FALL CLEARANCE CALCULATION CHARTS

To determine the required **Fall Clearance** add the appropriate factors together, this will give you the safe **Required Distance** (RD) below the working surface for work which is to be carried out where there is any risk of falling.

Shock Absorbing Lanyard

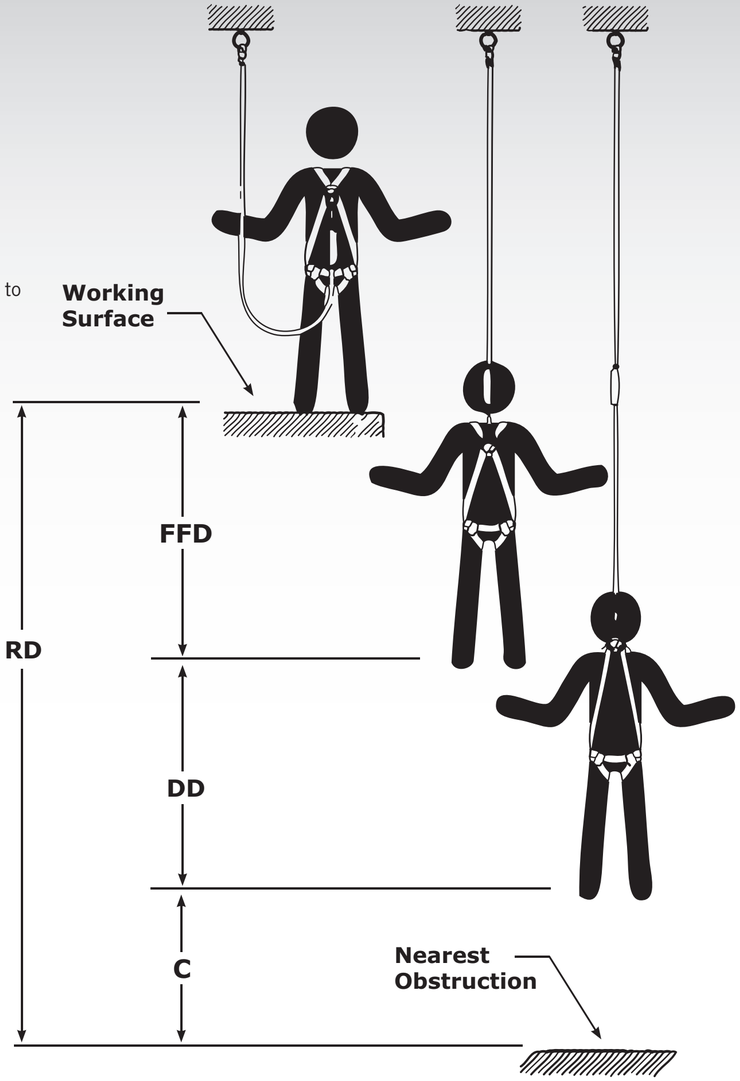
RD = Required Distance Below Working Surface to Nearest Obstruction

FFD = Free Fall Distance
(2.0m maximum allowed)

DD = Energy Absorber Deceleration Distance
When using a DBI-SALA lanyard
(1.75m max. for users up to 136kg)
(1.95m max. for users from 136kg to 160kg)
+ D-ring Slide and Harness Stretch (0.25m)

C = Clearance to Obstruction During Fall Arrest
(1.0m minimum safety factor required)

$$\frac{FFD + DD + C}{RD}$$



As per AS/NZS 1891.4, DD can be estimated based upon FFD in order to reduce RD.

FFD	Extension
600 mm	300 mm
1000 mm	500 mm
1500 mm	600 mm
2000 mm	900 mm

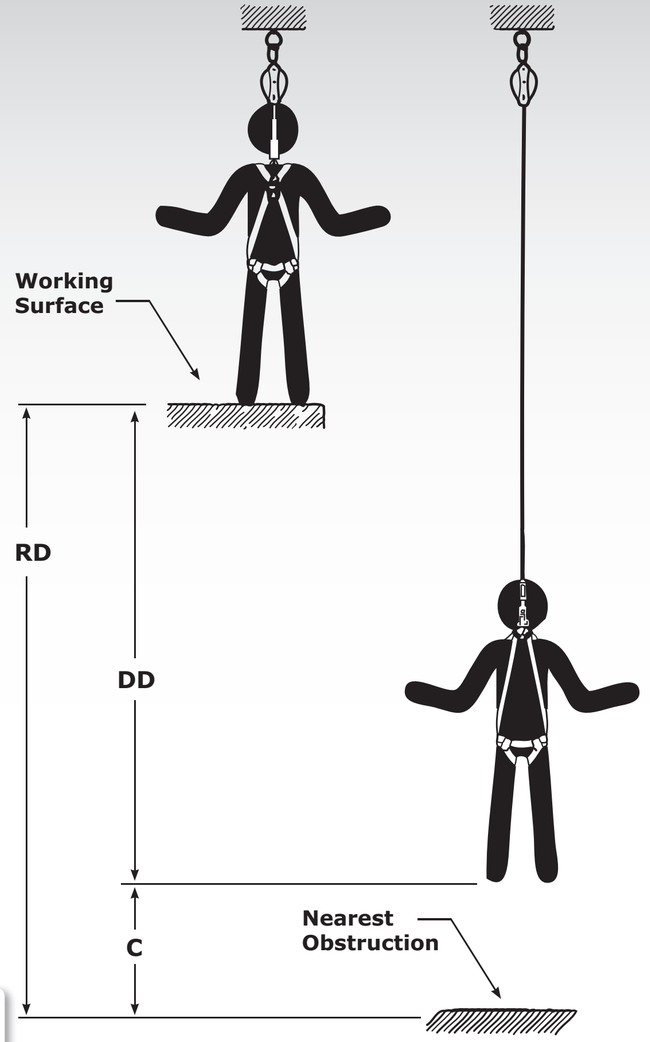
Self Retracting Lifeline

RD = Required Distance Below Working Surface to Nearest Obstruction

DD = Free Fall, Lock Off and Deceleration (1.4m max.) + D-ring Slide and Harness Stretch (0.25m)

C = Clearance to Obstruction During Fall Arrest
(1.0m minimum safety factor required)

$$\frac{DD + C}{RD}$$



As per AS/NZS 1891.4, DD can be estimated at 700mm. 250mm must be added for D-Ring slide.

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