

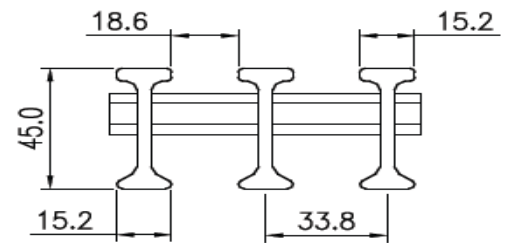


# DURAGRID®

## Phenolic Grating I-5500 45/19mm

### Technical Data

|                             |                                     |
|-----------------------------|-------------------------------------|
| Material:                   | Fiberglass reinforced polymer (FRP) |
| Production method:          | Pultrusion                          |
| Standard panel size:        | 4500mm x 1000mm                     |
| Panel height:               | 45mm                                |
| Bearing bar dimensions:     | 15/4/15mm                           |
| Bearing bar space:          | 18,6mm                              |
| Open area:                  | 55% (NORSOK)                        |
| Weight per m <sup>2</sup> : | 21, 5 kg                            |
| Slip resistance:            | Gritted surface                     |
| Color:                      | Black RAL 9004                      |



### Fire Safety

|                            |                   |
|----------------------------|-------------------|
| Incombustibility:          | ASTM E136-99      |
| Limited incombustibility:  | ASTM D635-98      |
| Structural fire integrity: | DNV type approval |
| Static electricity:        | EN 13463-1:2001   |
|                            | EN 50014          |
| Smoke toxicity:            | NES 713           |
| Smoke development:         | ISO 5659-2:1994   |
| Flame spread:              | ASTM E84-05       |
| Temperature area:          | -60° C ⇨          |

Patented 3-piece cross-rod system for extra strenght

- ✓ Higher point load
- ✓ Less deflection
- ✓ Enhanced durability through the use of transport trolleys

### I-5500 45mm Bearing Bars Spaced 34mm On Center

| Span mm | Load KN | ΔU Deflection in mm under uniform load (1 sqm) |       |       |      |       | ΔC Deflection in mm under concentrated load (1m) |       |      |       |       |       | 2 to 1 safety factor Safe load (KN) | Deflection mm |
|---------|---------|--|-------|-------|------|-------|--|-------|------|-------|-------|-------|-------------------------------------|---------------|
|         |         | 3  | 5     | 8     | 10   | 13    | 15   | 20    | 25   | 39    | 50    | 100   |                                     |               |
| 600     | Δ U     | 0,07   | 0,11  | 0,16  | 0,22 | 0,28  | 0,33   | 0,44  | 0,54 | 0,85  | 1,09  | 2,18  | 376                                 | 8,18          |
|         | Δ C     | 0,17   | 0,29  | 0,44  | 0,58 | 0,76  | 0,87   | 1,16  | 1,45 | 2,27  | 2,90  | 5,81  |                                     |               |
| 800     | Δ U     | 0,19   | 0,32  | 0,48  | 0,63 | 0,82  | 0,95   | 1,27  | 1,59 | 2,47  | 3,17  | 6,34  | 212                                 | 13,45         |
|         | Δ C     | 0,38   | 0,63  | 0,95  | 1,27 | 1,65  | 1,90   | 2,54  | 3,17 | 4,95  | 6,34  | 12,69 |                                     |               |
| 1000    | Δ U     | 0,44   | 0,73  | 1,09  | 1,45 | 1,89  | 2,18   | 2,91  | 3,64 | 5,67  | 7,27  |       | 135                                 | 19,69         |
|         | Δ C     | 0,70   | 1,16  | 1,75  | 2,33 | 3,03  | 3,49   | 4,65  | 5,82 | 9,08  | 11,64 |       |                                     |               |
| 1200    | Δ U     | 0,87   | 1,45  | 2,17  | 2,90 | 3,77  | 4,35   | 5,80  | 7,25 | 11,30 |       |       | 94                                  | 27,13         |
|         | Δ C     | 1,16   | 1,93  | 2,90  | 3,86 | 5,02  | 5,80   | 7,73  | 9,66 |       |       |       |                                     |               |
| 1400    | Δ U     | 1,59   | 2,65  | 3,97  | 5,29 | 6,88  | 7,94   | 10,58 |      |       |       |       | 69                                  | 36,41         |
|         | Δ C     | 1,81   | 3,02  | 4,54  | 6,05 | 7,86  | 9,07   | 12,10 |      |       |       |       |                                     |               |
| 1600    | Δ U     | 2,70   | 4,49  | 6,74  | 8,99 | 11,68 |  |       |      |       |       |       | 53                                  | 47,63         |
|         | Δ C     | 2,70   | 4,49  | 6,74  | 8,99 | 11,68 |  |       |      |       |       |       |                                     |               |
| 1800    | Δ U     | 4,30   | 7,16  | 10,74 |      |       |  |       |      |       |       |       | 42                                  | 59,77         |
|         | Δ C     | 3,82   | 6,37  | 9,55  |      |       |  |       |      |       |       |       |                                     |               |
| 2000    | Δ U     | 6,55   | 10,92 |       |      |       |  |       |      |       |       |       | 34                                  | 73,87         |
|         | Δ C     | 5,24   | 8,73  |       |      |       |  |       |      |       |       |       |                                     |               |

Art. no.: G554519S

Black RAL 9004

