O

# LOWPRO 15/05 ROAD PLATE



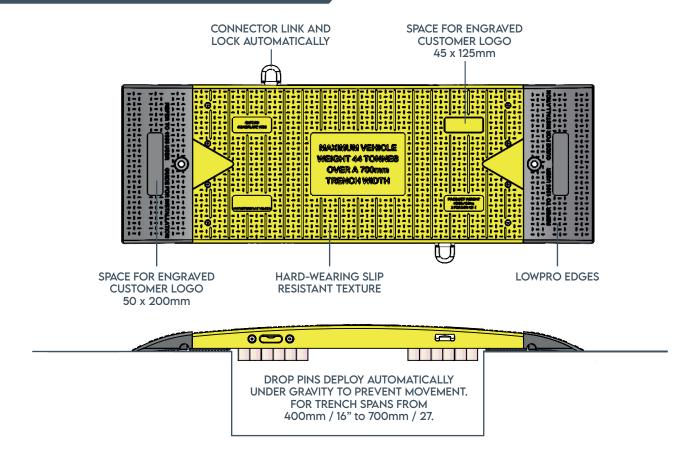


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### **FEATURES**



### **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 / 120°F to -30°C / -20°F. LowPro edges are more susceptible to damage in freezing temperatures.

### **QUICK INSTALLATION**

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

Quick to Install, with Inbuilt linking and locking system, no need to bolt all Road Plate sections to the ground.

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

#### **EXTRAS**

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

Can be customised with logo, MOQs apply.

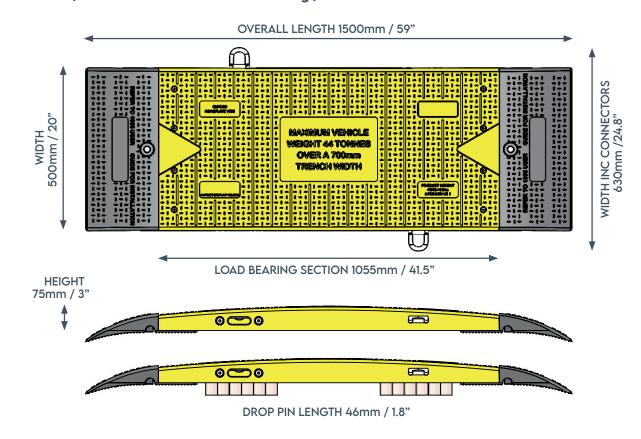
Spare parts are available to extend the life of your LowPro.

Non-metal construction reduces theft.

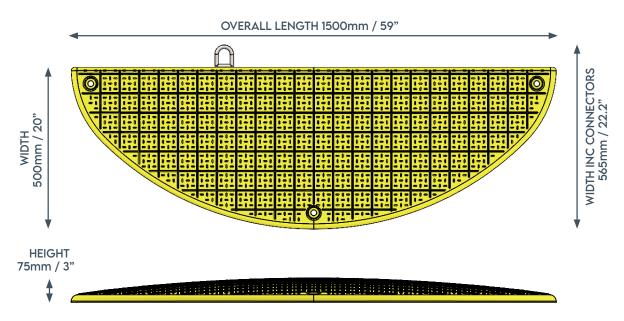


# DIMENSIONS AND WEIGHTS

#### LOWPRO 15/05 ROAD PLATE - INNER PIECE 42kg / 93lb



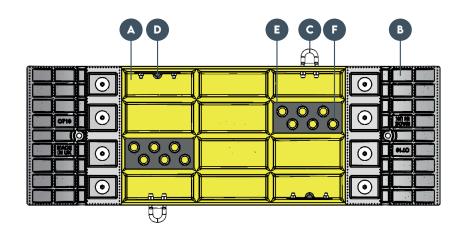
### LOWPRO 15/05 ROAD PLATE - END PIECE 23kg / 51lb



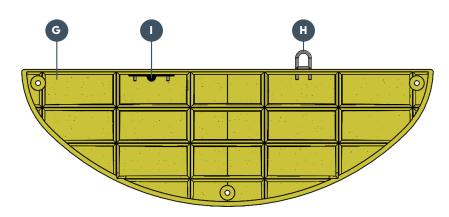
## MATERIAL COMPOSITION AND PRODUCT LIFE

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 / 120°F to -30°C / -20°F. LowPro edges are more susceptible to damage in freezing temperatures.

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         | Galvanised mild steel                                 |
| D           | Female Connector Plate | PP/PE   |
| E           | Drop Pin Tray          | PP/PE   |
| F           | Drop Pins              | Stainless Steel                                       |

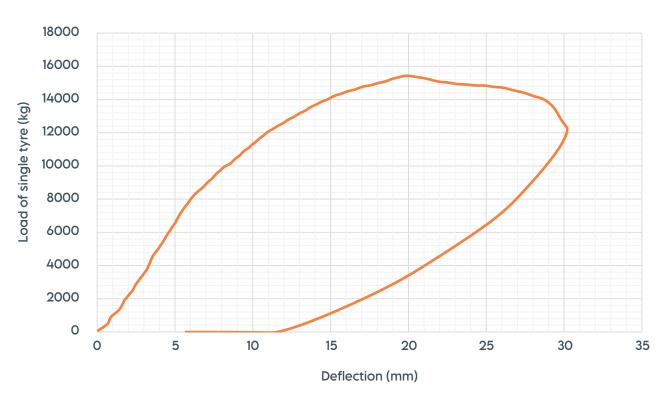


| END PIECE | Part Name              | Material  |
|-----------|------------------------|---|
| G         | Main Body              | Glass fibre reinforced polyester resin sheet moulding |
|           |                        | compound + Mild Steel encapsulated rebar grid         |
| Н         | Male Connector         | Galvanised mild steel                                 |
| I         | Female Connector Plate | PP/PE   |

5



## LOAD DEFLECTION DATA



Deflection at 6000kg / 13,228lb

Ultimate load at failure

4.6mm / 0.18"

15,400kg / 33,951lb

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.

Tab Data can be found in Appendix A.

Complies with HAUC 2018/01 Advice Note.



#### **PRODUCT RATING**

The product is rated for use over spans of maximum 700mm / 27" by vehicles with a GVW of up to

44t / 97,000lb

#### **TEST SPECIFICATION**

**Span** 700mm / 27"

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

**Load Location**Centre of product.



# MAXIMUM AXLE WEIGHTS

| TERRITORY   | Max single axle weight | Max single tyre weight |
|-------------|------------------------|------------------------|
| EU          | 11.Ot                  | 5.50t                  |
| Australia   | 8.2t                   | 4.1t                   |
| New Zealand | 10.0t                  | 5.Ot                   |
| 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.



### **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 2 directions in wet conditions, using a skid resistance tester using a CEN slider and 4'S' slider.



### **CLASSIFICATIONS**

**High Slip Potential** 

**Medium Slip Potential** 25-35

**Low Slip Potential** 

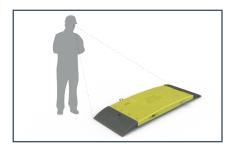
| CEN SLIDER TEST RESULTS - WET | Median Result | Classification     |
|-------------------------------|---------------|--------------------|
| Parallel to traffic           | 48            | LOW SLIP POTENTIAL |
| Perpendicular to traffic      | 41            | LOW SLIP POTENTIAL |

### 4'S' SLIDER TEST RESULTS - WET

| Parallel to traffic      | 61 | LOW SLIP POTENTIAL |
|--------------------------|----|--------------------|
| Perpendicular to traffic | 55 | 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.



Ensure bolts on top surface are tight.



Ensure bolts on underside are tight.



Clean product to remove debris, to maintain slip resistance properties.



Stack 20 LowPro 15/05 Inners or Ends onto a pallet for storage and transportation.

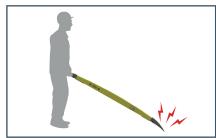
## Care for the product by following the below guidance:



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. 23/05 Road Plate shown as example.

Cracks or a bent product indicate it has been damaged through improper use. These products need to be disposed of.



Crack along rib



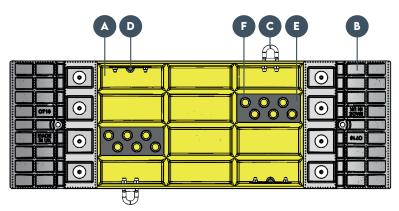
Close up of crack



The underside of the yellow section of the product is visibly bent.
It should be flat.

## REPLACEMENT PARTS AND TRACING

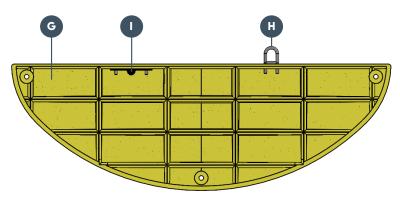
Parts are bolted together, enabling elements to be replaced easily in the unlikely event of damage.



### **TRACING**

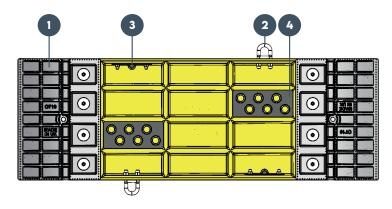
Products have a waterproof label with a unique bar code and ID number, enabling tracing to the batch and date of manufacture.

| INNER PIECE | Part Name              | Product Code     |
|-------------|------------------------|------------------|
| A           | Main Body              | O830             |
| В           | LowPro Edge            | 0710             |
| С           | Male Connector         | O703             |
| D           | Female Connector Plate | O808             |
| E           | Drop Pin Tray          | O807             |
| F           | Drop Pins              | O831, O832, O833 |



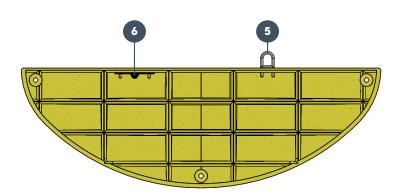
| END PIECE | Part Name              | Product Code |
|-----------|------------------------|--------------|
| G         | Main Body              | O814         |
| Н         | Male Connector         | O703         |
| I         | Female Connector Plate | O808         |

## REPLACEMENT PARTS AND TRACING



All fixings Stainless Steel

|   | Fixings for                  | Metric   | Imperial  |
|---|------------------------------|--|---|
| 1 | LowPro Edge                  | EIGHT M8 CSNK MACHINE SCREW x 40 LNG<br>EIGHT M8 WASHERS x 50 OD<br>EIGHT M8 LOCK NUTS | EIGHT 5/16" CSNK MACHINE SCREW X 1 1/2" LNG<br>EIGHT 5/16" WASHERS x 2" OD<br>EIGHT 5/16" LOCK NUTS |
| 2 | Male<br>Connector            | FOUR M14 LOCK NUTS<br>FOUR M14 WASHERS x 40 OD   | FOUR 9/16" LOCK NUTS<br>FOUR 9/16" WASHERS x 1 1/2" OD  |
| 3 | Female<br>Connector<br>Plate | FOUR M10 CSNK SOC HD MACHINE SCREW X<br>40 LNG<br>FOUR M10 LOCK NUTS                   | FOUR 3/8" CSNK SOC HD MACHINE SCREW X<br>11/2" LNG<br>FOUR 5/16" LOCK NUTS                          |
| 4 | Drop Pin Tray                | FOUR M5.5 HEX WASHER HEAD SELF-DRILLING<br>SCREW x 70 LNG WITH 16OD BONDED WASHER      | FOUR NO. 12 HEX WASHER HEAD SELF-DRILLING<br>SCREW x 2 3/4" LNG WITH 16OD BONDED<br>WASHER          |



|   | Fixings for | Metric                               | Imperial                              |
|---|-------------|--------------------------------------|---------------------------------------|
| 5 | Male        | FOUR M14 LOCK NUTS                   | FOUR 9/16" LOCK NUTS                  |
|   | Connector   | FOUR M14 WASHERS x 40 OD             | FOUR 9/16" WASHERS x 1 1/2" OD        |
| 6 | Female      | FOUR M10 CSNK SOC HD MACHINE SCREW X | FOUR 3/8" CSNK SOC HD MACHINE SCREW X |
|   | Connector   | 40 LNG                               | 11/2" LNG                             |
|   | Plate       | FOUR M10 LOCK NUTS                   | FOUR 5/16" LOCK NUTS                  |

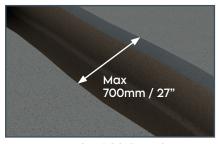


## INSTALLATION AND SAFE HANDLING

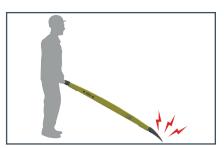
Follow the process below for safe and effective installations.

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

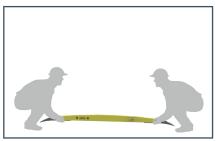
In the USA, Road plate installations must conform with Departments of Transport requirements in the local city. The minimum overlap can be as much as 15".



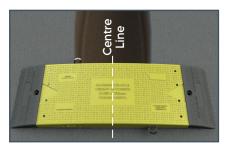
Ensure trench width less than 700mm / 27". Assess Trench stability prior to install.



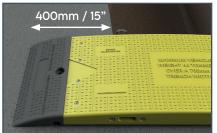
Two person lift at all times.



Bend at the knees in line with best practice.



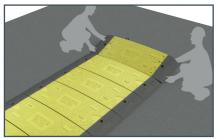
Position the first Inner Piece, using the centreline as a guide.



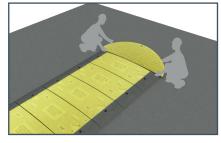
Check there is a minimum overlap of 400mm / 15". Do this for every piece.



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



Repeat until the entire trench is covered with Inner Pieces.



If required - Connect the End Piece.

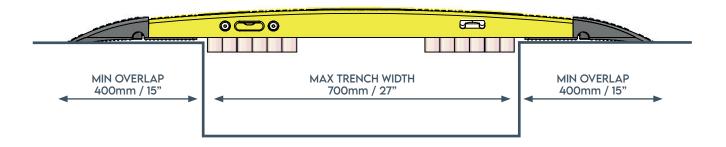


The End Piece is not load bearing and must be entirely on solid ground.



## OVERLAP AND SOIL CONDITIONS

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.

### **UNATTENDED SITES**

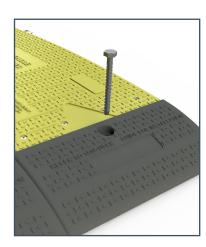
When a site is unattended it is recommended that the outer sections are bolted securely to the road surface through the hole in the LowPro Edge.

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

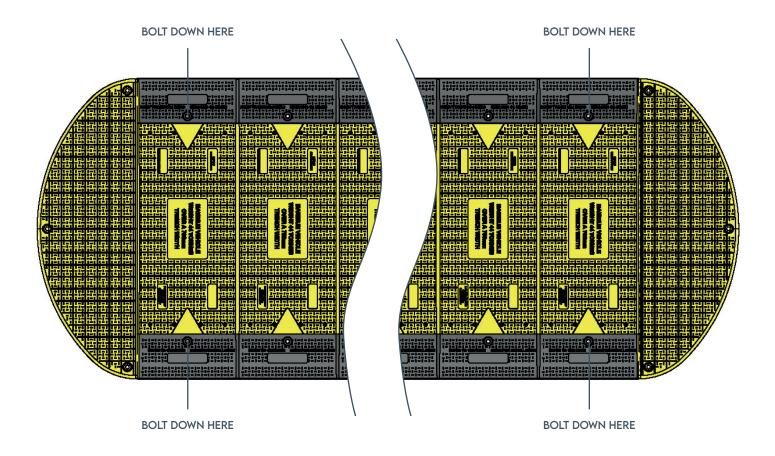
The installers must ensure the fixing used is suitable for the substrate conditions.

Risk Assessments must be carried out prior to installation.

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



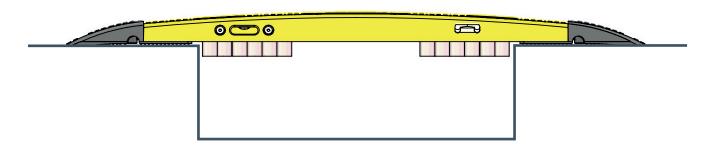






## SAFE SPEEDS AND CLEARANCE HEIGHT

### CLEARANCE HEIGHT 75mm / 3"



### **SAFE SPEEDS**

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

30mph / 48kph



### **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



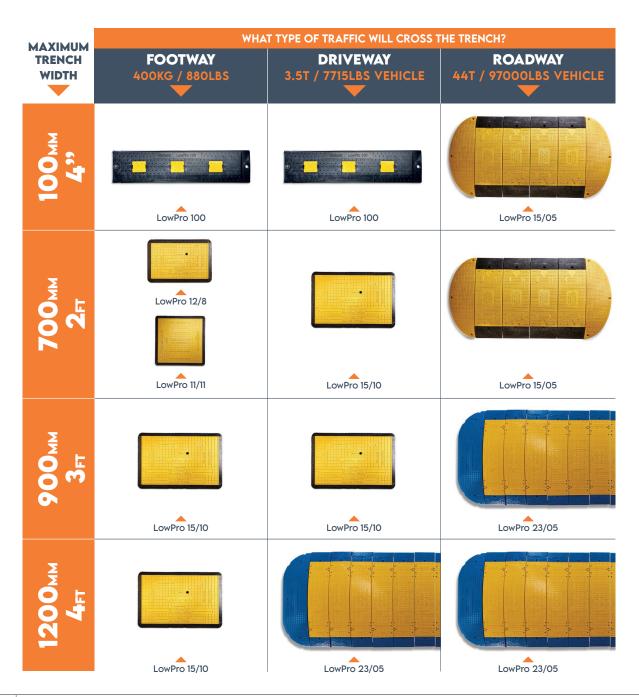
ROAD PLATES



## TRENCH COVER GUIDE

#### COMPOSITE TRENCH COVERS CAN BE INSTALLED IN THE FOLLOWING SCENARIOS.

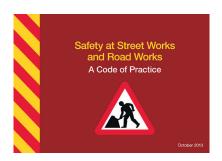
- A Site Safety Risk Assessment must be carried out before installation, only install on compacted surfaces such as concrete or asphalt. Always place the trench cover centrally over the excavation.
- In some instances, road plates and trench covers must be bolted for safety, refer to the installation 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.



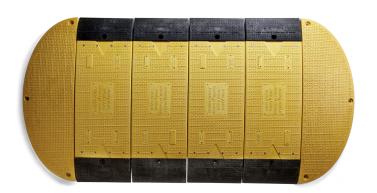


## **CODE COMPLIANCE**









#### 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 15/05 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** 







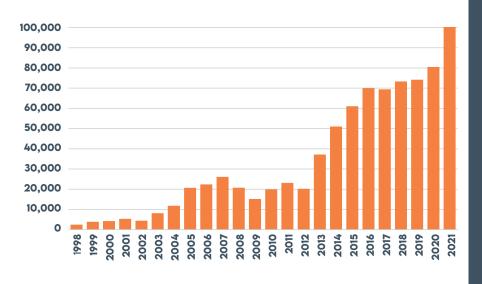








## **COMPOSITE ROAD PLATE** & TRENCH COVER SALES



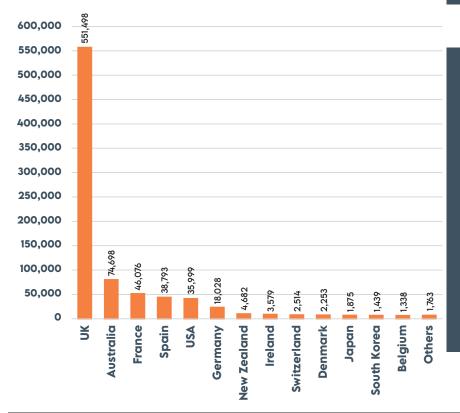
### **UNIT SALES**

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**

Oxford Plastic Systems Ltd Unit T2, Enstone Business Park Enstone, Chipping Norton Oxfordshire OX7 4NP United Kingdom

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

### **USA**

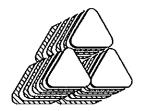
Oxford Plastic Systems LLC 1011 Centre Rd, Suite 312, Wilmington DE 19805 USA

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

1325 College Avenue

Santa Rosa, CA 95404 \*

## E-MAIL TRANSMITTAL COVER SHEET

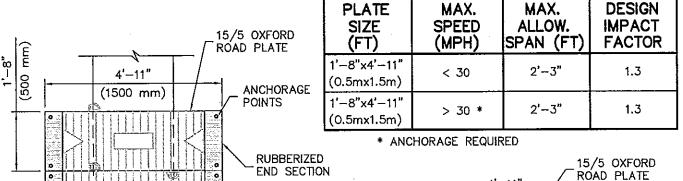
| 10:                       | David Sardinha                         | FROM:                                 | Hans Vermeulen           |
|---------------------------|--|---------------------------------------|--------------------------|
| COMPANY:                  | Oxford Plastics                        | DATE:                                 | 11/15/2013               |
| PHONE:                    | 401-497-0821                           | PAGES:                                | 05 including cover sheet |
| E-MAIL:                   | david.sardinha@oxfordplastics          | RE:                                   | 15/5 road plate          |
| CC                        |  |                                       |                          |
|                           |  |                                       |                          |
|                           |  | E-MAILED BY:                          | TIME: 12:00 pm           |
|                           |  |                                       |                          |
|                           |  |                                       |                          |
| <b>MESSAG</b>             | ¥F∙                                    |                                       |                          |
|                           |  | rood ploto                            |                          |
| See allache               | d tabulated data sheets for the 15/5   | road plate.                           |                          |
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### OXFORD PLASTICS USA.

### MANUFACTURERS TABULATED DATA SHEET

### 15/5 OXFORD ROAD PLATE

### BASED ON HS-20-44 LOADING



4'-11" (1500 mm) 1'-4" 1'-4" MIN MIN E AĎĴŰSTABLE PIN LOCATION 72 TRENCH INTEGRATED PERMANENT ANTI SKID & REFLECTIVE V)/}/} SURFACE 27" (MAX SPAN) ROUNDED END PLATES AVAILABLE OPTION

TRENCH

PLAN VIEW

27" (MAX SPAN)

₹. ·

### NOTES: PLATE MATERIAL TO BE GLASS REINFORCED POLYESTER W/ STEEL REINFORCEMENT.

- 2. PLATES ARE DESIGNED FOR HS-20-44 LOADING = 32,000 lb AXLE, 16,000 Ib TIRE LOAD WITH IMPACT FACTOR OF 1.3.
- THE MAX SPAN IS MEASURED FROM ASPHALT OR CONCRETE EDGE TO ASPHALT OR CONCRETE EDGE.
- 4. 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.
- THE INSTALLATION OF THE OXFORD ROAD PLATES MUST NOT PRESENT A HAZARD TO CYCLISTS OR MOTOR CYCLES.

TITLE:

9273

ADRIANUS J. VERMEULEN

REGISTERED

PROFESSIONAL ENGINEER (CIVIL)

No.

15/5 OXFORD ROAD PLATE

AC OR

SECTION

CONCRETE

**PAVEMENT** 

### 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

REVISED: FILE NO: DATE: 13741-1/P1 11/13/13

### OXFORD PLASTICS USA

MANUFACTURERS TABULATED DATA SHEET

15/5 OXFORD ROAD PLATE

### ADDITIONAL LICENSES



Expires 6/30/2016



PE-46305



IS J. VERM **LICENSED PROFESSIONAL ENGINEER** No. 13433



ADRIANIA ADRIANIA

YERMEULEN

CND

No. 48320

ROS GISTER

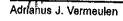


SSIONAL ENG 12917





I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.



\_\_ License # 48822



ADRIANUS J. VERMEULEN 19037

TITLE:

15/5 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: 11/13/13

REVISED: FILE NO:

13741-1/P2

### OXFORD PLASTICS

MANUFACTURERS TABULATED DATA SHEET

15/5 OXFORD ROAD PLATE

### ADDITIONAL LICENSES

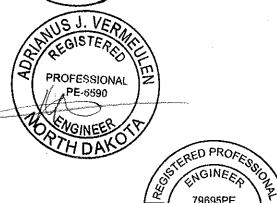


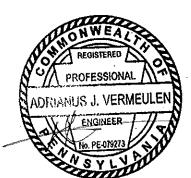




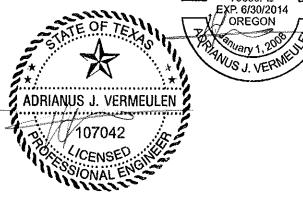














Dated:\_\_//



**EXPIRES 09-04-14** 



TITLE:

15/5 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

79695PE XP. 6/30/2014 OREGON

11/13/13

REVISED:

FILE NO: 13741-1/P3

|                | HANS         |                                       |
|----------------|--------------|---------------------------------------|
|                | VERMEULEN    |                                       |
| STATE          | LICENSE #    | EXP DATE                              |
| ALABAMA        |              |                                       |
| ALASKA         |              |                                       |
| ARIZONA        | 46429        | 6/30/2016                             |
| ARKANSAS       |              |                                       |
| CALIFORNIA     | 69082        | 6/30/2014                             |
| COLORADO       | PE-46305     | 10/31/2015                            |
| CONNECTICUT    | 26777        | 1/31/2014                             |
| DELAWARE       | 16282        | 6/30/2014                             |
| FLORIDA        | 10202        | 0.00.201.                             |
| GEORGIA        | PE035728     | 12/31/2014                            |
| HAWAII         | 13433        | 4/30/2014                             |
| IDAHO          | 12917        | 9/30/2014                             |
| ILLINOIS       |              |                                       |
| INDIANA        |              |                                       |
| IOWA           | 19037        | 12/31/2013                            |
| KANSAS         |              | · · · · · · · · · · · · · · · · · · · |
| KENTUCKY       |              |                                       |
| LOUISIANA      | 34978        | 3/31/2014                             |
| MAINE          | 12470        | 12/31/2013                            |
| MARYLAND       |              |                                       |
| MASSACHUSETTS  | 48320        | 6/30/2014                             |
| MICHIGAN       |              | 0,00,00                               |
| MINNESOTA      | 48822        | 6/30/2014                             |
| MISSISSIPPI    | 1            |                                       |
| MISSOURI       |              |                                       |
| MONTANA        |              | ····                                  |
| NEBRASKA       |              |                                       |
| NEVADA         | 18990        | 6/30/2014                             |
| NEW HAMPSHIRE  | 12771        | 9/30/2014                             |
| NEW JERSEY     | 1 1          | *******                               |
| NEW MEXICO     | 20457        | 12/31/2013                            |
| NEW YORK       | 085281-1     | 8/31/2016                             |
| NORTH CAROLINA | 35531        | 12/31/2013                            |
| NORTH DAKOTA   | PE-6590      | 12/31/2014                            |
| OHIO           | 1 3000       |                                       |
| OKLAHOMA       |              |                                       |
| OREGON         | 79695PE      | 6/30/2014                             |
| PENNSYLVANIA   | PE079273     | 9/30/2015                             |
| SOUTH CAROLINA | 27983        | 6/30/2014                             |
| SOUTH DAKOTA   |              |                                       |
| TENNESSEE      |              |                                       |
| TEXAS          | 107042       | 9/30/2014                             |
| UTAH           | 6641734-2202 | 3/31/2015                             |
| VERMONT        |              |                                       |
| VIRGINIA       | <del> </del> |                                       |
| WASHINGTON     | 43601        | 9/4/2014                              |
| WEST VIRGINIA  |              | +1 11 W W 1 1                         |
| WISCONSIN      | †            |                                       |
| WYOMING        | †            |                                       |
|                |              |                                       |

| GUAM             | CE #1577 | 4/30/2014 |
|------------------|----------|-----------|
| ALBERTA, CANADA  |          |           |
| BRITISH COLUMBIA |          |           |

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