

TERRA FIRMA PIT LIDS™

THE COMPOSITE LID COMPANY
ThruBeam E400 Square Cover



- **High structural performance**

Structurally and fatigue tested. Meets AS3996 D & E Class, AASHTO and European EN 124 D400 regulations.

- **Extended working life**

Composite covers continue to perform well after 20 years in service. Will not break or spin out. The torsional resistant frames eliminate many of the usual causes of wear with traditional covers.

- **Electrically non-conductive**

Will not conduct electricity, so stray voltage problems are negated.

- **Permanent anti-slip**

Exceeds 0.60 co-efficient of friction even when wet and will retain this anti-slip value throughout its working life unlike conventional metal covers.

- **Secure and lockable**

Additional security may be included through a bolting system that automatically disengages when the cover is removed and reengages when replaced. High security key option is available.

- **Sealing**

100% watertight/sand tight with a unique self-cleaning edge seal.

- **Client design service**

Terra Firma project managed bespoke design services will use our patented technology to design alternative size and colour solutions to meet customer requirements. Minimum order quantities and lead time applies.

- **Injury free removal**

Single person removal and replacement without the risk of back injury utilising Terra Firmas ergonomically designed lifting tool.

- **Reduced maintenance programmes**

Longevity, ease of access and superior performance reduces maintenance programs. Fitting a Terra Firma cover is the best 'whole life' choice.

- **No Residual value**

Reduced risk of theft.

- **Ventable**

Covers can be vented which helps prevent the build up of gases. Vents conform to ADA regulations.

- **Transparent to radio waves**

In pit radio transmitters are easily monitored through lids without the need to open pits.

- **Non-corrosive**

Will not corrode when in contact with other materials. Unaffected by fuels, sand, salt and all chemicals met in road environments.

Built on
ThruBeam®
TECHNOLOGY



Terra Firma ThruBeam E-Class

- High structural performance
- Extended working life
- Permanent anti-slip
- Secure and lockable
- Injury free removal
- Reduced maintenance programmes
- Watertight sealing/gaslight sealing
- Ventable
- Transparent to radio waves
- Non-corrosive
- Electrically non-conductive
- Bespoke design service

| Removal | | | Replacement | |
|--|--|---|---|---|
| <p>1 Insert removal tool and turn through 90°.</p>  | <p>2 Pull the footplate down and press until the gasket seal releases.</p>  | <p>3 Fold back the footplate, lean back slightly and pull cover towards you.</p> <p>Less than 25 KG</p>  | <p>4 Insert removal tool and push back the cover with the aid of your foot, until it engages with the frame/rim.</p>  | <p>5 Twist the removal tool thru 90° and remove. Stamp down on the cover to re-engage the sealing system.</p>  |

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Terra Firma ThruBeam ER-60
Round Cover with Key Housing - 28Kg



Terra Firma ThruBeam ER-76
Round Cover with Key Housing - 36Kg



Terra Firma ThruBeam ER-90
Round Cover with Key Housing - 46Kg

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ThruBeam
TECHNOLOGY



The Terra Firma ThruBeam E-Class

High structural performance

Structurally and fatigue tested. Meets AS3996 E400, AASHTO and European EN 124 D400 regulations.

Extended working life

Composite covers continue to perform well after 20 years in service. Will not break or spin out. The torsional resistant frames eliminate many of the usual causes of wear with traditional covers.

Permanent anti-slip

Exceeds 0.60 co-efficient of friction even when wet and will retain this anti-slip value throughout its working life.

Secure and lockable

Additional security may be included through a bolting system that automatically disengages when the cover is removed and reengages when replaced. High security key option is available.

Injury free removal

Single person removal and replacement without risk of injury. No need for any additional lifting equipment.

Reduced maintenance programmes

Longevity, ease of moving and superior performance reduces maintenance programs. Fitting a Terra Firma cover is the best 'whole life' choice.

Sealing (optional)

100% watertight/sand tight with an unique self cleaning edge seal.

Ventable

Covers can be vented which helps prevent the build up of explosive gases. Holes conform to ADA regulations.

Transparent to radio waves

Negates the lifting of covers and helps promote better signals being transmitted.

Non-corrosive

Will not corrode when in contact with other materials. Unaffected by sand, salt and all chemicals met in road environments.

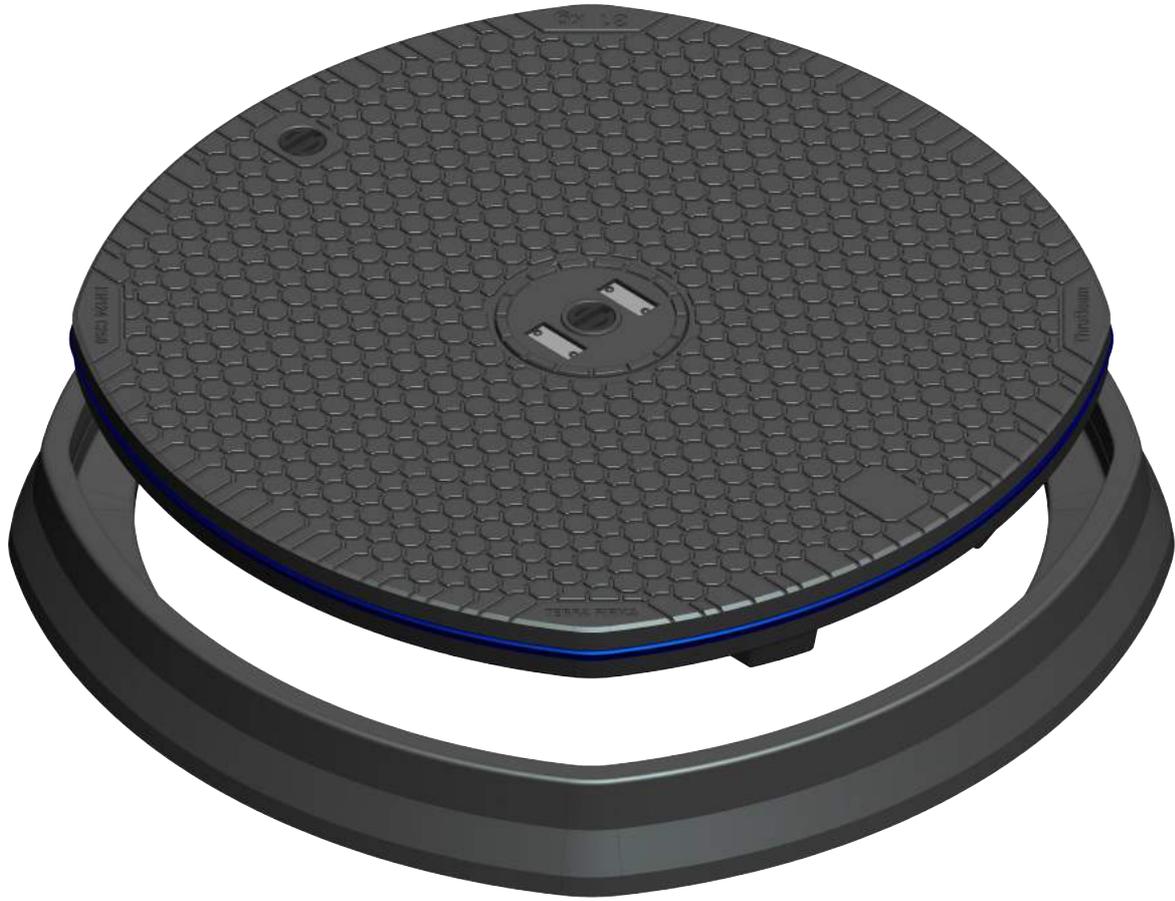
Electrically non-conductive

Will not conduct electricity, so stray voltage problems are negated.

Client design service

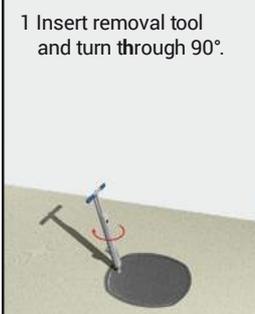
Terra Firma project managed bespoke design services will use our patented technology to design alternative size and shape solutions to meet customer requirements.

For full and comprehensive technical specifications please visit www.terrafirmapitlids.com and download the appropriate .pdf file.



Terra Firma ThruBeam D-Class

- High structural performance
- Extended working life
- Permanent anti-slip
- Secure and lockable
- Injury free removal
- Reduced maintenance programmes
- Watertight/gaslight sealing
- Ventable
- Transparent to radio waves
- Non-corrosive
- Electrically non-conductive
- Bespoke design service

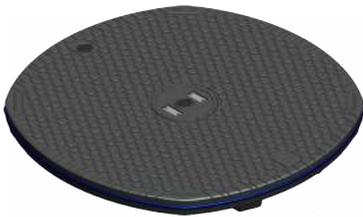
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TECHNOLOGY



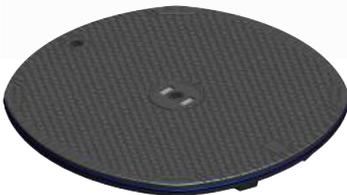
Terra Firma ThruBeam DR-90
Round Cover with Key Housing - 31Kg



Terra Firma ThruBeam DR-90-DC
Round Cover with Key Housing - 31Kg



Terra Firma ThruBeam DR-106
Round Cover with Key Housing - 40Kg



Terra Firma ThruBeam DR-106-DC
Round Cover with Key Housing - 40Kg



Vented Dip Cap
Also Available

Built on

ThruBeam
TECHNOLOGY



The Terra Firma ThruBeam D-Class

High structural performance

Structurally and fatigue tested. Meets AS3996 D210, AASHTO and European EN 124 C250 regulations.

Extended working life

Composite covers continue to perform well after 20 years in service. Will not break or spin out. The torsional resistant frames eliminate many of the usual causes of wear with traditional covers.

Permanent anti-slip

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