

LOWPRO 23/05 ROAD PLATE

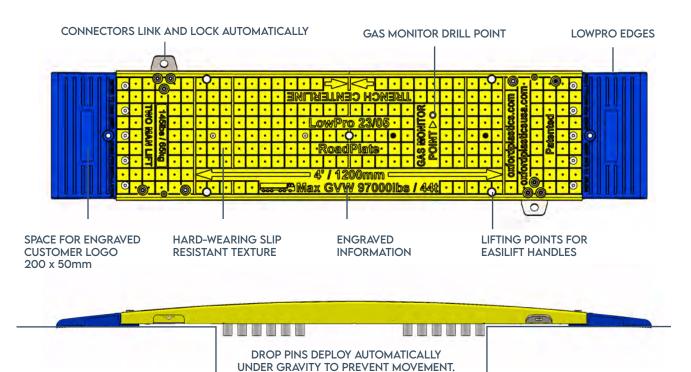




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FEATURES



FOR TRENCH SPANS FROM 400mm / 16" to 1200mm / 4'

ROBUST AND SAFE

Advanced composite technology construction, robust and durable.

Integral slip resistant texture.

Inclined rubberised LowPro Edges prevent damage to road and reduce impact on vehicles. No need to 'cold patch'.

Proven to work in ambient temperatures of +50°C to -30°C.

Non-metal construction reduces theft.

QUICK INSTALLATION

Can be manually handled without the need for heavy lifting equipment.

Quick to Install, with in-built linking and locking system, no need to bolt all items together.

Drop Pins are automatically deployed underneath to prevent movement on trenches, without the need to bolt every unit.

All parts replaceable.

EXTRAS

Supplied with EasiLift Handles to aid manual handling.

Stillages can be supplied for transit and storage.

Gas monitor point allows gas measurements to be taken without removing the Road Plate.

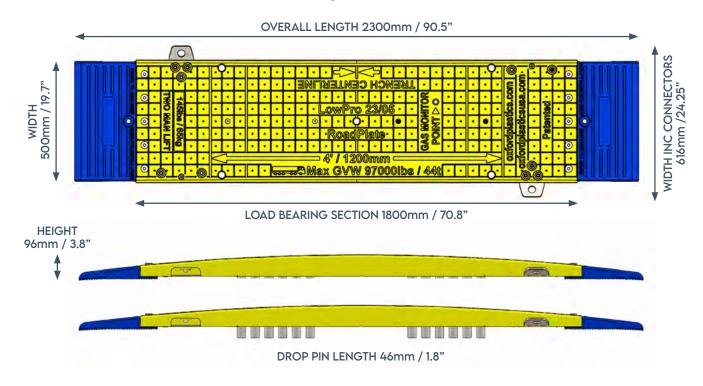
LowPro Edges can be customised with Customer Logos. MOQ 40 off for inner, 20 off for outer.

Use Road Plate end pieces to create a ramp at both ends.

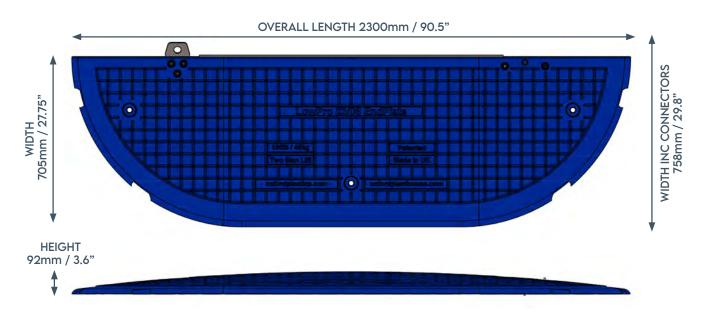


DIMENSIONS AND WEIGHTS

LOWPRO 23/05 ROAD PLATE - INNER PIECE 65kg / 145lb



LOWPRO 23/05 ROAD PLATE - END PIECE 27kg / 60lb

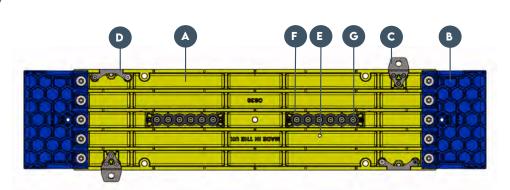


MATERIAL COMPOSITION AND PRODUCT LIFE

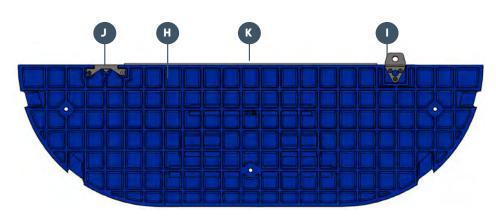
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All elements use materials that if maintained correctly will not structurally degrade in UV light, in the presence of water or salts, and are stable in ambient temperatures from +50°C to -30°C.

Batches are regularly load tested in the Oxford Plastics test facility as part of the quality control process.



INNER PIECE	Part Name	Material
A	Main Body	Glass fibre reinforced polyester resin sheet moulding
		compound + mild steel encapsulated rebar grid
В	LowPro Edge	50% Queo elastomer, 50% LDPE
С	Male Connector Plate	Galvanised mild steel
D	Female Connector Plate	Galvanised mild steel
E	Gas Monitoring Bung	HDPE
F	Drop Pin Tray	PP/PE
G	Drop Pins	Stainless steel



END PIECE	Part Name	Material
Н	Main Body	50% Queo elastomer, 50% LDPE
I	Male Connector Plate	Galvanised mild steel
J	Female Connector Plate	Galvanised mild steel
K	Reinforcing Pultrusion	Glass fibre reinforced polyester resin

LOAD DEFLECTION DATA



Deflection at 6000kg / 13,228lb

Ultimate load at failure

10.6mm / 0.42"

12,210kg / 26,918lb

Destructive testing has been carried out on the product to simulate deflection under the working load, and ultimate failure.

The testing is carried out by trained staff at Oxford Plastics specialist testing facility.

Results given are an average of 3 tests of different units.

Tab Data for the USA can be found in Appendix A.

PRODUCT RATING

The product is rated for use over spans of maximum 1200mm / 4' by vehicles with a GVW of up to

44t / 97,000lb

TEST SPECIFICATION

Span 1200mm / 4'

Load Footprint 250mm / 9.8" diameter pad with rubber base to simulate single tyre

Load LocationCentre of product



MAXIMUM AXLE WEIGHTS

TERRITORY	Max single axle weight	Max single tyre weight
EU	11.0t	5.50t
Australia	8.2t	4.1t
New Zealand	10.0t	5.0t
Japan	7.7t	3.85t
Canada	7.3t	3.65t
USA	32,000lb	16,000lb

For more detailed data on:

Multiple axle loads, Axle loads for different vehicles types, Or territories not listed,

please consult and confirm with your relevant transit authority.

LOAD RATING OVER DIFFERENT SPANS

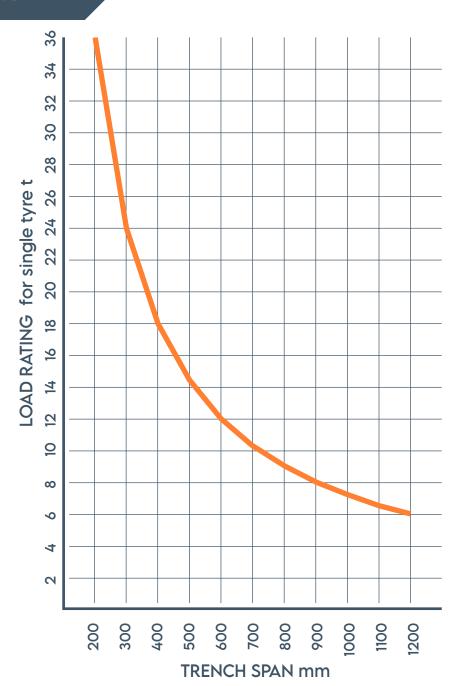
METRIC ASSESSMENT

Not to be used in USA, refer to separate USA sheet.

Load rating for single tyre, tested with 250mm diameter test pad

The rating shown includes a factor of safety of 2.

The ultimate load at failure is twice the figure shown.



QUICK REFERENCE

TRENCH SPAN 200mm 400mm 700mm 900mm 1200mm LOAD RATING 36t 18t 10.2t 8t 6t

LOAD RATING OVER DIFFERENT SPANS

USA ASSESSMENT

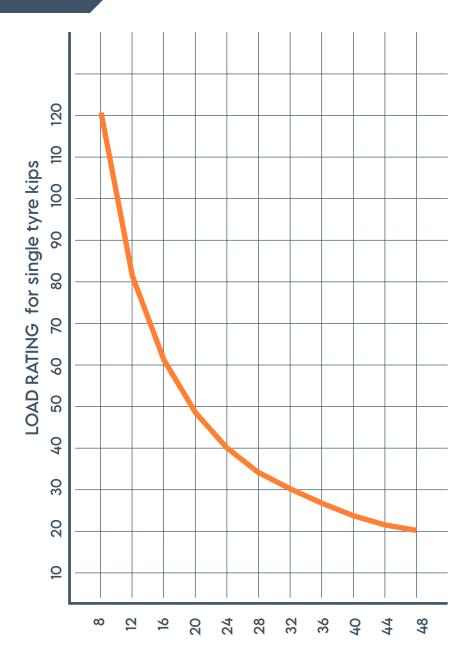
Only for use in USA, refer to separate Metric Assessment for markets outside USA.

Load rating for single tyre, tested with 10" diameter test pad

The rating shown includes a impact factor of 1.3.

The ultimate load at failure is 1.3 x the figure shown.

1 kips = 1,000lb



TRENCH SPAN inches

QUICK REFERENCE

TRENCH SPAN 8" 12" 24" 36" 48" LOAD RATING 122.1kips 81.4kips 40.7kips 27.1kips 20.3kips

LOAD RATING FOR PEDESTRIAN ONLY USAGE

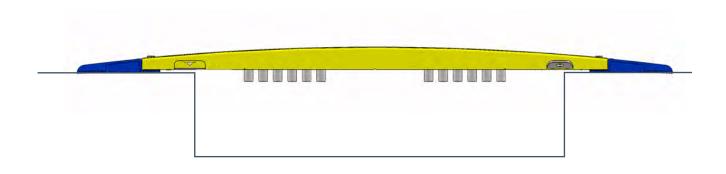
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For scenarios where the product will only experience loads of up to 400kg then the maximum span can be increased to 1500mm.

The installer should carry out a risk assessment to ensure the edge of the trench is stable enough.

The product must be positioned centrally on the trench.

Note the drop pin system will not work at spans over 1200mm, so the installer should consider bolting down.



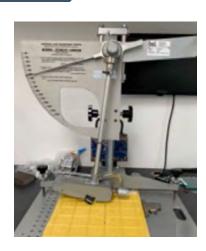
PEDESTRAIN ONLY USE	Metric	Imperial
Max Span	1500mm	59"
Max Load	400kg	880lb



SLIP RESISTANCE

Slip resistance testing has been carried out by an independent test house, in line with the requirements of UK HSE 2012 document 'Testing the slip resistance of flooring'.

Testing was carried out in 3 directions in wet and dry conditions, using a calibrated Munro slip tester using Slider 55 and Slider 96.



CLASSIFICATIONS

High Slip Potential

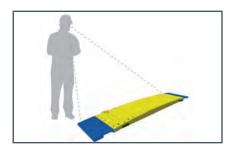
Moderate Slip Potential 25-35

Low Slip Potential

SLIDER 96 TEST RESULTS - DRY	Median Result	Classification
Parallel to traffic	68	LOW SLIP POTENTIAL
45 degrees to traffic	62	LOW SLIP POTENTIAL
Perpendicular to traffic	55	LOW SLIP POTENTIAL
SLIDER 96 TEST RESULTS - WET		
Parallel to traffic	45	LOW SLIP POTENTIAL
45 degrees to traffic	44	LOW SLIP POTENTIAL
Perpendicular to traffic	40	LOW SLIP POTENTIAL
SLIDER 55 TEST RESULTS - DRY		
Parallel to traffic	67	LOW SLIP POTENTIAL
45 degrees to traffic	69	LOW SLIP POTENTIAL
Perpendicular to traffic	66	LOW SLIP POTENTIAL
SLIDER 55 TEST RESULTS - WET		
Parallel to traffic	46	LOW SLIP POTENTIAL
45 degrees to traffic	39	LOW SLIP POTENTIAL
Perpendicular to traffic	40	LOW SLIP POTENTIAL

INSPECTION AND MAINTENANCE

Products should be inspected and cleaned between every installation as follows.



Inspect each product for signs of damage. See next page for signs of damage.



Ensure all drop pins are moving freely and the drop pin tray is tightened before use.



Ensure bolts on top surface are tight

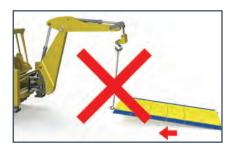


Ensure bolts on underside are tight



Clean product to remove debris, to maintain slip resistance properties

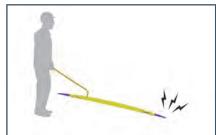
Care for the product by following the below guidance:



Do not drag the product



Do not lift the product as shown



Do not drop the product

INSPECTION AND MAINTENANCE

The images below show the signs to check for during inspection. Cracks or a bent product indicate it has been damaged through improper use. These products need to be disposed of.



Crack along rib

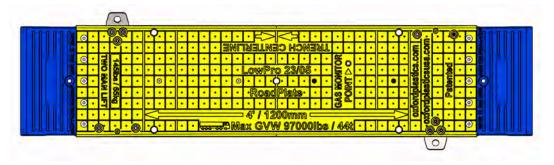


Close up of crack



INSPECTION SAFETY CHECKLIST

LowP	LowPro 23/05 Road Plate		No	If no:
1	1 Is the underside of the yellow section flat?			Do not use product.
2	Is the top of the yellow part free from cracks?			Do not use product.
3	Is the underside of the yellow part free from cracks?			Do not use product.
4	Are all bolts on top surface tight?			Tighten bolts.
5	Are all bolts on underside tight?			Tighten bolts.
6	Are all bolts in good condition?			Order replacement bolts
7	Is the top surface of the product clean?			Brush product clean.
8	Are the drop pins free of damage?			Order replacement drop pins
9	Are the Drop pins dropping down freely under gravity?			Check for debris that may prevent drop pins moving.



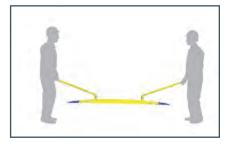
INSTALLATION AND SAFE HANDLING

Follow the process below for safe and effective installations

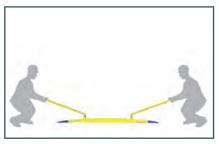
Risk assessments should be carried out to ensure the usage is suitable for the scenario



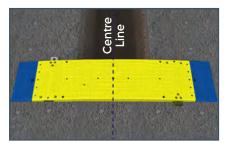
Ensure trench width less than 1200mm / 4'. Assess Trench stability prior to install



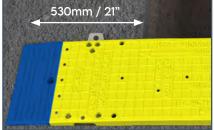
Two man lift at all times. Use the EasiLift Handles, insert into the holes at each end of the inner pieces.



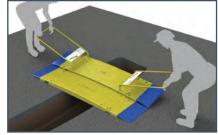
Bend at the knees in line with best practise.



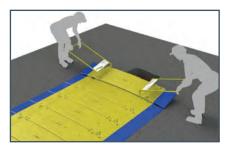
Position the first Inner Piece, using the centreline as a guide.



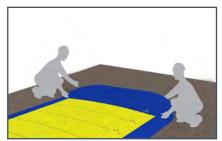
Check there is a minimum overlap of 530mm / 21". Do this for every piece..



Move the next piece so that the connectors fit into the slots. When engaged, gently lower the



Repeat until the entire trench is covered with Inner Pieces.



If required - Connect the End Piece. It is light enough to be installed without the EasiLift handles



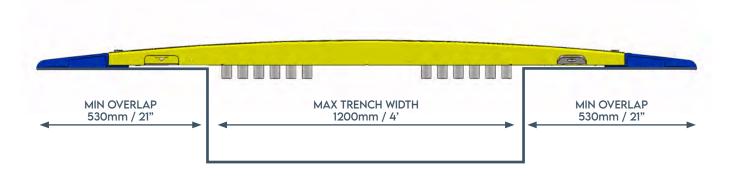
The End Piece is not load bearing and must be entirely on solid ground

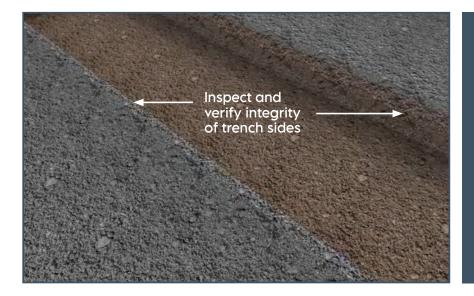
Road Plates are designed for vehicles to travel across in a straight line. In situations where traffic will be turning on the plates, plates should be securely bolted down.

OVERLAP AND SOIL CONDITIONS

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Ensure the product is centred on the trench, with a minimum overlap as shown below.





SOIL CONDITIONS

The soil or other substrates at the trench edges must be capable of supporting the maximum weight of vehicle for the particular install.

Risk assessments must be carried out prior to installation.

The LowPro 23/05 Road Plate is not suited for use if there is no trench.



ANCHORING

When a site is unattended it is recommended that each section is anchored securely to the road surface through the hole in the LowPro Edge.

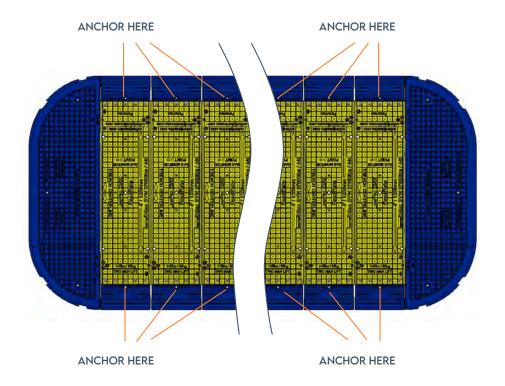
An M16 x 150mm / 5/8" x 6' Masonry Anchor Bolt is typically used.

The installers must ensure the fixing used is suitable for the substrate conditions. Risk assessments must be carried out prior to installation.

This set-up is also recommended at installations where traffic speeds exceed 30mph / 48kph.







ADDITIONAL SECURITY

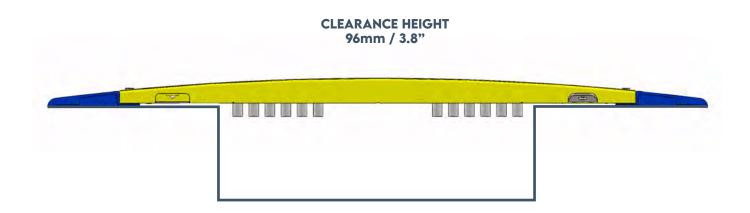
Drop pins deploy automatically under gravity as an additional safety measure.

This does not replace the need to anchor down.

FOR TRENCH SPANS FROM 400mm / 16" to 1200mm / 4'



SAFE SPEEDS AND CLEARANCE HEIGHT



SAFE SPEEDS

The product is designed for use in urban areas, for a maximum carriageway speed of

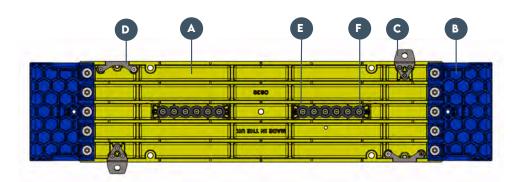
30mph / 48kph

Where traffic speeds exceed 30 mph / 48kph it is recommended to additionally bolt as per reccomendations on the Anchoring page.



REPLACEMENT PARTS AND TRACING

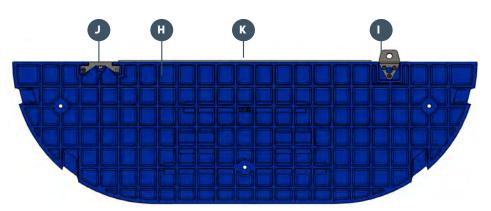
Parts are bolted together, enabling elements to be replaced easily in the unlikely event of damage



TRACING

Products have a waterproof label with a unique bar code and ID number, enabling tracing to the batch and date of manufacture.

INNER PIECE	Part Name	Product Code
A	Main Body	O839
В	LowPro Edge	0719
С	Male Connector Plate	0724
D	Female Connector Plate	0724
Е	Drop Pin Tray	O811
F	Drop Pins	O831

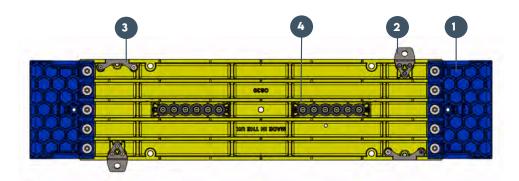


END PIECE	Part Name	Product Code
G	Main Body	0726
Н	Male Connector Plate	0724
I	Female Connector Plate	0724



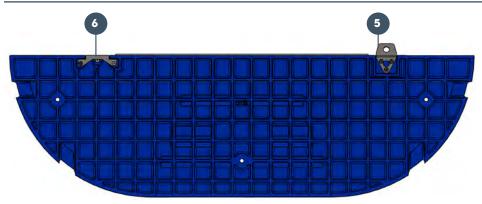
EASILIFT HANDLE Product Code O730

REPLACEMENT FIXINGS



All fixings Stainless Steel

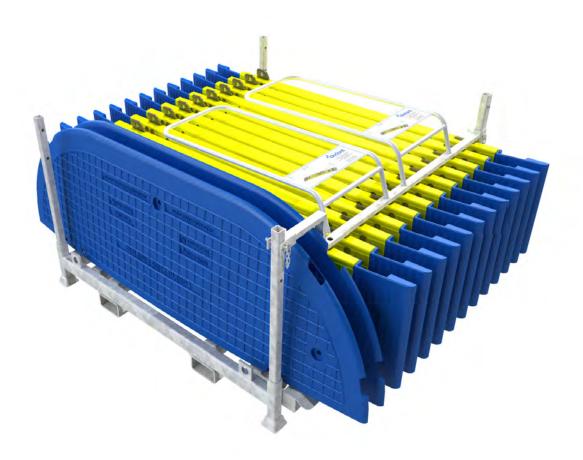
	Fixings for	Metric	Imperial
1	LowPro Edge	TEN M8 CSNK MACHINE SCREW X 30 LNG TEN M8 WASHERS x 50 OD TEN M8 LOCK NUTS	TEN 5/16" CSNK MACHINE SCREW X 1.1/4" LNG TEN 5/16" WASHERS x 2" OD TEN 5/16" LOCK NUTS
2	Male Connector Plate	SIX M8 CSNK SOC HD MACHINE SCREW X 50 LNG SIX M8 LOCK NUTS SIX M8 WASHERS x 24 OD	SIX 5/16" CSNK SOC HD MACHINE SCREW X 2" LNG SIX 5/16" LOCK NUTS SIX 5/16" WASHERS x 1" OD
3	Female Connector Plate	TWO M8 CSNK SOC HD MACHINE SCREW X 50 LNG TWO M8 CSNK SOC HD MACHINE SCREW X 65 LNG FOUR M8 LOCK NUTS FOUR M8 WASHERS X 24 OD TWO M10 HEX DOME NUT TWO M10 CSNK MACHINE SCREW X 30 LNG	TWO 5/16" CSNK SOC HD MACHINE SCREW X 2" LNG TWO 5/16" CSNK SOC HD MACHINE SCREW X 2.1/2" LNG FOUR 5/16" LOCK NUTS FOUR 5/16" WASHERS x 1" OD TWO 3/8" HEX DOME NUT TWO 3/8" CSNK MACHINE SCREW X 1.1/4" LNG
4	Drop Pin Tray	FOUR M8 CSNK MACHINE SCREW X 30 LNG FOUR M8 LOCK NUTS	FOUR 5/16" CSNK MACHINE SCREW X 1.1/4" LNG FOUR 5/16" LOCK NUTS



	Fixings for	Metric	Imperial
5	Male Connector Plate	SIX M8 CSNK SOC HD MACHINE SCREW X 50 LNG SIX M8 LOCK NUTS SIX M8 WASHERS x 24 OD	SIX 5/16" CSNK SOC HD MACHINE SCREW X 2" LNG SIX 5/16" LOCK NUTS SIX 5/16" WASHERS x 1" OD
6	Female Connector Plate	TWO M8 CSNK SOC HD MACHINE SCREW X 50 LNG TWO M8 CSNK SOC HD MACHINE SCREW X 65 LNG FOUR M8 LOCK NUTS FOUR M8 WASHERS x 24 OD TWO M10 HEX DOME NUT TWO M10 CSNK MACHINE SCREW X 30 LNG,	TWO 5/16" CSNK SOC HD MACHINE SCREW X 2" LNG TWO 5/16" CSNK SOC HD MACHINE SCREW X 2.1/2" LNG FOUR 5/16" LOCK NUTS FOUR 5/16" WASHERS x 1" OD TWO 3/8" HEX DOME NUT TWO 3/8" CSNK MACHINE SCREW X 1.1/4" LNG



STILLAGE



The LowPro 23/05 Road Plate can be supplied with a specially designed stillage.

The Stillage can carry 12 x Inner Pieces, 2 x End Pieces and 2 x EasiLift handles. It also includes a storage box for bolts and tools.

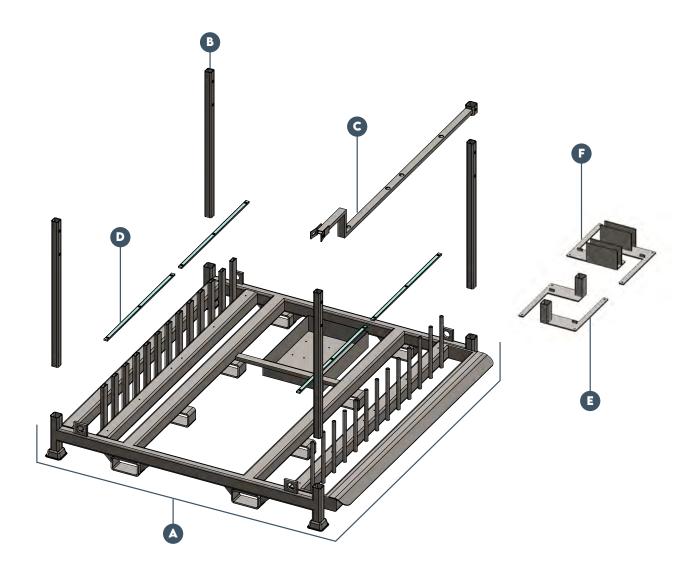
The stillage can be disassembled for compact storage, and can be lifted with a fork lift or with chains.

2305 STILLAGE

PRODUCT CODE	O731
WEIGHT	197kg / 434lb (Laden 910kg / 2006lb)
HEIGHT	908mm / 35.8"
LENGTH	1724mm / 68.0"
WIDTH	1779mm / 70.0"
MATERIAL	Mild steel
FINISH	Galvanised
CUSTOMISE	Custom sizes on request, subject to MOQ

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STILLAGE REPLACEMENT PARTS AND TRACING



STILLAGE	Part Name	Product Code
A	Stillage Full Assembly	O731
В	Stillage Vertical Spacers	O7311
С	Stillage Locking Bars	O7312
D	Stillage Nylon Bar Runner	O7313
E	Pedestrian Bridge Adaptor Box Section	O841
F	Pedestrian Bridge Adaptor Upright	O842



SUSTAINABILITY

Oxford Plastics are dedicated to sustainability. We build the circular economy into our products by designing them to be easy to use, long-lasting, repairable and recyclable.

The LowPro Road Plates, a direct replacement for steel plates are a much more sustainable solution when compared.



LowPro Road Plates reduce up to 78% of CO2e compared with heavy steel road plates*.

*Please refer to Oxford Plastics Carbon Footprint & Product Report for more information





ASSOCIATED PRODUCTS

When setting up a street works site, other Oxford Plastics solutions can be used to ensure compliance is achieved. Browse our Chapter 8 solutions; including advanced barrier systems, trench covers, road plates, wheelchair ramps and street works signs.



ADVANCED BARRIER SYSTEMS



PORTABLE
GATE BARRIERS



STREET WORKS SIGNS



WHEELCHAIR RAMPS



TRENCH COVERS



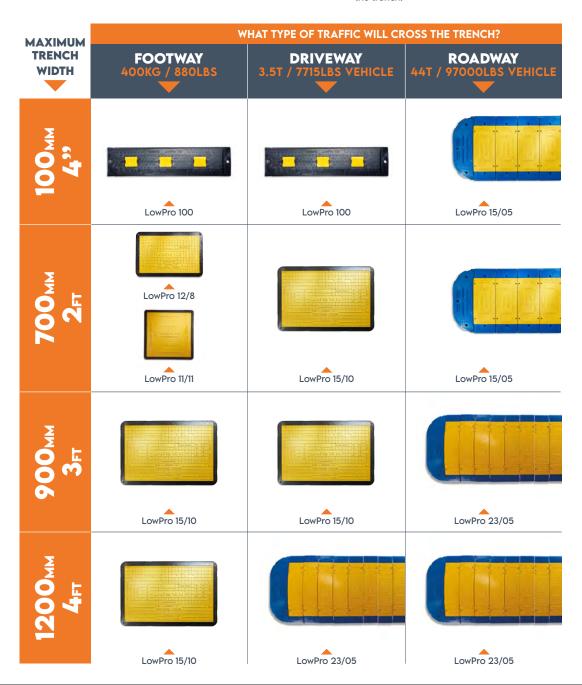
ROAD PLATES



TRENCH COVER GUIDE

COMPOSITE TRENCH COVERS CAN BE INSTALLED IN THE FOLLOWING SCENARIOS.

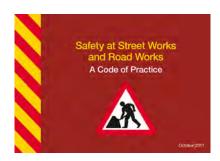
- A Site Safety Risk Assessment must be carried out before installation, only install on compacted surfaces such as concrete or asphalt. Always place the trench cover centrally over the excavation.
- In some instances, road plates and trench covers must be bolted for safety, refer to the installation guide for more details.
- Trench covers have a maximum width allowance.
- Trench covers can be linked together to safely cover any length of excavation.
- ▶ The LowPro range is HAUC Compliant.
- LowPro 15/05 and LowPro 23/05 are HS20-44 load rated.
- Trench covers must be installed centrally over the trench.

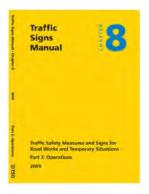




CODE COMPLIANCE









WHAT IS REGULATORY COMPLIANCE?

The Street Works manual, or red book tells contractors how to set up their street works site in a compliant manner. HAUC tell manufactures how to make compliant products. Oxford Plastics design composite trench covers that are 100% compliant with HAUC 2018/01 advice note - SPECIFICATION AND OPERATIONAL REQUIREMENTS FOR FOOTWAY BOARDS, DRIVEWAY BOARDS, FOOTWAY RAMPS AND ROAD PLATES, Department for Transport - Safety At Street Works And Road Works – A Code Of Practice, Department for Transport TAL 6/14 - Using road plates at road works.

The LowPro 23/05 Road Plate is compliant with the above regulations for streetworks use.

HISTORY OF USE

Our composite Road Plates and Trench Covers have been used extensively:







METROPOLITAN USERS

London New York Paris Munich Seoul Madrid San Francisco Tokyo Sydney

UTILITY USERS

Telecoms Electricity

Gas Water



























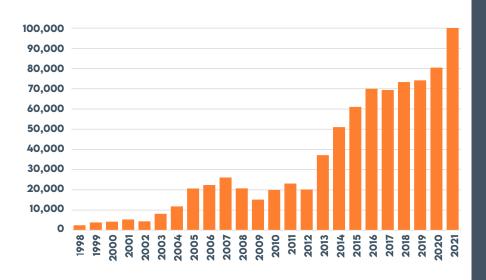






COMPOSITE ROAD PLATE & TRENCH COVER SALES

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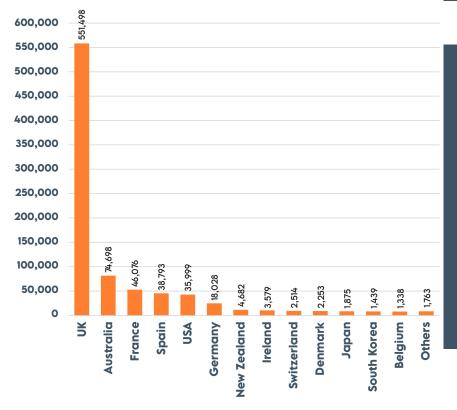
UNIT SALES

First concepts and products launched

1998

Worldwide sales since launch

+£54m



UNIT SALES BY COUNTRY

Countries using composite Road Plates and Trench Covers

42

Installations globally

+784k



CONTACT INFORMATION

UK & R.O.W

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sales@oxfordplastics.com Tel: +44(0)1608 678888

USA

Oxford Plastic Systems LLC 1011 Centre Rd, Suite 312, Wilmington DE 19805 USA

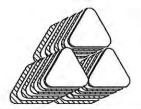
info@oxfordplasticsusa.com 1-800-567-9182



APPENDIX A

USA Engineering approval tabulated data See following pages





J.M. TURNER ENGINEERING, INC. **CONSULTING ENGINEERS**

CIVIL, STRUCTURAL, & CONSTRUCTION ENGINEERING

Hans Vermeulen

1325 College Avenue

TO:

Santa Rosa, CA 95404 * Phone (707) 528-4503 * Fax (707) 528-4505

David Sardinha/Peter Creighton

FROM:

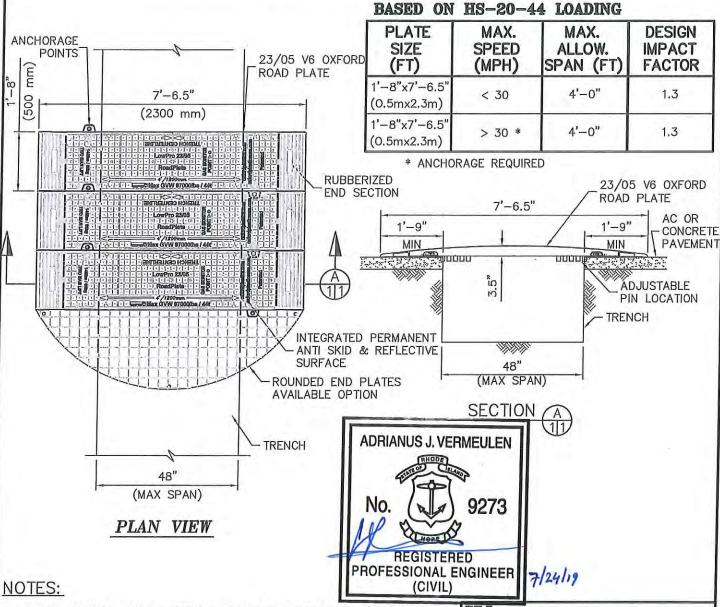
E-MAIL TRANSMITTAL COVER SHEET

COMPANY: PHONE: E-MAIL:	Oxford Plastics 401-497-0821 See Below	DATE:	7/24/2019	
		PAGES: RE:	09 including cover sheet 23/05 Manufacturers TD Shee	
L-IVI/AIL.	Oce Delow		25/05 Mandiacturers 1D Office	
		E-MAILED BY	Y: <u>Sarah R.</u> TIME: <u>10:00 am</u>	
MESSAG	E:			
David.sardin	ha@oxfordplasticsusa.com;	peter.creighton@oxfor	dplastics.com Job #17018-1	
Mailed copie	s are available upon request			
Thank you!				
			Revision Date: (11/1/97)	

OXFORD PLASTICS USA.

MANUFACTURERS TABULATED DATA SHEET

23/05 V6 OXFORD ROAD PLATE



- PLATE MATERIAL TO BE GLASS REINFORCED POLYESTER W/ STEEL REINFORCEMENT.
- PLATES ARE DESIGNED FOR HS-20-44 LOADING = 32,000 lb AXLE, 16,000 lb TIRE LOAD WITH IMPACT FACTOR OF 1.3.
- THE MAX SPAN IS MEASURED FROM ASPHALT OR CONCRETE EDGE TO ASPHALT OR CONCRETE EDGE.
- CHART IS BASED ON STABLE TRENCH. STABILITY TO BE DETERMINED BY COMPETENT PERSON OR PROFESSIONAL ENGINEER. SHORING MAYBE REQUIRED.
- 5. IF SPEED EXCEEDS 30 mph, PLATE MAY REQUIRE ANCHORAGE.
- 6. SEE MANUFACTURES INFO FOR USE AND GUIDANCE.
- 7. THE INSTALLATION OF THE OXFORD ROAD PLATES MUST NOT PRESENT A HAZARD TO CYCLISTS OR MOTOR CYCLES.

TITLE:
23/05 V6 OXFORD ROAD PLATE

OXFORD PLASTICS USA.

101 DEXTER ROAD PROVIDENCE, RI. 02914



J.M. TURNER ENGINEERING, INC. CONSULTING ENGINEERS

1325 COLLEGE AVE., SANTA ROSA, CA 95404 (707) 528-4503 FAX (707) 528-4505

DATE: RE 07/22/19

REVISED: FILE NO: 17018-1/P1

PLASTICS OXFORD

MANUFACTURERS TABULATED DATA SHEET

23/05 V6 OXFORD ROAD PLATE

ADDITIONAL LICENSES



















DRIANUS J. VERMEULEN

Vermeulen
12470

Certify that the first state of the stat

I hereby certify that this plan, specification, or report was prepared by me or under my direct Professional Engineer under the laws of the State of Mignesota.

TITLE:

23/05 V6 OXFORD ROAD PLATE

supervision and that I am a duly Licensed

OXFORD PLASTICS USA.

101 DEXTER ROAD PROVIDENCE, RI. 02914

REVISED:



Adrianus J. Vermeulen

Date 1/24/2019 License # 48822



J.M. TURNER ENGINEERING, INC. CONSULTING ENGINEERS

1325 COLLEGE AVE., SANTA ROSA, CA 95404 (707) 528-4503 FAX (707) 528-4505

DATE:

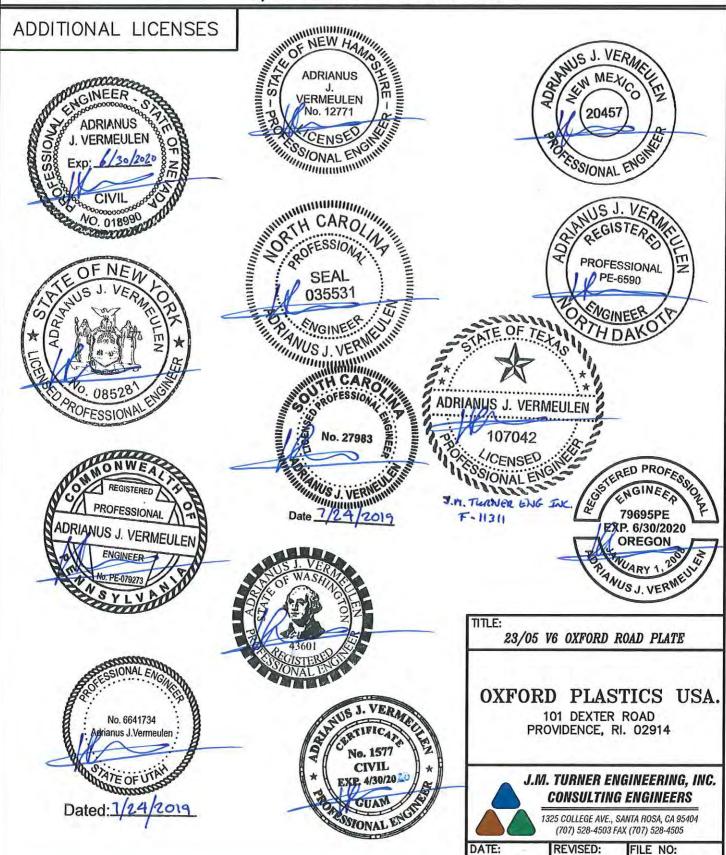
07/22/19

FILE NO: 17018-1/P2

OXFORD PLASTICS USA.

MANUFACTURERS TABULATED DATA SHEET

23/05 V6 OXFORD ROAD PLATE



07/22/19

17018-1/P3



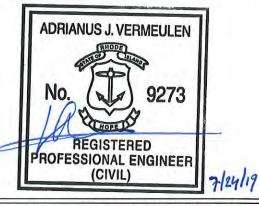
23/05 OXFORD ROAD PLATE TABULATED DATA

48" MAX CLEAR SPAN TRENCH OPENING

OXFORD PLASTICS USA 101 Dexter Road Providence, Rhode Island

Design of 23/05 V6 Oxford Road Plate is based on HS20-44 Traffic Loading with an Impact Factor of 1.3. The maximum allowable clear span = 48 inches (1200 mm). Road Plate size is 1'-8"

x 7'-6.5" (500 mm x 2300 mm)



DATE: 07/22/2019 DESIGN BY: A.J.V. SHEET NO: 1 of 5 JOB#: 17018-1

J.M. TURNER ENGINEERING, INC.



1325 COLLEGE AVENUE SANTA ROSA, CA 95404

PH#: (707) 528-4503 FAX#: (707) 528-4505

Oxford Plastics USA SUBJECT:

SHEET NO .:___

23/05 V6 Road Plate Tabulated Data

AJV DATE: 07/22/19

23/05 V6 OXFORD ROAD PLATE

ADJUSTABLE

AC OR

CONCRETE

PAVEMENT

Road Plate Calculations

1'-9"

MIN

חחחחח

CHKD BY:____ DATE: __

Check Worst Case Loading From HS-20-44:

Axle Load (kips):

 $P_{axle} := 32.0$

Tire Load (kips):

Ptire := 16.0

Impact Factor:

IF := 1.3

Design Load (kips):

 $P := P_{tire} \cdot IF$

P = 20.8

Width of Axle (ft):

D := 6

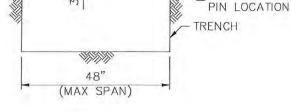
note that there will only

be one tire load per road plate

Span Length (ft):

L := 4.0

(1200mm)



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7'-6.5"

30.

23/5 Road Plate capacity based on HS20-44 Load Testing including 1.3 impact factor:

Ultimate testing Load (Metric Tonnes):

 $P_{tonnes} := 12.0$

Ultimate Load (kips):

 $P_{ult} := P_{tonnes} \cdot 2.2$

 $P_{ult} = 26.4$

Factor of Safety of Plate:

FS = 1.27

compared to HS20-44 loading ...OK

23/5 Road Plate deflection capacity based on Load Testing:

Maximum deflection at testing load (mm)

Mdfmax := 25

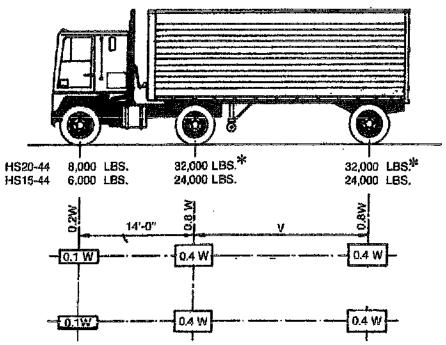
mm

Maximum deflection at breaking point (In)

Mdfl = 0.98

< 1.0 Inches Allowable .. OK





- W = COMBINED WEIGHT ON THE FIRST TWO AXLES WHICH IS THE SAME AS FOR THE CORRESPONDING H TRUCK.
- V = VARIABLE SPACING -- 14 FEET TO 30 FEET INCLUSIVE. SPACING TO BE USED IS THAT WHICH PRODUCES MAXIMUM STRESSES.

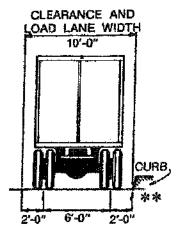


FIGURE 3.7.7A Standard HS Trucks

^{*} In the design of timber floors and orthotropic steel decks (excluding transverse beams) for H 20 loading, one axis load of 24,000 pounds or two axis loads of 16,000 pounds each spaced 4 feet apart may be used, whichever produces the greater stress, instead of the 32,000-pound axis shown.

^{**} For slab design, the center line of wheels shall be assumed to be 1 foot from face of curb. (See Article 3.24.2)