



LOWPRO 12/8 TRENCH COVER



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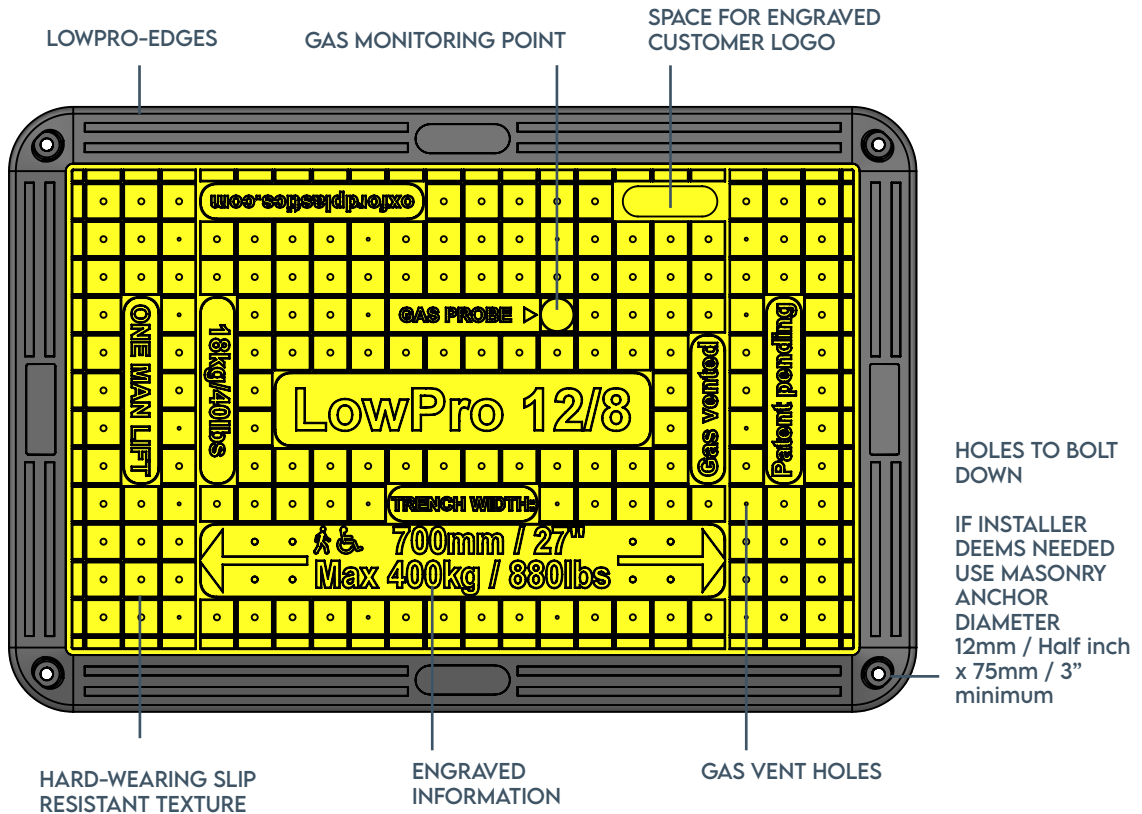
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FEATURES



ROBUST

Advanced composite technology construction, robust and durable.

Integral slip resistant texture.

LowPro-edge prevents damage to asphalt, reduces noise, and stops board sliding .

Proven to work in temperatures +50c to -30c.

Non-metal construction reduces theft.

SAFE & EASY TO USE

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

Quick to install.

Gas Monitoring point allows gas measurements to be taken without removing the trench cover.

Gas vent holes allow any gas build up to escape.

Can be bolted down.

EXTRAS

Can be customised with customer logos.

Infill pieces connect covers together to create a flat anti-trip platform.

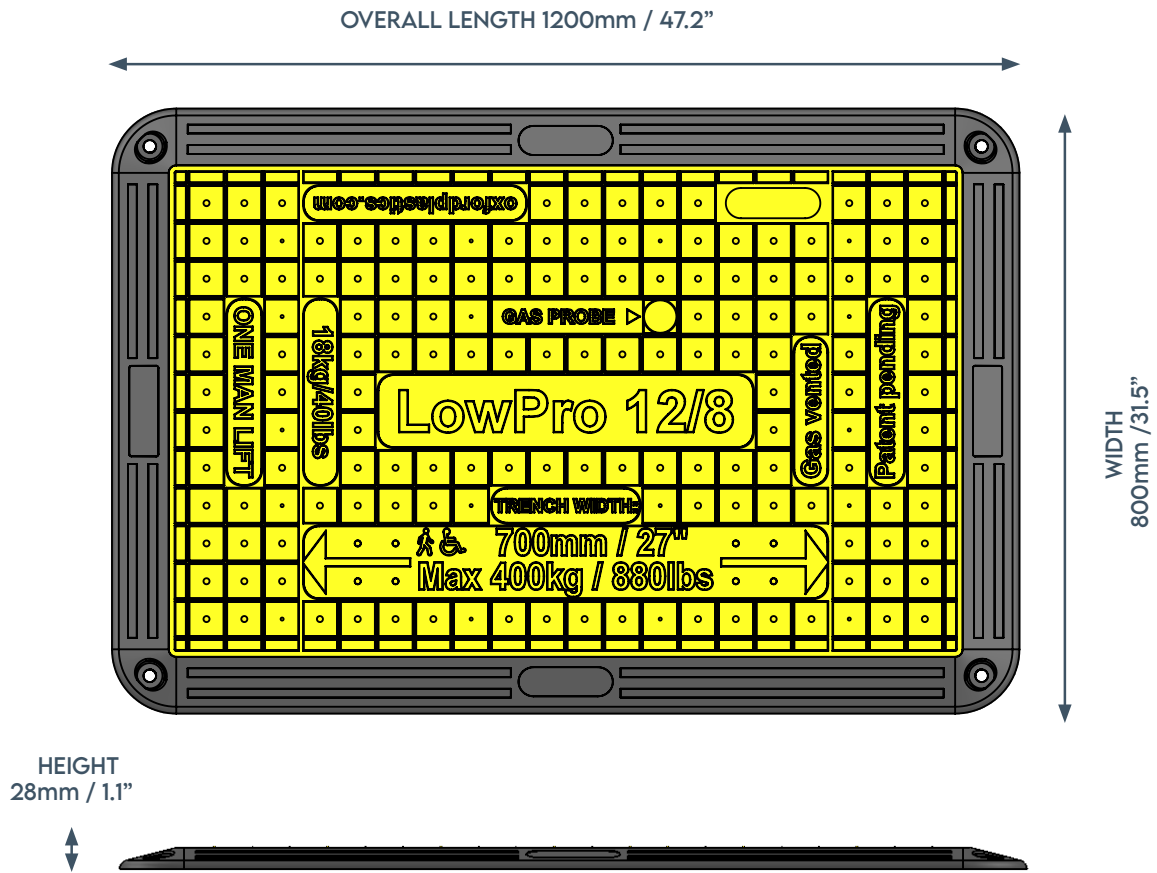
Linking plates can be supplied to link units for added security.





DIMENSIONS AND WEIGHTS

LOWPRO 12/8 TRENCH COVER 18Kg / 40lbs



Part Name

LowPro 12/8 Footway Board

Product Code

O362



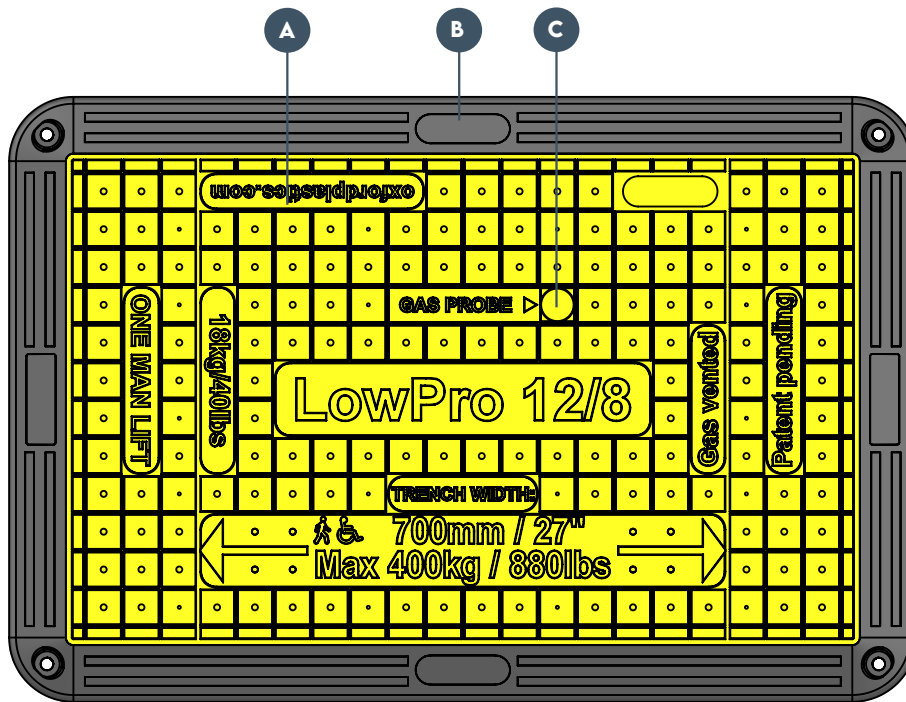
MATERIAL COMPOSITION AND PRODUCT LIFE

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 temperatures from +50c / +120f to -30c / -20f.

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

TRACING

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

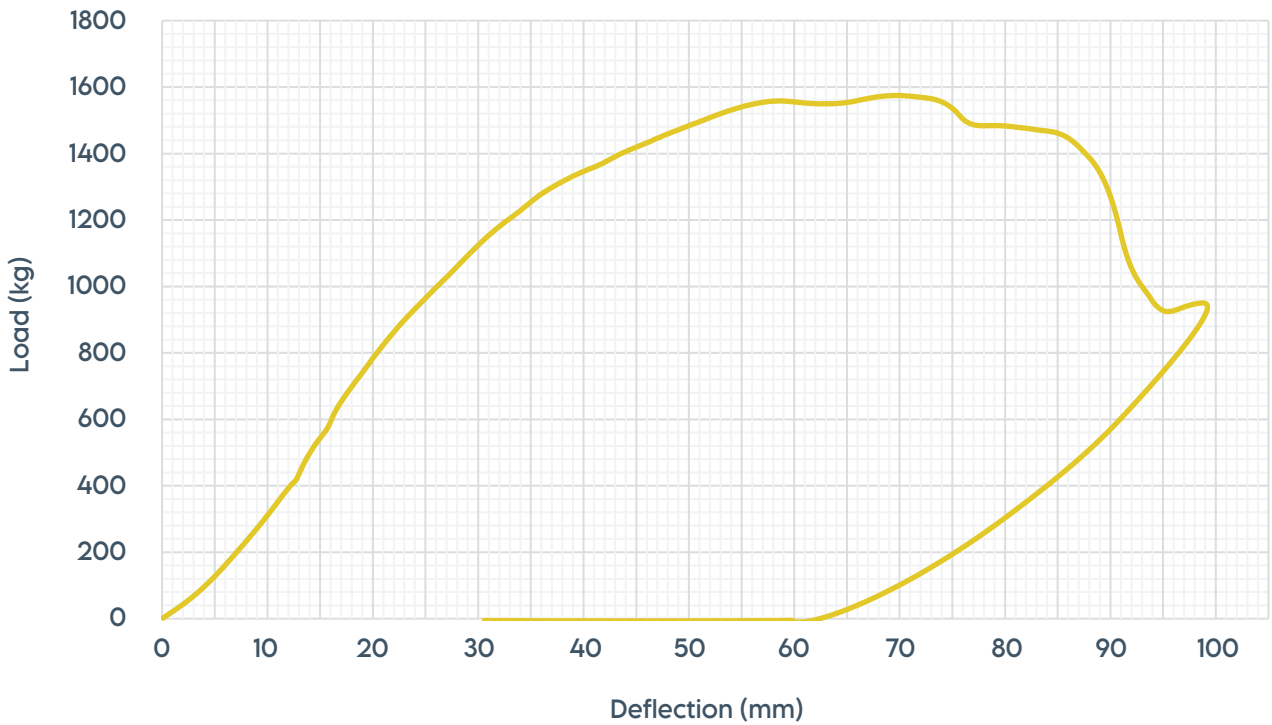


	Part Name	Material
A	Main Body	Glass fibre reinforced polyester resin sheet moulding compound + Mild Steel encapsulated rebar grid
B	LowPro-Edge	PVC
C	Gas Monitoring Bung	HDPE





LOAD DEFLECTION DATA



Deflection at 400kg / 880lb

12.5mm / 0.5"

Ultimate load at failure

1560kg / 3,439lb

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.

PRODUCT RATING

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

400kg / 880lb

TEST SPECIFICATION

Span
700mm / 27"

Load Footprint
250mm / 9.8" diameter pad with rubber base.

Load Location
Centre of product.





PEDESTRIAN ONLY USAGE

For scenarios where the product will only experience loads of up to 400Kg, the maximum span is 700mm.

The installer should carry out a risk assessment to ensure the edge of the trench is stable enough. For example, for excavations in concrete, asphalt or compacted soil.

The product must be positioned centrally on the trench.



PEDESTRIAN ONLY USE	Metric	Imperial
Max Span	700mm	27"
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
0-24

Medium Slip Potential
25-35

Low Slip Potential
36+

SLIDER 96 TEST RESULTS - DRY

	Median Result	Classification
Parallel to traffic	59	LOW SLIP POTENTIAL
45 degrees to traffic	57	LOW SLIP POTENTIAL
Perpendicular to traffic	65	LOW SLIP POTENTIAL

SLIDER 96 TEST RESULTS - WET

Parallel to traffic	31	MODERATE SLIP POTENTIAL
45 degrees to traffic	40	LOW SLIP POTENTIAL
Perpendicular to traffic	34	MODERATE SLIP POTENTIAL

SLIDER 55 TEST RESULTS - DRY

Parallel to traffic	86	LOW SLIP POTENTIAL
45 degrees to traffic	92	LOW SLIP POTENTIAL
Perpendicular to traffic	85	LOW SLIP POTENTIAL

SLIDER 55 TEST RESULTS - WET

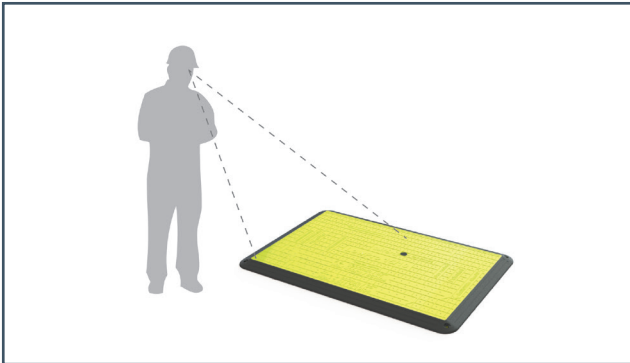
Parallel to traffic	51	LOW SLIP POTENTIAL
45 degrees to traffic	45	LOW SLIP POTENTIAL
Perpendicular to traffic	42	LOW SLIP POTENTIAL



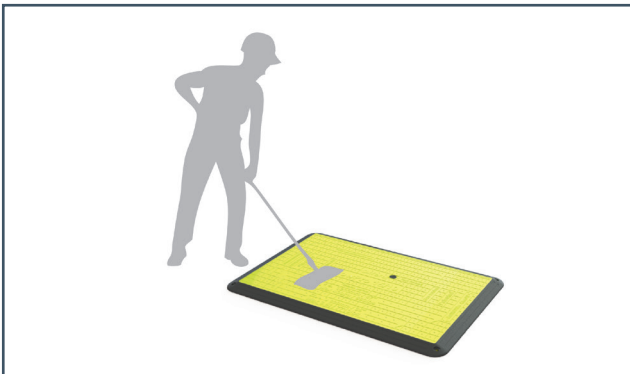


INSPECTION AND MAINTENANCE

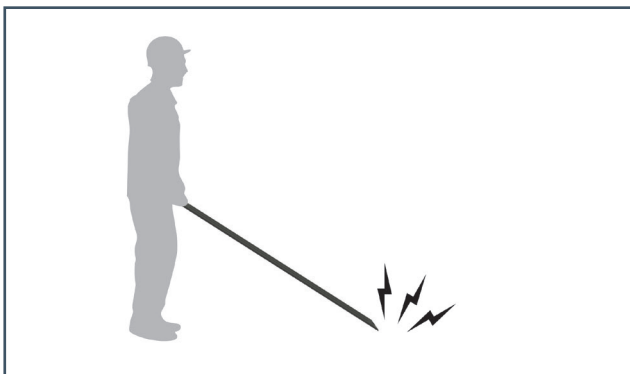
Care for the product by following the below guidance:



Inspect each product for signs of damage, between every installation.



Clean product between every installation to remove debris, and to maintain slip resistance properties.



Do not drop the product.
Do not lift or move with machinery.

SIGNS OF DAMAGE

Cracks in the yellow section indicate it has been damaged through improper use.

The product should lay flat on the ground. A visibly bent product also indicates it has been damaged through improper use.

These products need to be disposed of.

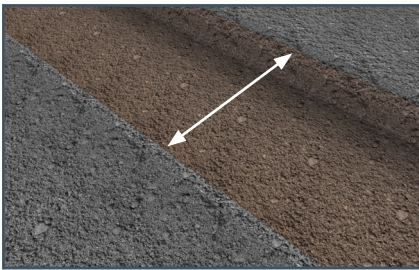




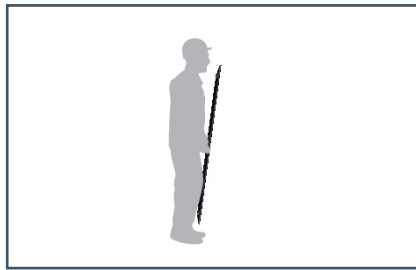
INSTALLATION AND SAFE HANDLING

Follow the process below for safe and effective installations.

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



Confirm trench widths suitable:
LONG SIDE 700mm.
SHORT SIDE 400mm.

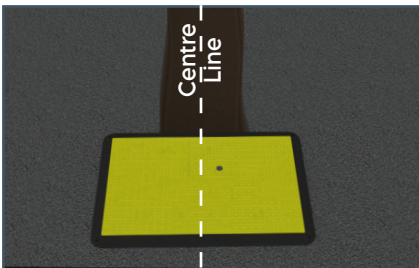


One person lift.

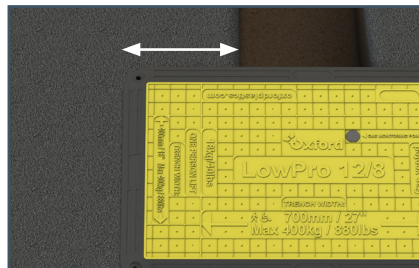


Bend at the knees in line with best practise.

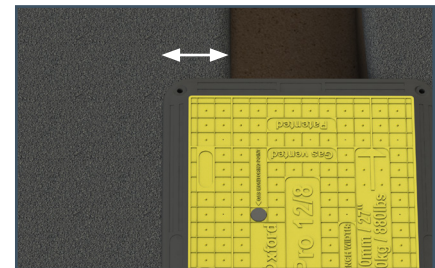
Assess Trench stability prior to install.



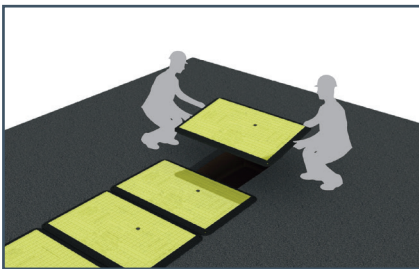
Position product centrally over trench..



250mm overlap horizontally as shown.



Rotated portrait, the maximum trench width is 400mm.
150mm overlap.
Do this for every piece.



Repeat until the entire trench is covered.

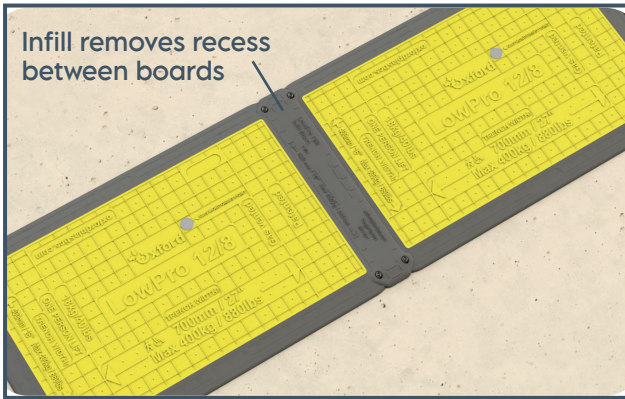




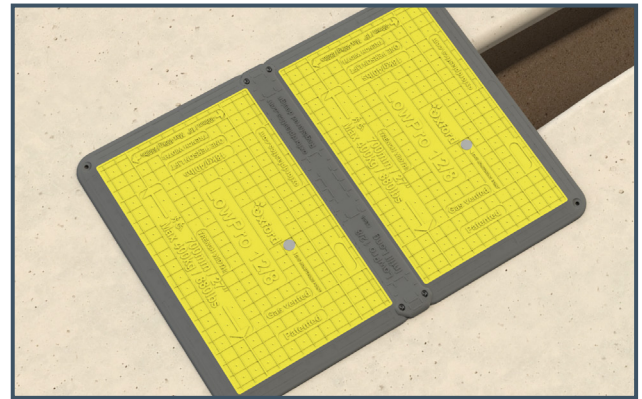
INFILLS & LINKING PLATES

Infills remove the recess between boards when 2 or more are used.

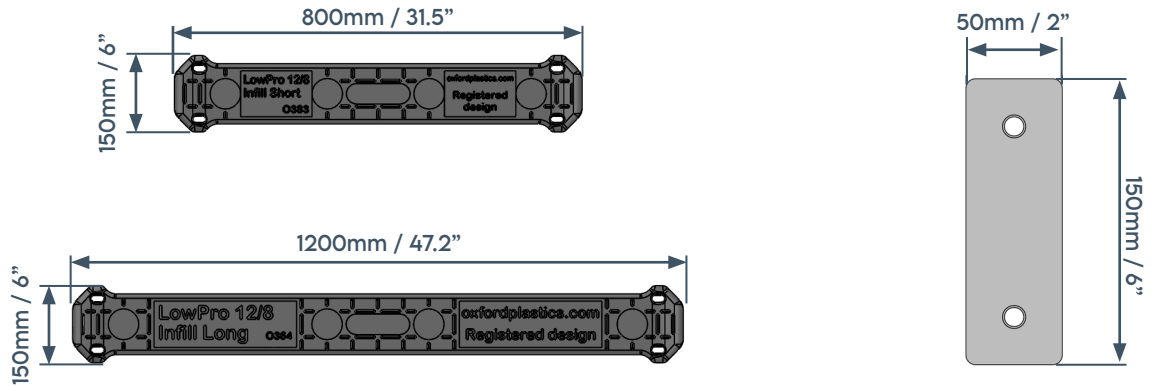
The linking plates connect the Infills, and also link each Board together for added safety.



The short Infill is suitable for narrow trenches, where LowPros are installed landscape.



The long Infill is suitable for wider trenches, where LowPros are installed portrait.



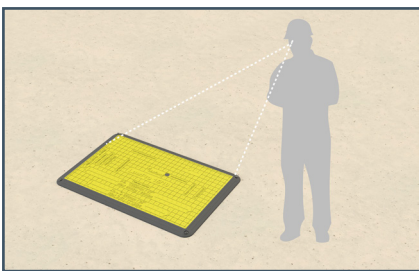
Part Name	Product Code	Material
Short Infill	O364	PVC
Long Infill	O383	PVC
Connector Plate	Supplied with the Infill	Zinc Plated Steel
Connector Plate Bolts	Supplied with the Infill	M10 x 20 hex head flanged bolt with zinc yellow coating



INFILL INSTALLATION

Follow the process below for safe and effective installations.

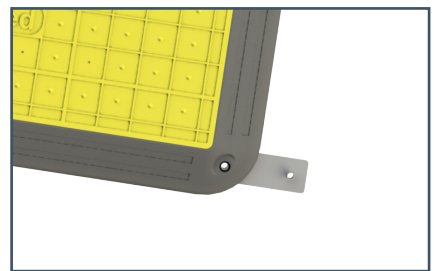
Risk assessments should be carried out to ensure the usage is suitable for the scenario.



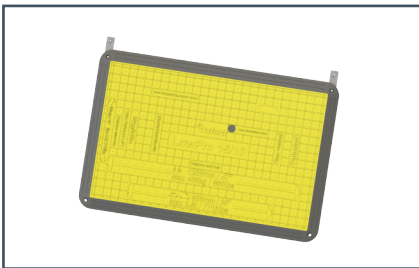
1. Assess the surrounding surface where the LowPro edges will be resting.



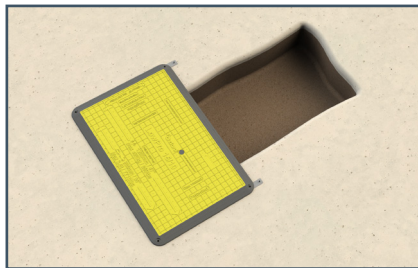
2. Unscrew the plate and bolts at each end of the Infill.



3. Insert the plate underneath the LowPro through the bolt hole.



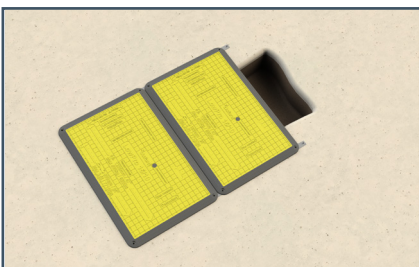
4. Insert the 2nd plate in the bolt hole on the long or short side.



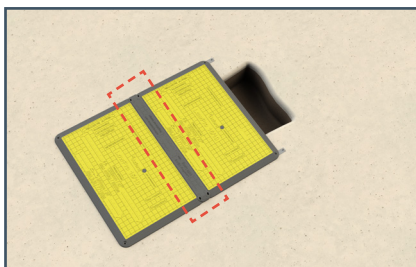
5. Place the LowPro with the plates centred over the width of the trench.



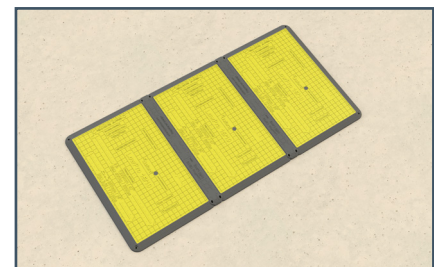
6. Place the next LowPro in line with first over the Infill plate.



7. Ensure the LowPro is sitting on the plate at both ends.



8. Place the Infill between the LowPros & secure with 2 bolts at either end.



9. Continue placing LowPros over the trench & attaching Infills until the trench is fully covered.





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



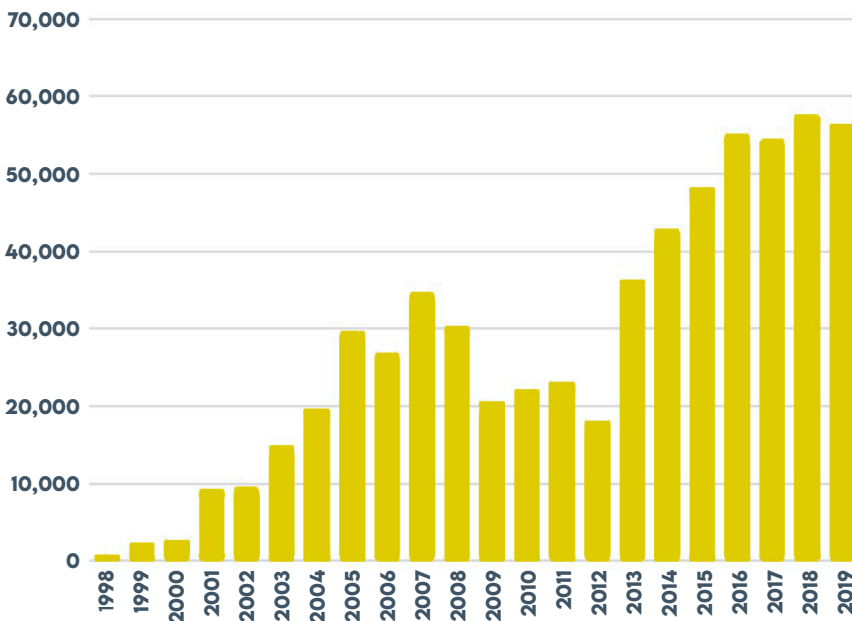
UTILITY USERS

- Gas
- Water
- Telecoms
- Electricity





COMPOSITE ROAD PLATE & TRENCH COVER SALES



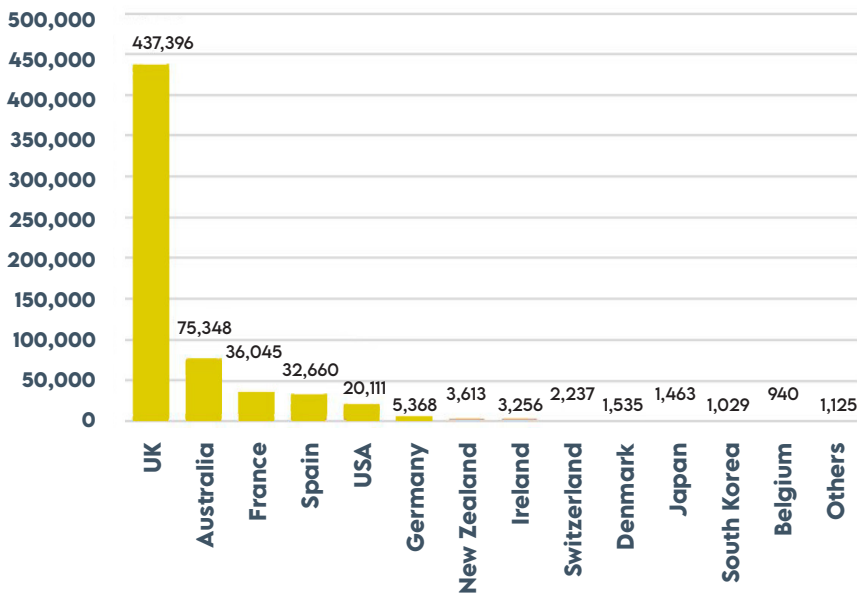
UNIT SALES

First concepts and products launched

1998

Worldwide sales since launch

+£32.8m



UNIT SALES BY COUNTRY

Countries using composite Road Plates and Trench Covers

42

Installations globally

+600k





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