



Fall Protection

# Fall protection anchor for coal faces.

CE certified, manually adjustable portable fall protection anchor for coal face workers.

[www.3M.com/FallProtection](http://www.3M.com/FallProtection)

# A safe way to approach the coal face.

Various working scenarios related to quarrying require a safe way to approach the coalface where there is a major risk of falling:

- the quarry manager for inspection
- the topographer surveying the coal face
- the driller to set up and control
- the miner to load-out and inspect the mines
- the laboratory to analyse the cuttings from the drilling

To tackle all of the scenarios, 3M Fall Protection specifically developed the Quarry Fall Protection Anchor, a detachable, safe, robust, manually adjustable fall protection solution that does not require any specific means to set up and is CE certified.

The quarry anchor is made up of two detachable parts: the first is the base which is inserted in drilled holes of either 89 mm or 115 mm in diameter (drilled at the top of the coal face, in a zone with no risk of falling), the second is the telescopic anchor mast offering up to three raised anchor points. Three users can connect themselves to these anchor points with the help of a retractable fall arrester and harness.

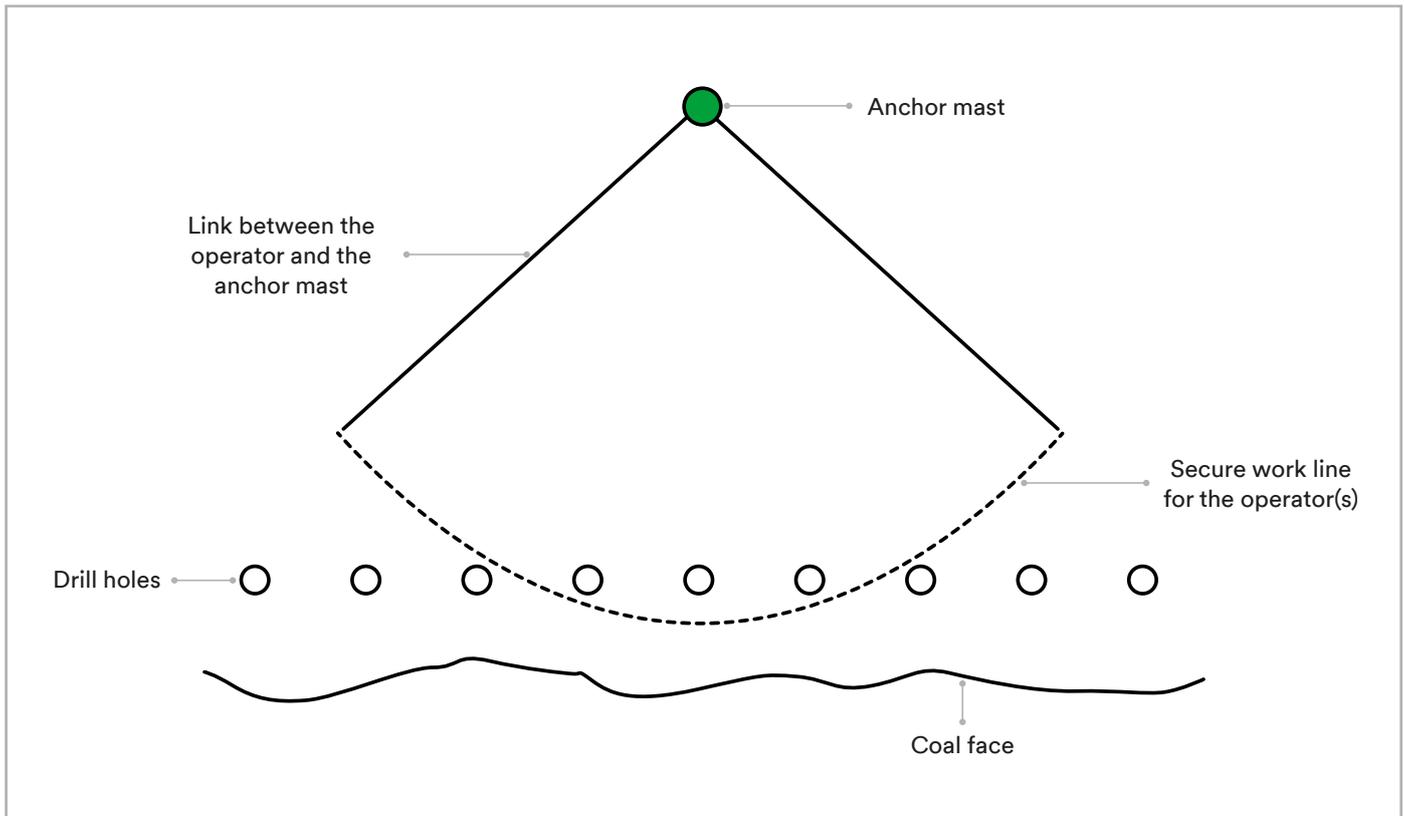
The cable deployed by the retractable fall arrester allows the user to approach the coal face securely, and in case of a fall (off the edge or a collapse of the coal face), to be braked and stopped safely.

The quarry anchor can be used as a temporary lifeline extremity anchor in order to secure a much larger area. With this configuration, two users can be secured simultaneously.



	Description	Technical Specifications	Photo
85600003	Base for 89 mm diameter holes	Galvanized steel base, 300 mm diameter flange, 76 mm diameter shaft, length 1,363 mm, weight 20 kg. This base is designed for drill holes of 89 mm. Certified CE EN 795 cl B	A
85600004	Base for 115 mm diameter holes	Galvanized steel base, 300 mm diameter flange, 101 mm diameter shaft, total length 1,363 mm, weight 23 kg. This base is designed for drill holes of 115 mm. Certified CE EN 795 cl B	B
8566691	Telescopic fall protection anchor mast	Telescopic fall protection mast to be pinned to the base of the quarry. Height when completely folded (lifeline configuration) 831 mm, height when completely extended 1,384 mm Weight: 17 kg. Allows up to 3 users to be attached simultaneously and can be used temporarily as the end of a life line. Certified CE EN 795 cl B	C
3590542	3M™ Protecta® Rebel™ Leading Edge Self-Retracting Lifeline	6 m long self-retracting device, 5.6 mm thick galvanized cable. Can be used in horizontal configuration. Integrated debounce function and reserve cable. Double swivel. Thermoplastic housing. Weight 5.6 kg. Certified CE EN360	D
3590545	3M™ DBI-SALA® Ultra-Lok™ Self Retracting Lifeline - Cable 12 m	12 m long self-retracting device, 5.6 mm thick galvanized cable. Can be used in a horizontal configuration. Double swivel. Thermoplastic housing. Weight 8.5 kg. Certified CE EN360	-
AB12433	3M™ Protecta® Flexa™ Harness - size medium	Weight: 1.48 kg. Certified CE EN361	-
7605061	3M™ DBI-SALA® EZ-Line™ Temporary Horizontal Lifeline	Self-retracting lifeline with a 6.25 mm thick galvanized cable. Weight: 11 kg Length: 16 m. Two users	E
AJ514R	Automatic locking carabiner	Automatic locking carabiner made of galvanised steel. 18 mm opening, resistance above 25 kN. Weight: 170 g	-
9509308	Storage Box	Carrying and storage aluminium box for 8560003 or 85600004. Can also be used to store all the other accessories except the 8566691. Internal wood wedges allow firm positioning of the elements. External dimensions: Length 1.6 m x Width 0.6 m x Height 0.5 m. 35 kg weight	F
9509309	Storage Box	Carrying and storage aluminium box for 8566691. Can also be used to store some small accessories. Internal wood wedges allow firm positioning of the elements. External dimensions: Length 0.95 m x Width 0.53 m x Height 0.43 m. 18 kg weight	G

## Use of a single anchor: securing an angular section:

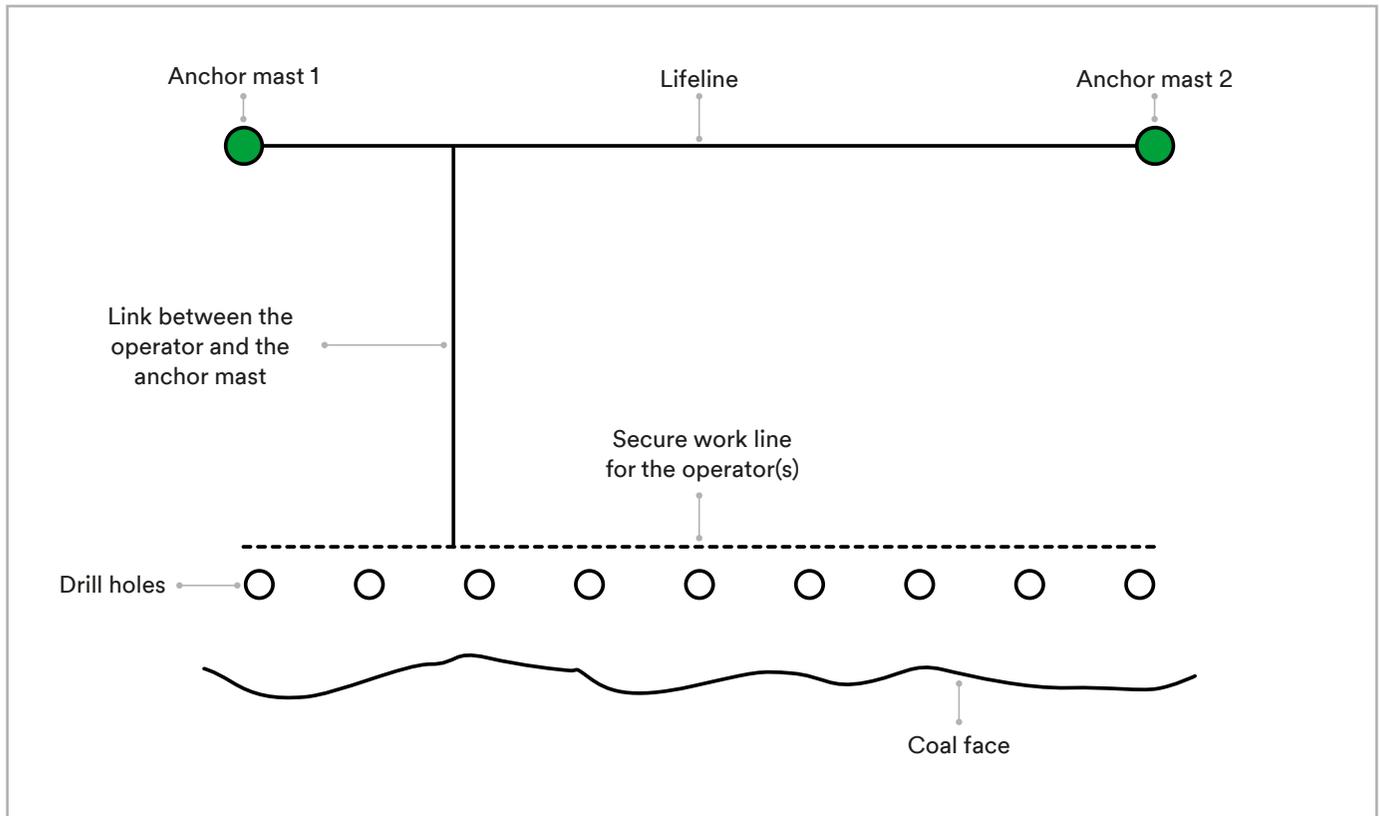


## Recommended Quarry Fall Protection Equipment:

- Either base 85600003 or 85600004 depending on the diameter of the bore hole
- One 3M™ Protecta® Rebel™ self-retracting lifeline per user (for example the 3590542 for 6 m)
- One fall protection mast 8566691 to be fixed to the base
- One harness per user
- Two auto-locking carabiners per user



## Use of two anchors and a lifeline: securing with a lifeline



### Recommended Equipment:

- Two bases of 85600003 or 85600004 depending on the diameter of the bore hole
- Two fall protection masts 8566691 to be fixed to each base 7605061
- One temporary 3M™ DBI-SALA® EZ-Line™ Temporary Horizontal cable lifeline
- One 3M™ Protecta® Rebel™ self-retracting lifeline per user (for example the 3590545 for 12 m)
- One harness per user
- Two self-locking carabiners per user



### Certifications:

The bases have been certified CE EN 795 cl B by APAVE, in conjunction with the fall protection mast and the lifeline.

The CE certificate numbers are N°0082/037/160/11/11/0499 and N°0082/037/160/11/11/0499 - Ext N°01/11/11.

This system was patented internationally.

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