

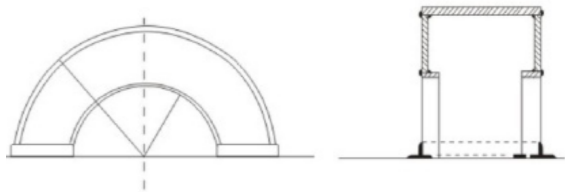


Buried Protective Cover for Rubber Expansion Joints

Buried-joint protection with required movement clearance | Project-specific engineering + fast custom production



Mingchao buried protective cover



Front / cross-section and side reference

Key Supply & Engineering Data

Purpose	Protects a buried rubber expansion joint from direct soil contact and external loading while preserving the joint's required movement space
Host Joint	Designed around the actual rubber joint geometry, face-to-face length, flange envelope and bolt projection
Movement Clearance	Internal clearance is set from the joint's required axial, lateral and angular movement; the cover must not obstruct movement
Burial Condition	Burial depth, soil condition, groundwater, surcharge and traffic/equipment loads are project inputs
Cover Geometry	Diameter, overall length and support height are determined from the host joint and site conditions
Construction	Two-piece semicircular enclosure allows installation around the joint and later inspection or replacement access
Material / Coating	Material, internal anti-rust treatment and external corrosion protection are confirmed by project requirement
Drainage / Access	Drainage, inspection access and permanent location marking can be incorporated where required
Engineering Review	Final dimensions and structural details are released only after project drawing/specification review

Custom Production

- Standardized cover concepts can be prepared quickly once the host-joint geometry is confirmed.
- Custom production can start the same day after drawing and specification confirmation.
- Custom details: cover D/L, support height, material, coating, bolts, drainage and access.



Project Engineering Input Reference

This protective cover is selected from the actual buried installation, not from a fixed DN-only dimension table.

Information Required for Design & Quotation

Host Joint Size	DN / NPS + product model	Defines the basic internal envelope
Host Joint Length	Face-to-face L	Sets the required cover length
Flange Envelope	Flange OD + bolt/nut projection	Prevents interference with cover walls
Required Movement	Axial / lateral / angular	Defines free internal movement clearance
Burial Depth	Depth from finished grade to device	Used for support and load review
Soil Condition	Soil type / compaction / bedding	Affects support and external-load design
Groundwater	Level / drainage condition	Affects corrosion protection and drainage
Surface Surcharge	Road / vehicle / storage / equipment load	Required for structural review
Other External Load	Construction / impact / local load if any	Included in project engineering review
Cover Geometry	Required diameter / length / support height	Finalized from host joint and site envelope
Material & Coating	Material / internal / external protection	Selected for buried environment and project specification
Fasteners	Bolt / nut material and arrangement	Defines assembly and future serviceability
Drainage & Access	Drainage point / inspection access	Supports buried maintenance and water management
Location Marker	Permanent surface marker if required	Helps future inspection and replacement
Drawing / Review	Layout drawing + site details + approval	Required before final production release

Installation Sequence

- 1

Prepare and level the buried foundation / bedding around the rubber-joint location.
- 2

Place the lower half of the protective cover in position and complete internal anti-rust treatment.
- 3

Position the rubber joint centrally, maintaining the required movement clearance on both sides.
- 4

Fit the upper half and tighten the fasteners; apply the specified external corrosion protection.
- 5

Backfill and compact to the civil design, then provide a permanent location mark for future inspection or replacement.

Engineering Note

The catalog defines the protection concept and installation method but does not publish one universal cover size or structural load rating. Final cover thickness, material, support arrangement, movement clearance and buried-load capacity must be confirmed for the actual site.

For detailed technical requirements, custom configurations or project questions, please contact us.