SafetyToolbox Talk

BUILDING A ROCK PLATFORM AT THE FACE

It is common practice for hydraulic excavators to be used at the working face to dig the shot pile and load dumpers or mobile crushers.

Excavators need to be able to see clearly into the rear of dump trucks in order to load them safely and be able

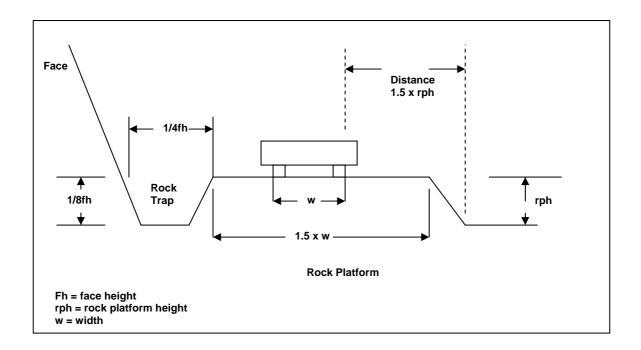


to reach the crest or the top of the face in order to dress down the crest as deemed necessary following an inspection. This is to ensure that the risk of loose rock falling onto the excavator is minimised.

To ensure both the objectives can be met, it is common practice to construct a temporary rock platform for the excavator to stand on.

The following procedure must apply when constructing rock platforms from the shot pile at the working face:

- The height of the platform shall be such that it enables the excavator to load safely into the rear of the dump trucks or mobile crusher being loaded.
- The material used shall be from the blasted shot pile and the material shall be compacted by running the excavator backwards and forwards over the surface.
- An access ramp shall be formed at the edge furthest away from the face and at a gradient as near to 1 in 10 as possible.
- The minimum width of the platform shall be at least 1.5 times the outside width of the excavators tracks eg 4m wide tracks will mean a minimum width of the platform of 6m.
- Before getting out of the excavator, the driver must ensure that the machine is on as level a surface as
 possible. A bund shall be constructed and maintained along the edge of the platform to prevent access
 by a pedestrian.
- The slopes of the edge of the platform must not be undercut. They must be at the natural angle of repose for the rock. As a guide the distance from the foot of the slope to the outer edge of the excavator track must be at least 1.5 times the height of the platform (see diagram below).
- Between the platform and the working face there must be a rock trap to prevent any falling rock reaching the excavator. The width of the rock trap shall be a minimum of one quarter the face height and the depth shall be a minimum of one eighth the face height eg on a 12m face, the trap would be 3m wide and 1.5m deep.



Remember:

- Only competent and authorised persons shall work on excavators at the face and construct rock platforms.
- All new drivers on excavators who will work at the face and construct rock platforms must be subject to specific assessment by an authorised EPIC approved assessor at the face on which they will be working.
- Any contractor on site required to drive an excavator on a shot pile must be assessed by an authorised and competent assessor before being given authorisation to work at the face.
- All drivers working at the face must have the site Excavation and Tips Rules explained to them along with any specific geo-technical information about the guarry faces.
- The excavator driver must inspect the working face and area at the start of each shift for signs of instability and to ensure the working platform is in good order. If there is any cause for concern in the faces or the rock pile, the driver must move the machine away from the area and contact the quarry supervision.
- NEVER undercut the edge of the rock platform by digging material away.
- Quarry supervision must include the excavation and the rock platform in their daily and weekly inspections as part of the Excavation and Tips Rules.
- The excavator driver must wear the seatbelt whenever he is working in the machine.

DO NOT LET THIS HAPPEN!



QUESTIONS – (there may be more than one correct answer)

		Α	В	С
1	Why are rock platforms used at the face?	To keep the excavator out of any water	To enable the driver to see into the rear of dumpers or into a mobile crusher feeder	To allow the excavator driver to reach the crest of the face in order to dress down any loose material
2	When should a rock trap be used in face excavations?	When there is a risk of falling rock	When the excavator cannot reach the crest	At all times when the excavator is working the face
3	How wide should the rock platform be?	A minimum of 1.5 times the width of the excavator tracks	As wide as the excavator	The same as the height of the platform
4	Who should be allowed to drive excavators at the face?	Only competent and authorised persons	Anyone with an EPIC or CSCS card	Anyone the manager appoints
5	What assessment should be carried out on excavator drivers?	By the quarry foreman	By a competent and authorised assessor	By an experienced excavator driver

Names of those who attended this Toolbox Talk		
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