

Fixed Ladder / Caged Ladder / Roof Access Measuring Pack

Expanded first-round site markup + dimension submission worksheet

PAGE 1

A4 worksheet

What this pack is for

Use this pack to collect the minimum correct dimensions, support conditions, and marked photos/sketches needed to start quotation and engineering review with fewer follow-up questions.

- Fixed ladders (vertical wall-mounted routes)
- Caged ladders (vertical routes with cage protection)
- Roof access / parapet ladders (roof-edge transition routes)

This is a practical buyer worksheet, not a concept brochure. It is intended for first-time buyers, contractors, engineers, procurement teams, and site staff.

Project / Contact

Project / Site name _____
Date _____ Company _____
Contact _____
Email _____
Phone / WhatsApp _____
Site location _____
Route ID / Tag _____ Quantity _____

What to send

- Wide context photo showing the full wall or structure and intended ladder line
- Base area photo showing the mounting surface, with tape measure visible when possible
- Top or roof-edge photo showing parapet, coping, hatch, or guardrail conditions
- One hand sketch or screenshot with the main heights and top transition marked
- Partial PDF / DWG / DXF if any drawing already exists

Before you send

- Route type is clear
- Base reference and top reference are labeled
- Main climb height is provided, even if approximate
- Top arrival condition is stated
- At least one photo shows the mounting surface and any obstructions
- No-drill / waterproofing / restricted-fixing zones are called out

How this expanded pack is organised

- Page 2 explains how to mark photos, choose units, and label reference levels.
- Pages 3 to 4, 6 to 7, and 9 to 10 are two-page guide sets: one page for the enlarged wireframe, one page for the marker explanations.
- Pages 5, 8, and 11 are the matching fill-in sheets that use the same measurement names as the guide pages.
- If you have more than one route, duplicate the matching fill-in page and label each Route ID.

How To Mark Photos / Sketches / PDFs

Use the same labels in your markup that appear again on the wireframe guide pages.

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Step-by-step workflow

- Choose one base reference: FFL, Grade, or Platform Level.
- Choose one top reference: Roof Level, Landing Level, or Top Platform Level.
- Circle the start point and end point on the photo or sketch.
- Add arrows between those points and write the measurement label next to each arrow.
- Write APPROX for estimated values and FIELD VERIFY if the condition needs a close-up photo instead.

Units and reference labels

mm inches

Base reference label:

FFL Grade Platform Level

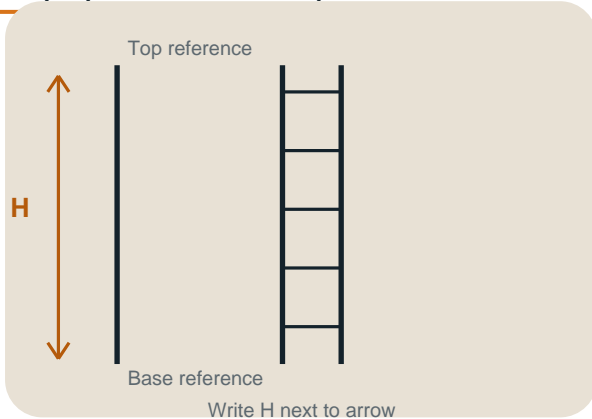
Top reference label:

Roof Level Landing Level Top Platform Level

Use one pair of reference labels consistently on every marked photo for the same route.

Example markup logic

Simple photo / sketch example



What to write on the markup

- Write the measurement name first: H, S, RL, P, T, C, OH, CS, CE, or LD1.
- Then write the value and unit: for example H = 3720 mm.
- If the value is estimated, write APPROX beside it.
- If the condition cannot be measured, write FIELD VERIFY and attach a close-up photo.
- If there is a sensitive fixing zone, circle it and write NO DRILL.

No CAD? Send this anyway

- Send the best available information: marked phone photos, hand sketch, screenshot markup, or partial drawing.
- A clear marked photo is better than an unmarked full drawing if the route is easy to see.
- If a rooftop route is involved, always include at least one photo of the parapet or roof edge.

Fixed Ladder Wireframe Guide

Read this page first. This page is the enlarged wireframe. Marker explanations are on Page 4 and the fill-in page.

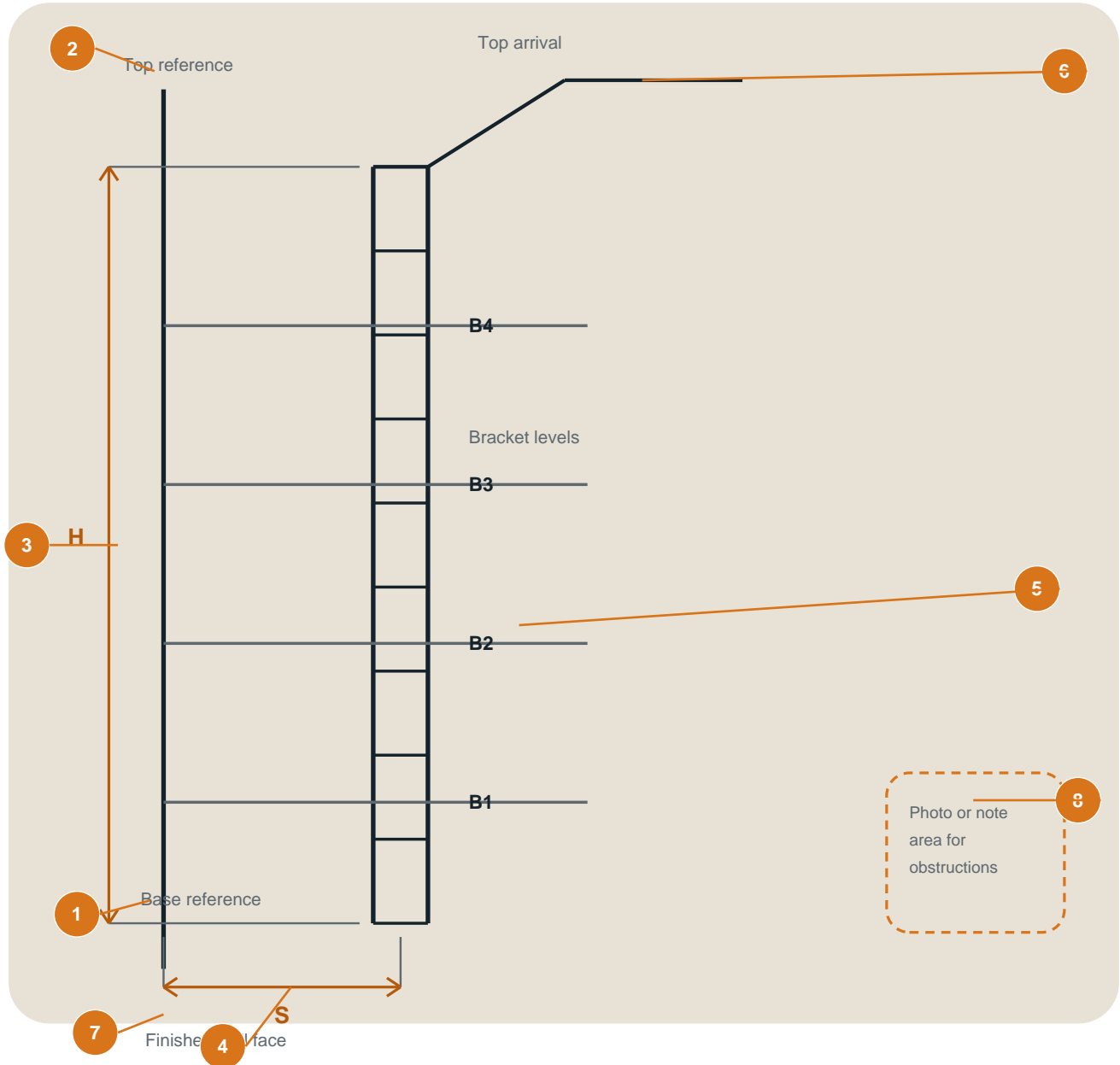
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Wireframe Diagram A - Fixed ladder side view with clear markers

Large wireframe



How to use this diagram

- Review the marker numbers first, then measure the same items on-site and transfer them to Page 5.
- If a bracket level cannot be measured, mark the available fixing zone on a photo instead.
- If top arrival is unusual, sketch the transfer condition beside the marked photo and state it again on the fill-in page.

Fixed Ladder Marker Reference

This page explains every marker used on Page 3. The matching fill-in sheet is on Page 5.

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Marker reference and fill-in mapping

Marker guide A

1 Base reference
The level where the measurement starts. Use FFL, Grade, or Platform Level and keep it consistent on the photo and the form.

2 Top reference
The level where the fixed ladder must safely arrive, such as Landing Level or Roof Level.

3 H = climb height
Measure vertically from the base reference to the top reference. This is the main sizing input.

4 S = stand-off
Measure how far the ladder sits out from the finished wall face. Note how you measured it.

Marker guide B

5 Bracket levels B1-B4
Record the height of each bracket centerline from the base reference, or mark the fixing zones on a photo.

6 Top arrival
State whether the route is walk-through, side-step, or another transition condition.

7 Finished wall face
Show the actual mounting surface: concrete, blockwork, steel frame, cladding-over-structure, or another base.

8 Obstruction / photo note zone
Attach a close-up photo if pipes, guardrails, overhangs, or restrictions sit near the ladder line.

How to use this page

- Match each marker number to the same measurement name on the fill-in sheet.
- If a value is approximate, keep the same label and add APPROX beside it on the photo and on the form.
- If a condition cannot be measured, write FIELD VERIFY and attach a close-up photo.

Fixed Ladder Fill-in Sheet

Use after reviewing Pages 3 and 4. The field names below match the marker guide exactly.

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Route header

Route ID / Tag _____

Ladder location / area _____

Base reference used _____

Top reference used _____

Quantity _____ Units mm in _____

A. Heights and references

Climb height H _____ APPROX

Base elevation (if known) _____

Top level / landing note _____

Use the same base reference and top reference labels that appear on the marked photo.

B. Mounting and stand-off

Mounting base: Concrete Blockwork Steel frame Tank / silo shell Other

Finished surface: Painted wall Cladding Bare concrete Other

Stand-off S _____

How measured _____

For example: to rung centerline / to rung front edge / photo attached

C. Bracket levels B1-B4

Bracket 1 _____ mm in

Bracket 2 _____ mm in

Bracket 3 _____ mm in

Bracket 4 _____ mm in

More _____

D. Top arrival and restrictions

- Walk-through to landing / roof
- Side-step off ladder to landing / platform
- Ladder ends below landing
- Other transition

Top arrival notes _____

Obstructions near ladder line: No Yes

Waterproofing / no-drill zone at fixing line: No Yes

Notes / hand sketch / extra dimensions

Roof / Parapet Transition Wireframe Guide

Read this page first. This page is the enlarged wireframe. Marker explanations are on Page 7 and the fill-i

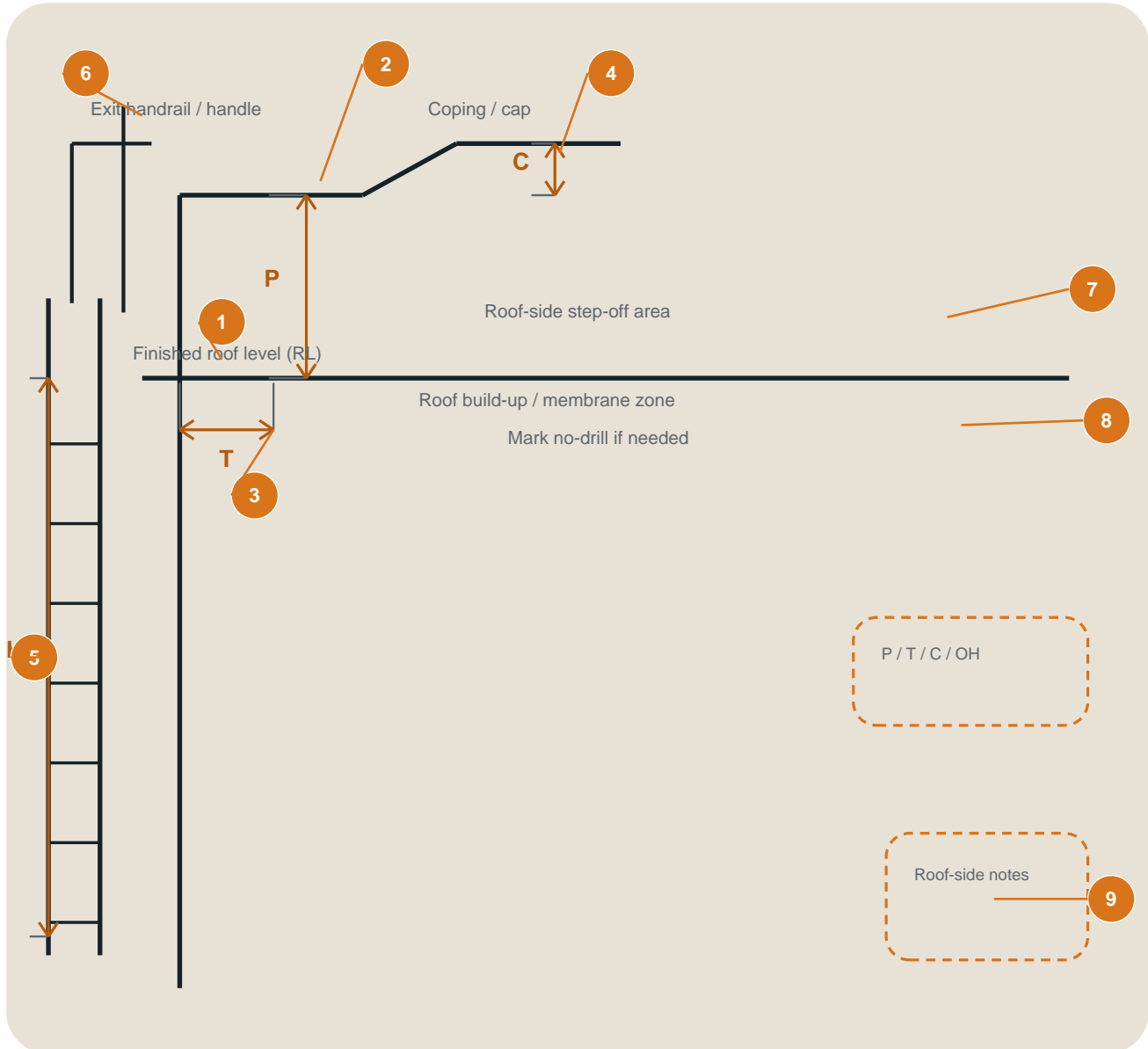
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8.

Wireframe Diagram B - Roof-edge and parapet transition section

Large wireframe



How to use this diagram

- Mark RL and Parapet Top first, then add P, T, C, and OH around those two references.
- If a no-drill zone exists, circle it directly on the marked photo and write NO DRILL.
- If a hatch, guardrail, or roof-side obstacle affects exit, include at least one dedicated close-up photo.

Roof / Parapet Marker Reference

This page explains every marker used on Page 6. The matching fill-in sheet is on Page 8.

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Marker reference and fill-in mapping

Marker guide A

- 1 RL = roof level**
Mark the finished roof surface clearly. This is the reference for parapet height and top transition.
- 2 P = parapet height**
Measure vertically from RL to the top of the parapet.
- 3 T = parapet thickness**
Measure the wall thickness at the fixing zone or mark the section on a photo.
- 4 C / OH = coping thickness and overhang**
Show coping thickness and any overhang that affects the top exit geometry.
- 5 H = climb height to roof level**
Measure vertically from the base reference to RL.

Marker guide B

- 6 Exit handrail / handle**
State whether exit handrails, exit handles, a gate, or a hatch condition is required.
- 7 Roof-side step-off area**
Describe the clear standing area, slope, nearby obstacles, or guardrail conditions at roof level.
- 8 Membrane / no-drill zone**
Circle and label any waterproofing or restricted-fixing zone so it is visible before design starts.
- 9 Roof-side notes**
Use this area to add photo-based notes when exact dimensions are not available yet.

How to use this page

- Keep RL and Parapet Top visible on the marked photo, then label P, T, C, OH, and H around those references.
- Use NO DRILL only when the restricted zone is actually circled on the image.
- If roof-side obstacles affect exit, describe them on the form and include a close-up photo.

Roof / Parapet Access Fill-in Sheet

Use after reviewing Pages 6 and 7. Keep the same labels on the marked photo and on this form.

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Route header

Route ID / Tag _____

Building / roof area _____

Base reference used _____

Units mm in _____

Top reference used _____

A. Levels and climb height

Roof level RL _____ APPROX

Climb height H _____ APPROX

Base elevation (if known) _____

Mark RL directly on the photo at the finished roof surface.

B. Parapet and coping

Parapet height P _____

Parapet thickness T _____

Coping thickness C _____

Overhang OH _____

If the overhang is hard to measure, write Not sure and attach a close-up photo.

C. Top exit requirements

- Exit handrails
- Exit handle(s) only
- Gate at roof entry
- Roof hatch / hatch curb
- Guardrail return near ladder exit
- Other

D. Roof-side restrictions

Available clear area _____

Approx size / obstacles / slope _____

No-drill / membrane restriction near top fixing: No Yes

If yes, circle the exact zone on the photo and write NO DRILL.

Notes / roof-edge details / special restrictions

Caged Ladder / Landing Wireframe Guide

Read this page first. This page is the enlarged wireframe. Marker explanations are on Page 10 and the fill

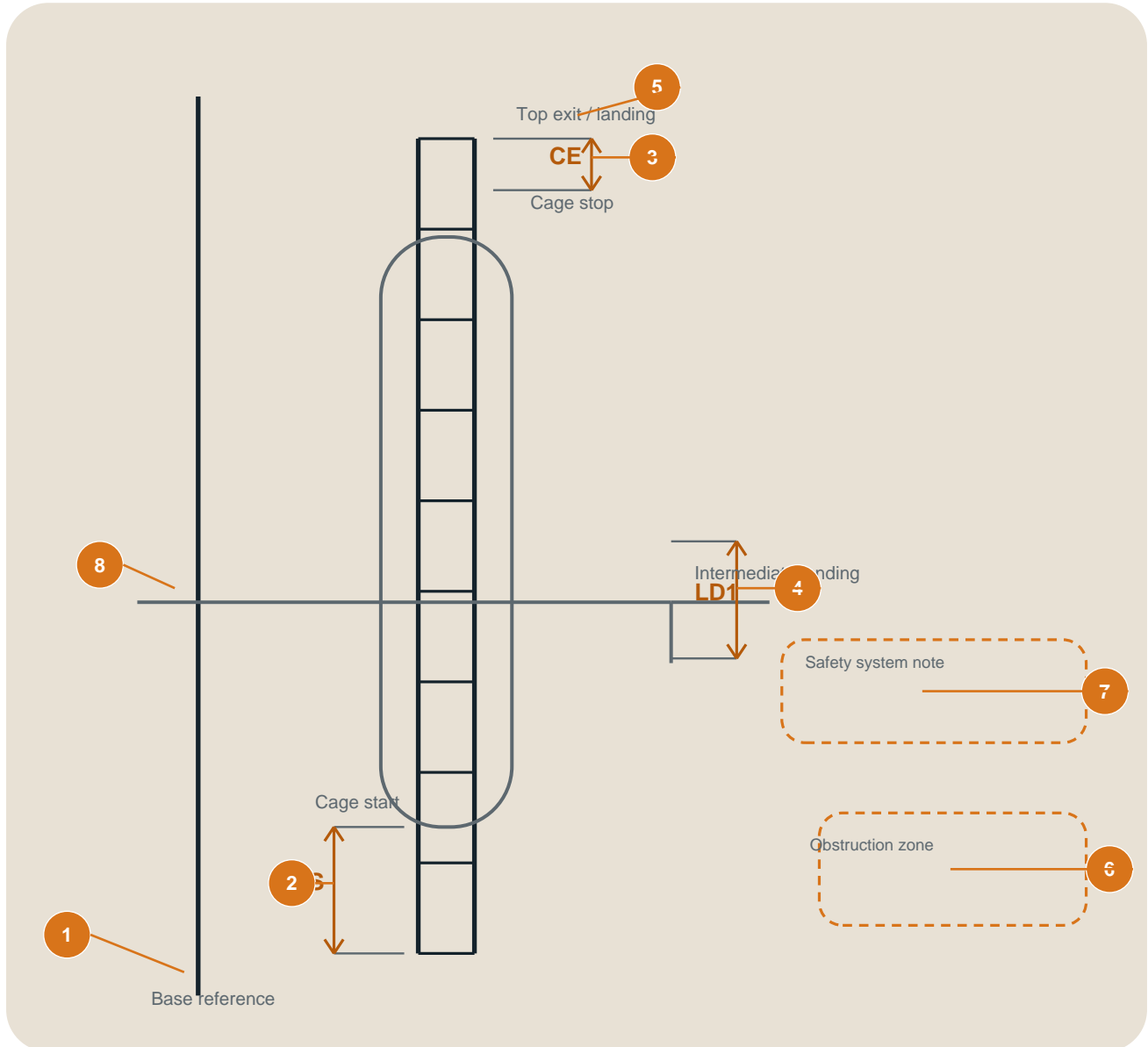
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Page 11.

Wireframe Diagram C - Caged ladder, cage limits, and optional landing

Large wireframe



How to use this diagram

- Fill only the protection, cage, and landing items that apply to the route.
- If you do not know the cage limits, mark approximate start and stop zones on a photo and write APPROX.
- If the route is segmented, list each existing landing height separately on Page 11.

Caged Ladder / Landing Marker Reference

This page explains every marker used on Page 9. The matching fill-in sheet is on Page 11.

PAGE 10

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Marker reference and fill-in mapping

Marker guide A

1 Base reference
Use the same base reference as the route measurement pages.

2 CS = cage start
Height from the base reference to the point where the cage starts.

3 CE = cage stop
Distance from the top exit down to the point where the cage stops.

4 LD1 = landing level
Any intermediate platform, floor, or roof level that breaks the climb into segments.

Marker guide B

5 Top exit / landing
Where the route ends and the operator transfers onto the roof, platform, or landing.

6 Obstruction zone
Note anything behind or beside the cage that affects clearance.

7 Safety system note
State whether a ladder safety system or fall-arrest device is required by site policy.

8 Intermediate landing logic
Use when the climb is segmented or when engineering needs to advise on landing positions.

How to use this page

- Use CS, CE, and LD1 only when those conditions actually apply to the route.
- If the route is segmented, keep each landing height separate instead of combining them into one note.
- State whether the safety system note is a requirement or only a project option.

Cage / Landing / Accessories Fill-in Sheet

Use after reviewing Pages 9 and 10. Fill only the sections that apply to the route.

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Route header

Route ID / Tag _____ Route area _____

Units mm in Base reference used _____

Top reference used _____

A. Protection type and cage fields

- No cage / no protection required
- Cage required
- Ladder safety system / fall-arrest device required

Cage inside diameter _____

Cage start CS _____

Cage stop CE _____

Site policy or technical basis

B. Landings / rest platforms

Need intermediate landings: No Yes Not sure

Landing / Level 1 mm in

Landing / Level 2 mm in

Landing / Level 3 mm in

Describe any existing floor, platform, or roof level that can act as a landing.

C. Accessories and environment

- Walk-through extension
- Side-step landing assist
- Bottom security door / controlled access
- Self-closing gate at top entry
- Back-to-wall clearance issue
- Hoop / handhold at top transition
- Tool carry constraint
- Stainless preference
- HDG preference
- Painted finish preference
- Coastal / chloride exposure
- Wash-down / chemical exposure
- Indoor dry

Submission reminder

- Attach marked photos, hand sketch, marked screenshots, and any partial CAD you have.
- In your message, note route ID, quantity, environment, and any restricted-fixing zones.
- If the route is segmented, clearly state whether the listed landings already exist or need to be supplied.

Notes / special constraints / questions
