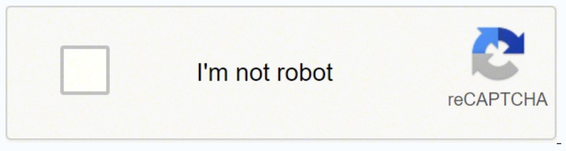

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in this file we'll calculate : Dimension in m, Active earth pressure, Passive earth pressure, Weights & Moments at toe, Check overturning Driving Moment, Resisting Moment, Check sliding Driving Force, Resisting Force, Check Stress M toe. Download cantilever retaining wall | cantilever retaining wall design excel A retaining wall can be constructed with mainly two different materials which are masonry as well as reinforced concrete. In the case of masonry retaining wall, the thickness of the vertical wall increases with an increase in height because masonry resists the lateral pressure by its own weight. Thus it is also known as a gravity retaining wall. While the reinforced concrete retaining wall resists the lateral pressure by structural(stress) action such as bending and results in the economical section (vertical wall very thinner).FOR DAILY CIVIL ENGINEERING JOBS UPDATE VISIT1. Vertical stem2. Base slabVertical stem in cantilever retaining wall withstands the pressure of earth from backfill side and bends similar to a cantilever action. The depth of the cantilever slab is greater at the base of the stem because the bending stress produced is greater and it reduces trapezoidal uprights because of decreasing soil pressure with a reduction in depthCIVIL ENGINEERING JOBSCompany NameLOCATIONAPPLY LINKASHKOM MEDIA INDIA PVT LTD RECRUITMENTPONDAApplyTMC RECRUITMENTMUMBAIApplyHILTI INDIA PVT LTD RECRUITMENTMUMBAIApplyThe base slab develops the foundation of the retaining wall. It is formed with a heel slab and the toe slab. The heel slab performs as a horizontal cantilever under the joint operation of the weight of the retaining earth from the upper and the soil pressure functioning from the soffit. The toe slab also performs as a cantilever under the operation of the soil pressure functioning upright. The strength of the wall is controlled with the weight of the earth fill and on the heel slab collectively with the self-weight of the structural components of the retaining wall. Cantilever type retaining walls can be used for up to 5m depth of backfill.Surcharge PressureThe thickness of the StemThickness of the BaseLength of BackfillHeight of Wall from the BaseWidth of the BaseCharacteristics of BackfillDrained (effective stress) Shear Strength ParameterUnit Weight of the backfillThe eccentricity of base reactionMaximum and minimum base pressuresFoS against slidingDownload Now [TELEGRAM##TELEGRAM##]Related Searchescantilever retaining wall |design of cantilever retaining wall |in a cantilever retaining wall without a heel slab |cantilever retaining wall reinforcement details |design of cantilever retaining wall nptel |in counterfort type retaining walls |design of counterfort retaining wall nptel |cantilever wall design |cantilever retaining wall height |maximum height of cantilever retaining wall |concrete cantilever retaining wall |cantilever retaining wall design excel |propped cantilever retaining wall |cantilever and counterfort retaining wall |design of rcc cantilever retaining wall |counterfort type retaining wall |components of cantilever retaining wall |l shaped cantilever retaining wall |rcc cantilever retaining wall |t shaped cantilever retaining wall |reinforced concrete cantilever retaining wall |cantilever retaining wall diagram |cantilever soldier pile |cantilever soldier pile wall design |in a cantilever retaining wall without heel slab |design steps of cantilever retaining wall |construction of cantilever retaining wall |design of shear key in cantilever retaining wall |cantilever masonry wall design Page 2 1.why we created website? To share all civil engineering material for students and Professionals 2. Mock test available? yeah.! we are conducting mock test 3. share autocad file? Ok we will update 4.Having Youtube channel? Yes,Its DBA -Civil Academy Design of cantilever retaining wall excel sheet Retaining wall or retaining structure is used for maintaining the ground surfaces at different elevations on either side of it. Whenever embankments are involved in construction, retaining wall is usually necessary. In the construction of buildings having basements, retaining walls are mandatory. Similarly, in bridgework, wing walls, abutments, etc. They are designed as retaining walls to withstand the pressure of the earth along with overlapping loads. The material retained or supported by a retaining wall is called a fill that lies above the horizontal plane at the elevation of the top of a wall is called an overload, and its inclination to the horizontal is called an overload angle. In the design of retaining walls or other retaining structures, it is necessary to compute the lateral earth pressure exerted by the retaining mass of soil. The equation of finding out the lateral earth pressure against retaining wall is one of the oldest in the Civil Engineering field. Rankine investigated the plastic state of stress, when failure is imminent, in 1860. A Lot of theoretical experiment work has been done in this field and many theories and hypotheses have been proposed. Retaining walls can be classified according to their mode of resistance to earth pressure and according to their shape. The following are some of the common types of retaining walls. Gravity walls Cantilever retaining walls. (a) T- Shaped. (b) L- Shaped. Counterfort retaining walls. Buttressed walls. Retaining wall design excel sheet Open and Download the excel sheet here. This excel sheet upload in google drive. A gravity retaining wall shown in fig 3 is the one in which the earth pressure exerted by the backfill is resisted by the deadweight of the wall, which is either made of masonry or of mass concrete. The stress develops in the wall is very low, These walls are no proportioned that no tension is developed anywhere, and the resultant of forces remain within the middle third of the base. Retaining wall design in excel Now you can easily calculate the design of T shaped cantilever retaining wall in this excel sheet. For any question, asked me in the comment box, Thank you. you are here Accueil | RESOURCES | Excel Sheets Templates | Cantilever Retaining Wall Analysis Excel Sheet 1 July 2019 Purpose of calculation: The details of a cantilever retaining wall are shown below, is the design of the wall satisfactory? Calculation Reference: Craig Soil Mechanics. R.F. Craig Calculation Validation: Check against a worked example in the reference above. Calculation Parameters : Surcharge Pressure Thickness of the Stem Thickness of the Base Length of Backfill Height of Wall from the Base Width of the Base Characteristics of Backfill Drained (effective stress) Shear Strength Parameter Unit Weight of the backfill Drained (effective stress) Shear Strength Parameter Characteristics of Concrete Unit Weight of Concrete Angle of friction between the base and the foundation soil is Active earth pressure coefficient Horizontal Forces Sum of Horizontal Forces Vertical Forces Sum of Vertical Forces Lever Moments Lever arm of base resultant FoS against overturning Eccentricity of base reaction Maximum and minimum base pressures FoS against sliding Calculation Reference Geotechnics Download Link error: Content is protected !! A retaining stands for a structure that is designed and constructed to sustain soil, rock or other materials in a vertical or approximately condition as well as resist the lateral pressure of soil as soon as any sudden change happens in ground elevation that exceeds the angle of repose of the soil. Classification of retaining wall There exist different types of retaining wall like gravity walls, pre-cast crib walls, keystone wall, gabion walls, reinforced concrete walls, sheet pile walls, tieback wall, MS walls (Cantilevered stabilized), counter fort wall, buttress wall, slurry and secant walls, Sheet Piling, Bored Pile, and Anchored. The following materials are generally utilized for retaining walls:- -Wood sheets; - Steel and plastic interlocking sheets; - Reinforced concrete sheets; - Precast concrete elements (crib walls and block walls); - Closely spaced in-situ soil-cement piles; - Wire-mesh boxes (gabbions); - Anchors into the soil or rock mass (soil nailing). Substitute retaining systems:- As an alternative, there exist some other methods like Soil nailing, Soil-strengthened, Gabion meshes, Mechanical stabilization, etc. The active pressure develops the retaining wall in proportional ratios from zero at the higher grade level to an utmost value at the lowest depth of the wall. To maintain proper functioning, retaining walls should be reinforced perfectly. To design a retaining wall easily and efficiently, the civil engineers can take help from a Retaining Wall Design Spreadsheet. The spreadsheet comprises of tabs to figure out stability, moment and shear, reinforcement etc. A superior quality retaining wall design spreadsheet contains user-friendly interface & different options that can make the design process for retaining wall considerably easy. To download this spreadsheet, click on the following link. Download Retaining Wall Design Spreadsheet

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