

Difference between shoring and underpinning pdf

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Shoring and underpinning The arrangement employed to prevent a damaged structure, due to either foundation settlement or other reasons from collapse, is called shoring. It is also used for providing temporary support to a structure which is being remodeled. The shores are of types : ♦ Racking Shores : In this type, notches are cut in the walls of the building and inclined posts are properly, while demolishing the building, are called horizontal or flying shores. ♦ Horizontal or Flying Shores : The shores, which are employed to support the walls of adjoining property while demolishing the building are called horizontal or flying shores. ♦ Vertical Dead Shores : The vertical shores used to support walls temporarily are called vertical or Dead shores. Underpinning The operation of providing new permanent foundation is known as underpinning The under-pining may be done by the following methods. Pit Underpinning In this method, a pit is dug to expose the foundation to b remodeled & the old foundation is either removed completely or strengthened suitably. Pier Underpinning In this method of underpinning, piers under foundations of structures are installed, filled with concrete and wedged up to transfer the load to a new pier. This method is most suitable in dry ground. In pier underpinning, proper care must be taken to prevent loss of ground installing the sheeting, otherwise the building structure may sink. The least size of the underpinning pits to provide working place, for workers is 1m x 1.3m. The pits are sunk to a stratum strong enough. In this method piles are jacked into the ground with care for underpinning building, where underlying ground has water bearing strata. SHORING & UNDERPINNING 1 Shoring Lateral support for the sides of an excavation is usually provided by shoring. Shoring is the means of providing temporary support to structures that are in an unsafe condition till such time as they have been made stable, or to structures which might become unstable by reason of work being carried out on or near them, such as underpinning of foundations. Shoring is also used as temporary support to sides of excavations until soil can be stabilised or otherwise supported. Types of Shore Raking shore are generally used where external support is necessary. The angle of the shores is generally 60o to 75o. If the feet of raking shores obstruct construction operations then flying shores can be used provided that there is conveniently placed wall or other structure to strut against. For practical reasons the length of flying shores is generally limited to about 10m. Support to the vertical load of a wall, where it is required in conjunction with flying shores or horizontal ties, can be given by means of dead shores. Dead shores are vertical struts bearing on the ground at the required distance away from the wall to be clear of underpinning operations and surmounted by a horizontal beam or needle spanning between a pair of shores. 2 Underpinning Underpinning is required : (a) to support a structure which is sinking or tilting due to ground subsidence or instability of the superstructure; (b) as a safeguard against possible settlement of a structure when excavating close to and below its foundation level; (c) to support a structure while making alterations to its foundation or main supporting members; (d) to enable the foundations to be deepened for structural reasons, e.g. to construct a basement beneath a building; (e) to increase the width of a foundation to permit heavier loads to be carried, e.g. when increase the storey height of a building; (f) to enable a building to be moved bodily to a new site. [(a), (b) and (c) apply to shoring as well.] If underpinning is necessary to arrest settlement, it is essential that the underpinned foundations should be taken down to relatively unyielding ground below the zone of subsidence. E.g., if the bearing pressures of existing foundations are such that excessive settlement is occurring due to consolidation of a compressible clay soil it is quite useless simply to widen the foundations by shallow underpinning. This will merely transmit the pressures to the same compressible soil at a lower level (Figure 12.6(a)), and the cycle of settlement will start all over again. The underpinning must be taken down to a deeper and relatively incompressible stratum, if necessary by piers or piles (Figure 12.6(b)). If the structure to be underpinned is close to the excavation, it is often convenient to combine the underpinning with the supports to the excavation. E.g. the supports can consist of steel universal beam soldiers inserted in pre-bored holes with horizontal sheeting members to the tops of the piles (Figure 12.7(a)). Or, a system of close-space bored piles can be used (Figure 12.7(b)). Badger Daylighting Ltd™. ("Badger") is North America's leading provider of non-destructive hydrovac and potholing excavation services. Badger traditionally works for contractors, engineers, and facility owners in the oil and gas, power, municipal, transportation, industrial, and commercial construction industries. Our key technology is the Badger Hydrovac System, a truck-mounted hydrovac excavation unit that is used primarily for digging safely in areas with buried pipes and cables. Unlike traditional mechanical excavation, the Badger Hydrovac uses a pressurized water stream to liquefy the soil cover, which is then removed with a powerful vacuum system and deposited into a storage tank housed on the truck. 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SlideShare uses cookies to improve functionality and performance, and to provide you with relevant advertising. If you continue browsing the site, you agree to the use of cookies on this website. See our Privacy Policy and User Agreement for details. Suryakanta | September 24, 2015 | Building Construction, Construction | When temporary structures are provided to support platform for workmen, structural material and appliances required during construction at raised height (normally more than 1.5 m) it is called scaffolding. Scaffolding Applications of Scaffolds Scaffolding is necessary in following situations. To support the working platforms where masons can stand and carry on their duties such as plastering, brick laying or painting etc. Scaffolding is also provided where demolition or maintenance work of the building has to be carried out. Key Points to Consider During Scaffolding Construction and design of scaffold comes under safety regulation of building site. For example when a person is liable to fall from more than 2m, the platforms of the scaffolds are to be provided with a guard rail to a height of 1m and also a tie board at least 200 mm above the platform. About 35 to 40 percent of all the accidents that takes place in building construction sites is due to faulty scaffolding. Therefore strict supervision should be followed according to standard practice during scaffolding erection. All scaffolding should be properly fixed so that they do not fall away from wall laterally. Similarly it should be stable longitudinally also. The platform should be wide enough to accommodate a person working on it. It should not be less than 425 mm in width when the height is more than 1.8 m. When materials are to be stored on the platform then the width of the platform should not be less than 850 mm. Workmen should not work under the scaffolding. Types of Scaffolding The following different types of scaffolding are in common use. Single scaffolding or bricklayers scaffolding Double scaffolding or masons scaffolding Cantilever or needle scaffolding Birds cage scaffolding Ladder or trestle scaffolding Suspended scaffolding Shoring Construction of temporary structures to support an unsafe structure is called shoring. Shoring Applications of Shoring Shoring is provided in following situations When a building wall shows sign of bulging or leaning outward At the time of dismantling or reconstructing a defective building wall, shoring is provided to support the floors or roofs connected to that wall. Shoring is also provided to support super structure when large openings are required to be made in the walls. Key Points to Consider During Shoring Temporary support by means of shores to unsafe structures may be given externally or internally or may be from both sides. To maintain equilibrium, it is essential that the lines of actions of overturning forces in floors and roofs, the forces in walls and the reaction of the shores must meet at a single point. Shoring can be made of timber or steel considering the load it has to withstand. Shoring should be strong enough to resist the acting forces, consistent with economy Types of Shoring Depending on the supporting characteristic or their positions in the space, shorings are classified into following 3 types. Raking or inclined shores Flying or horizontal shores Dead or vertical shores Underpinning Structures provided underneath of an existing foundation to maintain its stability is termed as underpinning. Underpinning is used to repair, strengthen or renewal of the foundation of an existing building. During underpinning, the existing structure is required to be temporarily supported by means of raking shores. Underpinning Applications of Underpinning The following situations demand underpinning. When defective foundation of wall is to be replaced with new foundation or when existing foundation of a wall is required to be strengthened to enable it to carry more loads. To strengthen shallow footings of the existing building when a building with deep foundation is to be constructed adjoining to it. To safe guard against the danger of excessive or differential settlement of foundations of existing structure. To increase depth of foundation to increase its bearing capacity so as to sustain heavier loads. During construction of basement of an existing building structure. Key Points to Consider During Underpinning Building should be first examined for presence of any weakness such as poor brickwork or masonry and for effects of settlement which may arise during the underpinning operation. Temporary support should be provided by adequate shoring and by strutting up of openings and inside of floors. In case of underpinning below high rise buildings, check must be made to measure any movement of the building by means of plumb bob or total station. Types of Underpinning There are several methods of underpinning of foundation of which the three popular methods are as follow. Pit method – it involves strengthening by excavation and building below the existing foundation. Pile method – it involves supporting the building on newly built piles of various types without excavation. Pier method – this is a combination of pit and a pile method where first excavation is done below the foundation and a pier is built up for the new foundation. Geotechnical-Material Engineer. You can connect me on Google +. To know more about me just visit AboutMe

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