

**DETAIL i**  
Typical elevations - B02 handrail to steps @ 1:20

The diagram shows a stepped cantilever beam fixed to a wall on the left. The beam has three segments: a vertical segment of height 1000 mm, an inclined segment of length 1400 mm, and a final vertical segment of height 1000 mm. The horizontal distance from the wall to the start of the inclined segment is 50 mm, and the horizontal distance from the end of the inclined segment to the end of the final vertical segment is also 50 mm. A horizontal force of 1000 N is applied at point A (top of the first vertical segment), and another horizontal force of 1000 N is applied at point B (bottom of the first vertical segment). Point C is at the fixed support. The beam is labeled with 'A', 'B', and 'C' at the points of application of the forces.

Technical drawing of a staircase railing system. The drawing shows a side view of a railing with two vertical posts and a horizontal handrail. The dimensions are indicated by blue lines and text:

- The total width of the railing assembly is 1050.
- The distance between the two vertical posts is 50.
- The height of the railing from the ground to the top of the handrail is 1000.

Technical drawing of a staircase with handrails. The drawing shows a side view of the stairs with a handrail on both sides. Key dimensions and labels include:

- 8 risers, handrails to both sides**: Text at the top left of the drawing.
- 1400**: Total horizontal length of the staircase.
- 50**: Horizontal distance between handrail posts.
- equql**: Label for the first horizontal segment of the handrail.
- equal**: Label for the second horizontal segment of the handrail.
- 100**: Vertical height of the handrail from the ground level.
- 1000**: Vertical height of the handrail from the top of the stairs.

Technical drawing of a vertical section of a wall. Three horizontal reinforcement bars are shown, each labeled **B02**. The top bar is at the top edge, the middle bar is in the middle, and the bottom bar is at the bottom edge. A dimension line on the right indicates a height of 1000 units between the top and bottom bars.

1:250

K04/01

K04/03

K04/05

K04/02

K04/04

BLOCK 2

BLOCK 3

**Kerbs & edgings:**  
**K04:** Steps: Concrete step units with contrasting nosing inlay. L37/315 and drawing  
**252194-LPP-95-SW-L00-DET-L-0460**  
 Step units laid on 40mm bed mortar over mass concrete base installed by landscape subcontractor.  
 Concrete to engineer's specification.

**B02:** Steel handrail to steps. as L37/150.

A 50mm dia. handrail with end caps. Jointing to fabricator's detail.

B Vertical support with baseplate.

C Coverplate to fixing.

1. All bedding, subbase and slab build up to engineers details
2. All footings to engineers details
2. For detailed sections refer to drawings **252194-LPP-90-SW-L00-DSE-L-010 0** series.

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| C4 | RD | 2021-04-14 | Final Construction issue                                |
| C3 | RD | 2019-09-02 | Changes in line with agreed VE                          |
| C2 | RD | 2019-02-22 | Downstands to handrail added in accordance with Part M. |
| C1 | RD | 2018-03-16 | Issued for Construction                                 |

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(1) Do not scale from drawings - use written dimensions only. (2) All dimensions are in millimeters unless noted. (3) All dimensions shall be verified on site before proceeding with the work. (4) Landscape Projects shall be notified of any discrepancies. (5) Engineer to specify all sub-bases. Any below ground construction is indicative.

|                                                   |     |        |         |                                     |     |   |      |
|---------------------------------------------------|-----|--------|---------|-------------------------------------|-----|---|------|
| Project Title                                     |     |        |         | Drawing Title                       |     |   |      |
| <b>Manchester New Square</b><br><b>Manchester</b> |     |        |         | <b>Details:</b><br><b>Handrails</b> |     |   |      |
| Drawn Date                                        |     | Drawn  | Checked |                                     |     |   |      |
| 2018-03-16                                        |     | SB     | NCS     |                                     |     |   |      |
| Scale                                             |     | Status |         | Revision                            |     |   |      |
| varies @ A1                                       |     | Final  |         | C4                                  |     |   |      |
| Drawing No.                                       |     |        |         |                                     |     |   |      |
| 252194                                            | LPP | 95     | SW      | L00                                 | DET | L | 0462 |

landscapeprojects

Landscape Architecture & Design  
31 Blackfriars Road Salford Manchester M3 7AQ  
PHONE: 0161 839 8336 FAX: 0161 839 7155  
EMAIL: [post@landscapeprojects.co.uk](mailto:post@landscapeprojects.co.uk)