Product Code Prefix

# STX PLATE – 200MM OBDURO TDP/TSP COATED

Product 0		Size	Thickness	Hole Diameter	Hangers	Coating
Guide	STX	200	5	38	1HL	TDP/TSP

#### **Physical Properties**

Product Code	Product Code Plate Thickness		Weight	
	mm	mm	kg	
STX200536IHLTDP	5	200 x 200	1.494	
STX200536IHLTSP	5	200 X 200	1.494	

## Key Features

DSI Underground has developed a protective coating system that affords additional protection to products used in harsh environment areas. This process uses a combination of application of a zinc substrate with a final top coating of Thermoplastic Coating. The Thermoplastic coating has been selected based on the considerations of strength, flexibility and resistance in areas with a low pH.

- The X plate 200 provides enhanced plate strength with improved mesh containment.
- The X plate 200 has a lager bearing area when heavily loaded compared to traditional domed square plates.
- Hanging loops are optional.
- 260kN minimum compression load based on lab testing, in service conditions may vary performance.
- The X plate is compatible with current ball washers.

**Product Performance** 

- Corrosion protection may be provided by either Hot Dip Galvanising, Thermal Diffusing or Thermal Metal Spray coating together with X60 Thermoplastic coating.

#### 

Load tested in compression over 70mm hole with 24mm self aligning ball washer.

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All dimensions, weights, quantities and specifications are those applicable at the time of this publication and may be amended from time to time. Please contact your local DSI Underground representative for final confirmation of any key specifications.





SURFACE SUPPORT – PLATES

#### Product Code Prefix

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**Typical Coating Properties** 

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		Measure	Unit	Standard and Test Conditions
General properties	Maximum particle size	150	μm	ISO 8130-1
	Bulk density	0.33	g.cm <sup>3</sup>	ASTM D1895 (Method A)
	Specific gravity	0.94	g.cm <sup>3</sup>	ISO 1183
	Melt flow index	25	g/10min	ISO 1133 (190°C, 2.16kg)
	Gloss 60°	60-80	%	ISO 2813
Thermal properties	Melting temperature	90	°C	ISO 3146
	Vicat softening temperature	63	°C	ISO 306
	Maximum continuous temperature	75	°C	Test Axalta
	Thermal conductivity	0.25	W.m <sup>-1</sup> , K <sup>-1</sup>	ASTM E 1530
	Flammability rating	V-0		UL 94
Mechanical Properties	Abrasion resistance (Taber)	12	mg (weight loss)	ISO 9352 (CS-10, 1,000g)
	Adhesion	>8 (100% Y)	Мра	ISO 4624 (20mm dolly)
	Hardness	60	Shore D	ASTM D2240
	Impact resistance	>18.2	J	ASTM D2794 (1.5mm steel; ball diameter: 15.9 mm)
	Tensile strain at break	460	%	ISO 527
	Tensile strength	23	Мра	ISO 527
Electrical properties	Dielectric strength	48	kV.mm⁻¹	ASTM D149
	Volume resistivity	2.10 <sup>18</sup>	Ω.cm	ASTM D257
Properties under accelerated aging	Salt spray resistance	2,000h 0	mm (steel substrate corrosion)	ISO 9227 (NSS, with scribe)
		3,500h <1		
	UV stability <sup>1)</sup>	2,000 h	No damage	ISO 4892-3 <sup>2)</sup>
	Chemical resistance <sup>3)</sup>	20°C	60°C	
		Acids Excellent	Excellent	
		Alkalis Excellent	Excellent	ISO 2812 and ISO 4628
		Fuels Good	Poor	
		Solvents Good	Not recommended	

1) Colour and gloss deviation is colour dependent and available upon request.

2) UVB-313 lamp, cycles: 8h at 60°C (black panel) and 0.71W/m²/mm (at 310nm), then 4h at 50°C with condensation.

3) A specific chemical resistance test is recommended before any industrial application.

- Hot Dip Galvanised typical thickness 70µm.
- Thermal Diffusion typical thickness 55µm.
- Thermal Metal Spray typical thickness 75µm.
- Thermoplastic coating typical thickness 20µm Obduro X60 or equivalent.

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STX-OE

#### Colours

- Silver-Gray or Yellow.

### **Product Certifications**

- ISO 12944 part 6, corrosivity C5-M High and Im3 High.
- ISO 20340 (offshore environments), category C5-M.

## **Product Accessories Examples**

- DSI Underground manufactures a comprehensive range of plates specifically designed for this range of Plates.

#### Typically, Products used are:



## Packaging

- Star Plates are packed on special carrying clamps and then palletised.

## Notes

- DSI Underground is Quality Assured to ISO 9001:2015.

# Phone APP

- Want to know more; our full product range, knowledge centre, and other details are available via the App; available on iOS and Android devices by searching "DSI Underground".



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