Durbar®
Hot-rolled floor plate – only by Tata Steel
Durbar is hot-rolled structural steel floor plate with a distinctive, evenly distributed raised stud pattern - only by Tata Steel.

Outstanding slip resistance
Slips and trips are the most common cause of injuries at work. Durbar’s unique pattern of raised studs has been proven, by external laboratory testing, to provide outstanding resistance to slip, in both dry and wet conditions.

Fire resistance
Durbar’s structural properties mean that you can rely on it to perform, even when subjected to extreme heat. At temperatures where aluminium floor plates have begun to melt, Durbar steel floor plate will still be supporting design loads.

Saving you money
Durbar’s structural properties reduce cost by eliminating the need for separate structural and flooring components – a distinct advantage over other materials, such as aluminium.

Easy to clean, self-draining surface
Durbar’s evenly distributed, raised stud pattern creates a self-draining surface which is easy to clean. The process of producing Durbar even produces an abrasion-resistant surface, giving it a long service life.

A sustainable choice
Durbar is produced in the UK to the highest standards, including BES 6001 for responsible sourcing which guarantees the integrity of the supply chain.

Totally recyclable
As with all steel, Durbar is 100% recyclable at the end of its life and by using genuine Durbar, you can be assured of a perfect match to existing installations, helping to extend serviceable life.

Quality, choice and availability
Durbar is certified to ISO TS 16949:2009 and meets the requirements of the Construction Products Directive. It is available in three different structural grades to fit your needs. Durbar is supplied via an extensive UK network of in-house and partner distributors.
OUTSTANDING PROVEN SLIP RESISTANCE

Unique self-draining stud pattern provides a slip-resistant surface.

Keeping you safe
According to the UK Health and Safety Executive (HSE), over a third of all major injuries reported in the UK each year are caused as a result of a slip or trip. That amounts to 172,000 injuries to workers every year, not counting injuries to the general public.

Products that contribute to safer passage over surfaces, can reduce the risk of slips and trips, whether in permanent conditions, such as in factories, or temporary conditions, such as construction, building and planned maintenance.

The dense pattern of studs on Durbar creates a slip-resistant surface at all angles and allows plates to be used in any direction. Durbar has a unique diamond pattern which, on average, is 23% deeper and has 10% more studs than other generic steel floor plates.

Durbar Comparative Performance

<table>
<thead>
<tr>
<th>Item</th>
<th>Potential for slip when dry</th>
<th>Potential for slip when wet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Durbar</td>
<td>Extremely Low</td>
<td>Low</td>
</tr>
<tr>
<td>Generic type 'T' floor plate</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>Generic type 'A' floor plate</td>
<td>Low</td>
<td>Low</td>
</tr>
</tbody>
</table>

Tested and trusted
In recent independent tests carried out on genuine Durbar floor plate, slip resistance was found to be consistently good, in both dry and wet conditions.

The UK HSE and the influential UK Slip Resistance Group (UKSRG) recommend the use of a pendulum test to measure the slip resistance of flooring products. This test is according to EN 13036-4. The pendulum test measures the dynamic coefficient of friction and is designed to replicate a pedestrian heel strike. This has been found to best simulate the most common cause of slips.

Independent tests on genuine Durbar using the pendulum tester according to EN 13036-4 have shown consistently good results in both wet and dry conditions. The measured pendulum test value (PTV) in the wet condition of 46 represents a 'Low' slip potential, according to UKSRG guidelines, while in the dry condition, a PTV of 73 provides a classification of 'Extremely Low' slip potential.

Comparative tests on generic floor plate adopting either 'T' or 'A' patterns have shown that the unique pattern of studs on genuine Durbar results in the lowest allround slip potential.

The actual slip resistance of Durbar or any other floor plate will depend on real-life application and the environment in which it is used. Galvanising, painting or coating Durbar can influence the slip resistance.

1. UK Health & Safety Executive Statistics, 2017/18; non-fatal injuries to workers according to self-reported estimates from the Labour Force Survey
2. External laboratory results performed according to BS EN13036-4 BS7976 / UK Slip Resistance Group guidelines, Wessex Precision Instruments Ltd, July 2019
DURBAR... AGAIN AND AGAIN

We offer a choice of Durbar floor plate to meet your needs.

Typical applications
- Stairs and walkways
- Bridges
- Steps and safety platforms
- Cladding and protective barriers
- Commercial vehicles
- Containers
- Lifts
- Shipbuilding
- Offshore installations

The iconic pattern of Durbar also provides an attractive option for outstanding architectural aesthetics.

Readily available and easy to process
We supply Durbar in both coil and sheet form. The consistent quality of Durbar offers reliable, repeatable processing. It can be readily cut, bent and welded using normal procedures.

We supply sheet through an extensive network of distributors throughout the UK, all decoiled at our facilities in Llanwern.

Decoiled Durbar sheet from Tata Steel benefits from a high quality surface finish and excellent flatness due to the class-leading brushing and flattening capability of our decoiling facility.

A sustainable choice
Durbar has been a market leading floor plate in the UK for over 50 years. New Durbar is an exact match with existing installations, enabling concern-free refurbishment.

Durbar is exclusively manufactured at Tata Steel’s Port Talbot site which is certified for responsible sourcing to BES6001 for the manufacture of hot-rolled coil.

It can be easily reused and is 100% recyclable at the end of its useful life. Durbar can be galvanised or painted for additional corrosion resistance.
Durbar is Tata Steel’s range of hot-rolled structural steel floor plate.

Extensively tested and proven, Durbar’s structural properties reduce construction costs by eliminating the need for separate structural and flooring components. Versatile and durable, Durbar is manufactured with a distinctive raised stud pattern for slip resistance.

We have been producing Durbar to the highest quality standards for more than 50 years. Durbar is produced under quality standard ISO TS 16949:2009 and meets the requirements of the Construction Products Directive (CPD).

Notes:
1. Lower yield strength or 0.2% proof stress applies.
2. Material thickness (t) in millimetres.
3. Impact properties of quality JR products are verified only when specified at the time of the enquiry and order.
4. Impact strengths apply to t ≥ 6mm and are for standard test pieces only

Chemical composition

<table>
<thead>
<tr>
<th>C</th>
<th>Mn</th>
<th>P</th>
<th>S</th>
<th>Si</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max</td>
<td>Max</td>
<td>Max</td>
<td>Max</td>
<td>Max</td>
<td>Max</td>
</tr>
</tbody>
</table>

S235JR+AR 0.17 1.40 0.035 0.035 - 0.012
S275JR+AR 0.21 1.50 0.035 0.035 - 0.012
S355JR+AR 0.24 1.60 0.035 0.035 0.55 0.012

Values are in weight percentages

Certification
Durbar is supplied as standard with a full 3.1 test certificate.

Weights

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Weight (kg/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>26.83</td>
</tr>
<tr>
<td>4.50</td>
<td>38.59</td>
</tr>
<tr>
<td>6.00</td>
<td>50.36</td>
</tr>
<tr>
<td>8.00</td>
<td>66.04</td>
</tr>
<tr>
<td>10.00</td>
<td>81.73</td>
</tr>
<tr>
<td>12.50</td>
<td>101.34</td>
</tr>
</tbody>
</table>

Note: These are typical weights; actual weights will vary owing to stud height and positive width tolerances.

Dimensional window

<table>
<thead>
<tr>
<th>Standard thickness (mm)</th>
<th>Standard widths (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>1000 -1250</td>
</tr>
<tr>
<td>4.50</td>
<td>1000 -1500</td>
</tr>
<tr>
<td>6.00</td>
<td>1000 -1500</td>
</tr>
<tr>
<td>8.00</td>
<td>1000 -1500</td>
</tr>
<tr>
<td>10.00</td>
<td>1000 -1500</td>
</tr>
<tr>
<td>12.50</td>
<td>1000 -1500</td>
</tr>
</tbody>
</table>

Notes:
1. Standard cut lengths are twice the widths shown, e.g. the standard cut length of 1000mm wide Durbar is 2000mm. Please refer to Tata Steel or your local sales representative for other dimensions.
2. The thickness of Durbar is that of the plain plate, exclusive of the raised pattern. The studs in the pattern are typically between 1.5 and 2.2mm height.

Tolerances on thickness
Thickenss tolerances as per EN10051:2010.

CE marking
Durbar is CE marked and is fully compliant with the Construction Products Regulation.

Product support
We want you to get the best from our products. Our technical engineers and trained sales staff are always happy to answer your questions on steel selection and application of Durbar.

Further design guidance is provided on our website and our engineers are available to assist you with making the most of Durbar.