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SJ Ball

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pinhole position and diameter

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when the soil is hard enough to stand

for few minutes

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stand without support for a few minutes  
in this method a small drift is prepared  
for inserting a needle beam consisting  
of two rail steel rs joists or i sections  
and is bolted together with a wooden  
block in the centre

*e21d 11 lining tunnels galleries or  
other underground google* - Aug 03  
2022

web cn102425435b ultra large whole  
circle needle beam type hydraulic steel  
mould trolley and demoulding method  
thereof 09 04 2013 cn102287207b  
assembling jacking method in relation  
to serious collapse