladders / ship stairs | service steps | fixed access routes

**Page 1 - Diagram Mark-Up** Use this page for the main side-view sketch and handwritten A-F mark-up.

## Project / Contact

Company / Site \_\_\_\_\_ Project / Ref \_\_\_\_\_

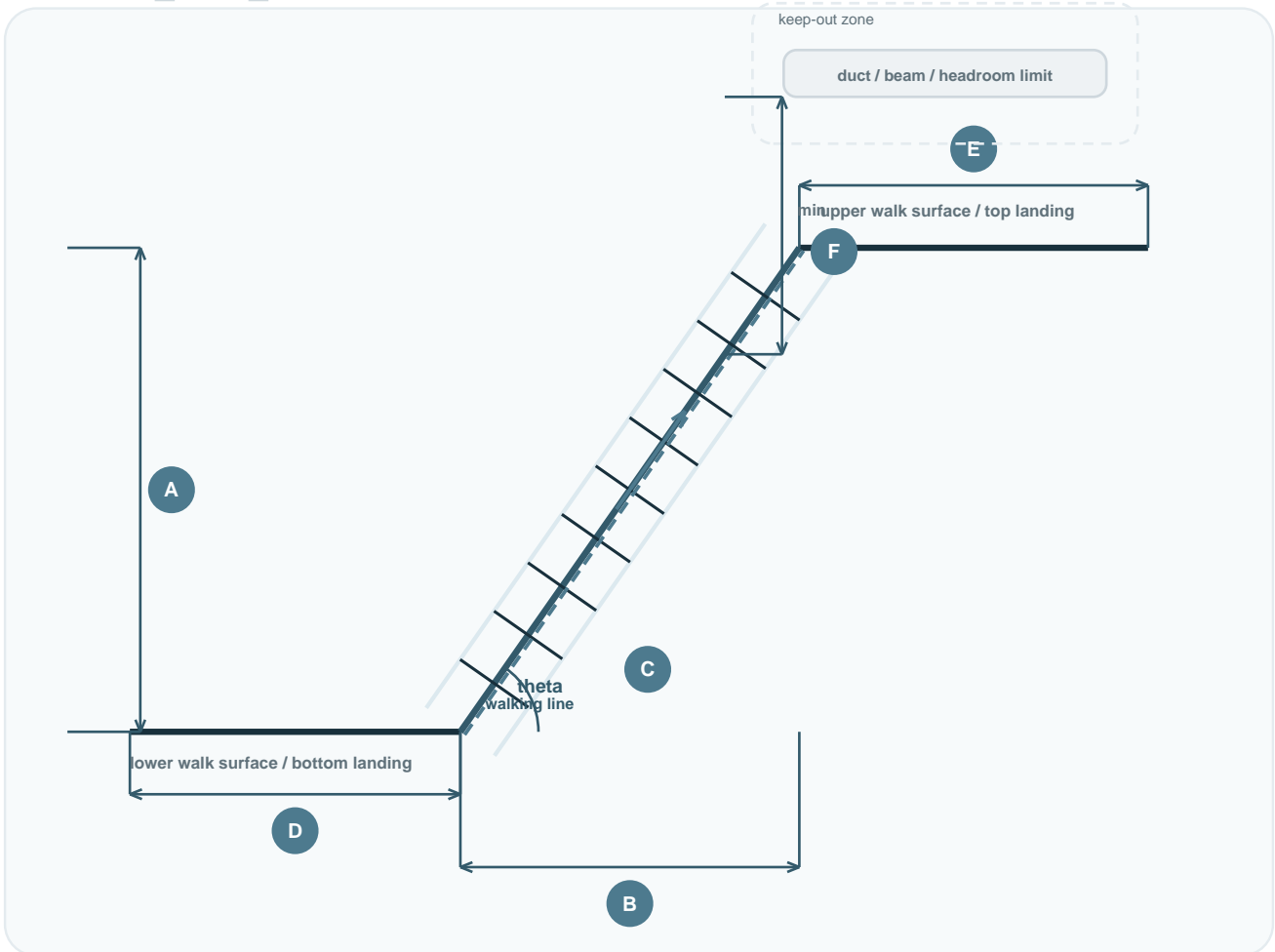
Contact name \_\_\_\_\_ Date \_\_\_\_\_

Email \_\_\_\_\_ Phone \_\_\_\_\_

Install location (area / level) \_\_\_\_\_

## DIAGRAM - SIDE VIEW (NOT TO SCALE) | MARK A-F HERE

Direction of travel:  Up  Down Use handwritten notes directly on this page if the route is irregular or turns.



### A-F callout legend

- A** Vertical rise
- B** Horizontal run
- C** Target angle
- D** Bottom landing
- E** Top landing
- F** Minimum headroom

### Obstructions / keep-out / alternate turn notes

Obstructions / keep-out zones (pipes, ducts, wall returns, equipment):

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Extra sketch / alternate turn / keep-out note

# Stair Geometry & Comfort Worksheet\*

## Page 2 - Geometry Inputs

Use this page for A-H dimensions, clearances, and measurement notes.

Carry project reference here

Company / Site \_\_\_\_\_

Project / Ref \_\_\_\_\_

Date / Contact name \_\_\_\_\_

### FIELD PANEL - GEOMETRY (A-F)

#### A-C

A. Vertical rise (floor / walk surface to floor / walk surface) \_\_\_\_\_

B. Horizontal run available (footprint in direction of travel) \_\_\_\_\_

C. Target angle (from horizontal): \_\_\_\_\_ deg

Unknown - please calculate from A & B

#### D-F

D. Bottom landing clear length L1 (in direction of travel) \_\_\_\_\_

E. Top landing clear length L2 (in direction of travel) \_\_\_\_\_

F. Minimum headroom / head clearance Hmin above walking line \_\_\_\_\_

Location of minimum clearance:

Bottom  Middle  Top  Throughout  Unknown

### Landings & clearances (G-H)

G. Clear walking width desired (between rails / handholds if known) \_\_\_\_\_

H. Side clearance constraints: Left \_\_\_\_\_ Right \_\_\_\_\_

No known side-clearance constraint

#### Site constraint notes

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### Measurement guidance

- If angle is unknown, enter A and B clearly and let engineering calculate theta.
- Measure landing length in the direction of travel, not diagonally.
- If headroom changes along the route, mark where the tightest point occurs.
- If photos are available, pair this page with a side-view shot or a marked sketch.

#### Field cross-check

- A marked on diagram  B marked on diagram
- F location marked

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# Stair Geometry & Comfort Worksheet\*

## Page 3 - Use Conditions

Use this page for I-K, carrying load, comfort preference, and route style request.

### Carry project reference here

Company / Site \_\_\_\_\_

Project / Ref \_\_\_\_\_

Date / Contact name \_\_\_\_\_

### I. Use frequency (select one)

- Low-frequency use - Occasional access for service / maintenance (not repeated daily).
- Repeated daily use - Used every day or every shift by operators / technicians.
- Carrying tools or loads - Users typically carry tools, parts, or materials while climbing.
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### J. Operator carrying load (check one)

- Empty hands
- Tools
- Parts / loads (approx.): \_\_\_\_\_ lb / \_\_\_\_\_ kg
- Typical carried item / operation note:

\_\_\_\_\_

\_\_\_\_\_

### K. Comfort priority and route style request

#### Comfort priority

- Shortest footprint is priority (steeper route acceptable)
- More comfortable climb is priority (more run acceptable)
- Balance footprint + comfort (recommend best fit within space)
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#### Selection notes

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#### Route style request

- Keep inclined-ladder geometry (ladder-like climb)
- Move toward service-step geometry (more stair-like comfort)
- Not sure - recommend the safest / most workable option within constraints
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