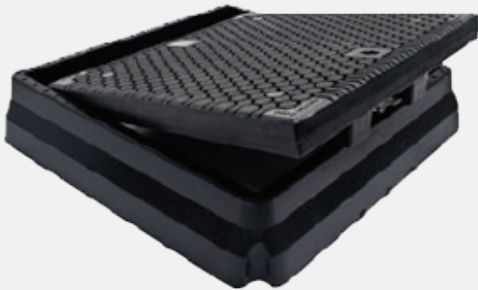




Terra Firma ThruBeam E400



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% water-tight and sand tight with a unique self-cleaning edge seal.

No Residual Value

Reduced risk of theft.

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 & 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.

Ventable

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

Transparent To Radio Waves

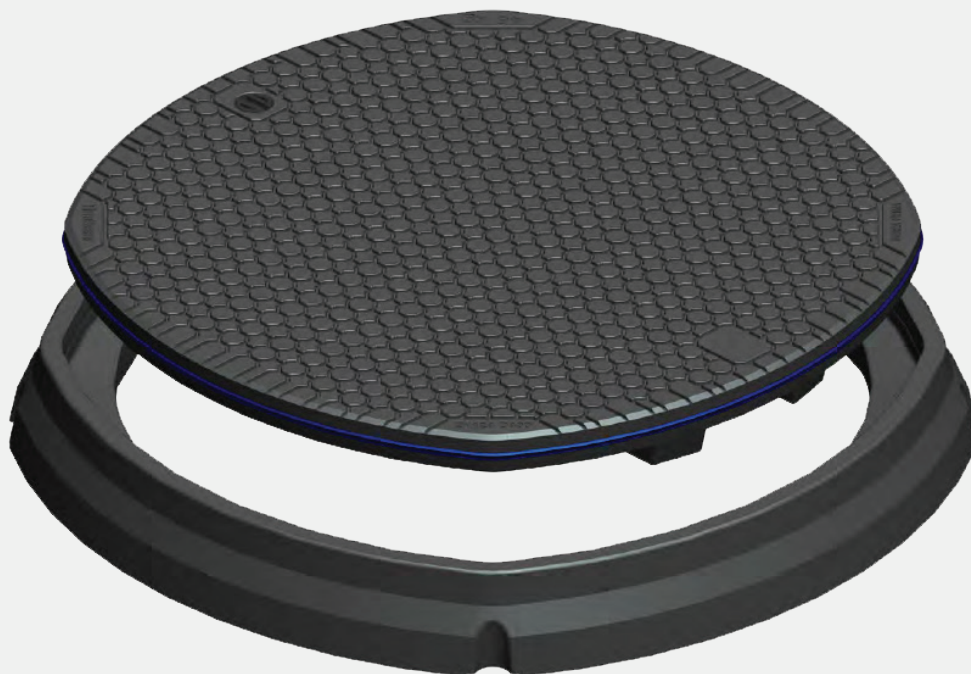
In pit radio transmitters are easily monitored through lids without the need to open pits.

Non-Corrosive

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

Built on
ThruBeam
TECHNOLOGY





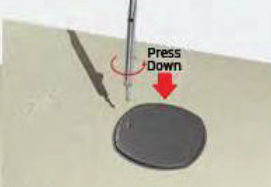
Terra Firma ThruBeam



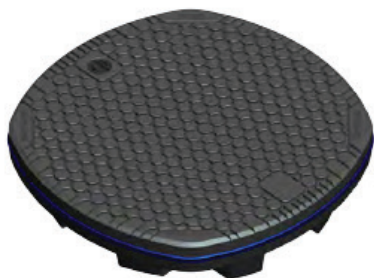
Built on
ThruBeam®
 TECHNOLOGY

ThruBeam Benefits

- High Structural Performance
- Extended Working Life
- Permanent Anti-Slip
- Secure And Lockable
- Injury-Free Removal
- Reduced Maintenance Programmes
- Watertight Sealing / Gastight Sealing
- Ventable
- Transparent To Radio Waves
- Non-Corrosive
- Electrically Non-Conductive
- Bespoke Design Service

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

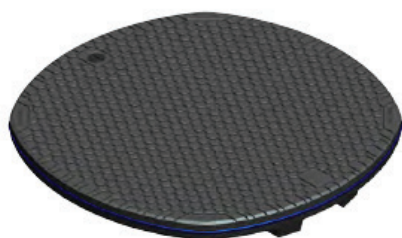
Terra Firma ThruBeam E-Class



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

Built on
ThruBeam®
TECHNOLOGY



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.

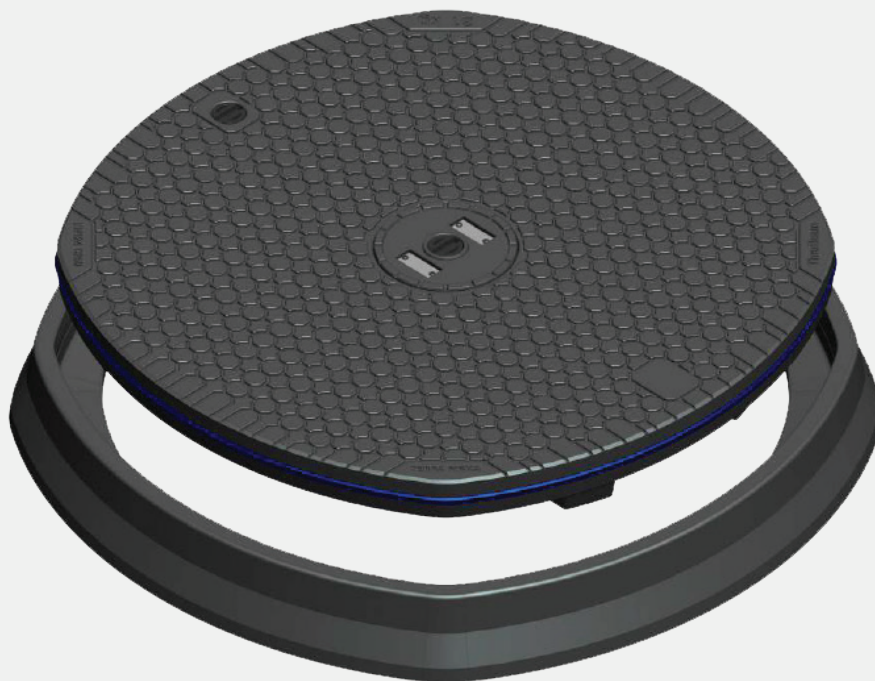
Electrically Non-Conductive

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 needs and requirements.

Terra Firma ThruBeam



Built on
ThruBeam®
 TECHNOLOGY

ThruBeam Benefits

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- Permanent Anti-Slip
- Secure And Lockable
- Injury-Free Removal
- Reduced Maintenance Programmes
- Watertight Sealing / Gastight Sealing
- Ventable
- Transparent To Radio Waves
- Non-Corrosive
- Electrically Non-Conductive
- Bespoke Design Service

Removal

1. Insert removal tool and turn through 90°.

2. Pull the foot plate down and press until the gasket seal releases.

3. Fold back the foot plate, lean back slightly and pull cover towards you.

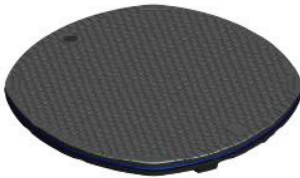
Replacement

4. Insert removal tool and push back the cover with the aid of your foot, until it engages with the frame/rim.

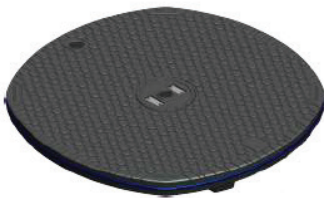
5. Twist the removal tool thru 90° and remove. Stamp down on the cover to re-engage the sealing system.



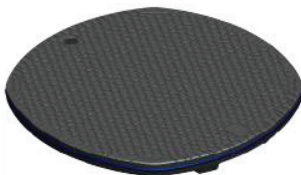
Terra Firma ThruBeam D-Class



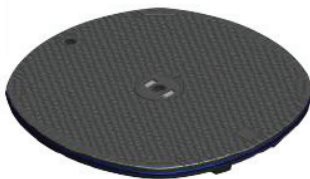
Terra Firma ThruBeam DR-90
Round Cover with Key Housing - 31kg



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



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

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

Secure And Lockable

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