



## Declaration of Performance

Prestressed concrete lintels

- Manufacturer:** Ibstock, Leicester Road, LE67 6HS
- Intended use:** Intended use in masonry walls and partitions - to support loads over openings with a semi-structural role in the works (up to a maximum clear span of 3.3 m)
- System of assessment and verification:** System 3
- Notified Body:** BRE (Notified Body ID No. 0832) performed initial type testing under AVCP System 3 and issued test/ calculation reports: No. 258-597

| Lintel Reference:                | HF S15                  |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
|----------------------------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Lintel length (mm)               | 600                     | 750          | 900          | 1050         | 1200         | 1350         | 1500         | 1650         | 1800         | 2100         | 2400         | 2700        | 3000        | 3300        | 3600        | 4200        |
| Lintel clear span (mm)           | 300                     | 450          | 600          | 750          | 900          | 1050         | 1200         | 1350         | 1500         | 1800         | 2100         | 2400        | 2700        | 3000        | 3300        | 3900        |
| Load Bearing capacity (kN/m)     | <b>113.39</b>           | <b>82.33</b> | <b>64.58</b> | <b>53.10</b> | <b>45.06</b> | <b>39.12</b> | <b>34.55</b> | <b>28.00</b> | <b>22.90</b> | <b>16.10</b> | <b>11.88</b> | <b>9.09</b> | <b>7.15</b> | <b>5.74</b> | <b>4.69</b> | <b>3.25</b> |
| Deflection at 1/4 load capacity  | 0.02                    | 0.04         | 0.08         | 0.13         | 0.21         | 0.31         | 0.44         | 0.55         | 0.66         | 0.93         | 1.26         | 1.64        | 2.09        | 2.61        | 3.21        | 4.68        |
| Harmonised standard              | BS EN 845-2             |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Profile (Width x Height)         | 140 x 150 mm            |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Minimum built in length          | 150 mm                  |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Failure mode(s)                  | Flexure & Shear         |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Water absorption                 | 1.6 g/m <sup>2</sup> .s |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Water Vapour Permeability        | 5/15 µ                  |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Mass per unit area               | 316.2 kg/m <sup>2</sup> |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Thermal resistance               | 1.00 W/(m.K)            |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Resistance to fire               | R90                     |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Durability (Against corrosion)   | A2                      |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Durability (Against freeze/thaw) | Resistant               |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |
| Dangerous substances             | None                    |              |              |              |              |              |              |              |              |              |              |             |             |             |             |             |

The declaration of Performance is issued under the sole responsibility of the manufacturer identified in point 1.

Technical documentation and load/span tables, see the Product catalogue or website: [www.supremeconcrete.co.uk](http://www.supremeconcrete.co.uk)

Signed for and on behalf of the manufacturer by:

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Position: Ibstock Concrete Operations Director

Place: Ibstock, Leicester Road, LE67 6HS

Date: 3<sup>rd</sup> February 2020