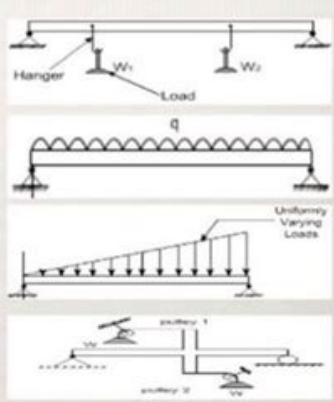


I'm not robot!

Load Types on Beams

- Types of loads on beam
 - Concentrated or point load
 - Uniformly distributed load
 - Uniformly varying load
 - Concentrated Moment



Frames:

Frames are structural members that consists of combination of slab, beams and columns

Footings:

Footings are pads or strips that support columns and spread their load directly to the soil.

Walls:

Walls are vertical plate elements resisting gravity as well as lateral loads e.g retaining walls, basement walls, etc

Structural & Non Structural Defects in Building Construction



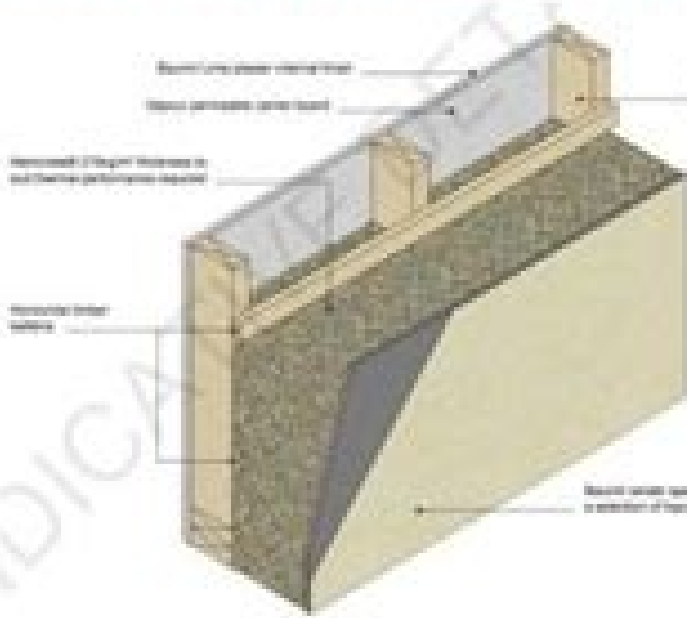
Concrete is very versatile material. It can be cast in place with or without reinforcement. It can also be precast or prestressed in order to achieve the required strength. In order to achieve the required strength there is the need of proper understanding of its behavior and constituents that are making the concrete. Any type of negligence in any of its phase like placement, design & maintenance can lead towards its deterioration and finally it will not be able to perform its intended functions. Some of the factors that can cause the deterioration of concrete are;

1. Accidental loading
2. Chemical reaction like sulfate attack, alkali carbonate reactions, alkali silica reactions etc
3. Corrosion of steel reinforcement
4. Poor construction detailing
5. Emsion
6. Freezing and Thawing
7. Shrinkage
8. Settlement
9. Fire and weathering

Defects in Building Design:

SAQIB IMRAN 0341-7549889

Guidance notes for timber frame design with Tradical® Hemcrete® .



This guide is to read in conjunction with the AKS Ward guide attached to determine the structural requirements.

Design in accordance with current British standards, Building Regulations, TRADA and UKTFA Guidance as deemed necessary.

A 'standard' timber frame for Tradical® Hemcrete® has the frame on the inside of the wall with a racking board of 9mm Multi-pro XS on the internal face.

The thickness of the Tradical® Hemcrete® does not relate to the width of the timber studs – wall thickness

relates to the U-value of the wall. Studs can be 89 x 38mm for a 300mm thick Tradical® Hemcrete® wall, with studs centres being a function of wind and supported floor loading i.e. as either gets greater, then the stud centres close. This is a structural engineering function not related to the Tradical® Hemcrete®, hence the responsibility of the timber frame designer. Taller walls and more exposed locations will require deeper / wider studs and/or closer centres. Tradical® Hemcrete® is an insulation which restrains the timber frame – it is not load bearing.

The door / windows normally sit outside the line of the timber frame and are fixed back to the frame with brackets.

Door / window openings should be 5mm larger than the proposed frame size on the cill and sides or to the manufacturer's recommendations, whichever is the greater. The head should 25mm taller than the window frame on the top to allow for a permanent soffit shutter to the Tradical® Hemcrete®.

Horizontal noggins should be avoided and preferably omitted, or minimised in the frame. Tradical® Hemcrete® provides the similar function of stabilising an unbound length which buckles about minor axis and horizontal elements make full placing of material awkward.

Nails wholly within timber can be standard finish but any structural metal brackets or strapping exposed to the binder should be stainless steel or painted with red oxide or black bitumen to separate the lime binder from the galvanising (a potential bi-metallic reaction)

Engineered timber joists rather than solid joists should be used for the floors to minimise shrinkage potential at the floor zone.

Review of the panel drawings may reveal areas (such as thin columns between full height windows) where Tradical® Hemcrete® may not be the most practical solution. Wood fibreboards may be of assistance in these situations where the slender section of Tradical® Hemcrete® may be unstable or easily damaged– see photograph.



Cement

Cement in general sense is a binding material which is capable of binding together particles of solid material. For engineering work they are restricted to hydraulic cement containing compound of lime or which chief constituents perform function being to bind the lime and other aggregate particles together.

Cement used in construction industry may be classified as hydraulic and non-hydraulic. The hydraulic cement sets and hardens in water and gives a product which is stable to Portland Cement.

Non-hydraulic cement doesn't set and harden in water but which are unstable in water. Ex. Plaster of Paris.

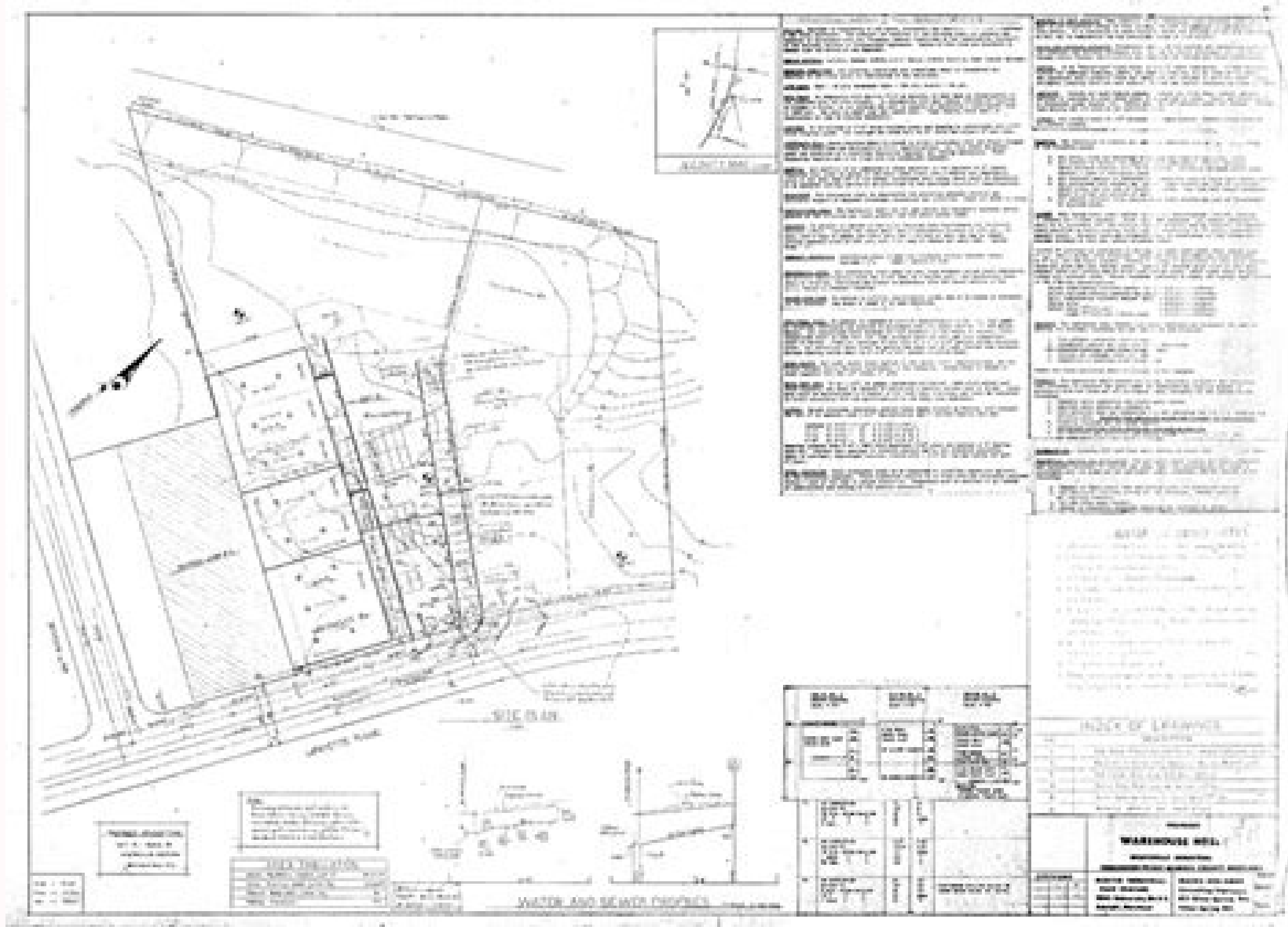
Cement can be manufactured either from natural cement stone or artificially by using argillaceous and calcareous materials.

Examples of Natural cement: Roman Cement, Pozzolanic Cement.

Examples of artificial cement: Portland Cement.

General uses of Cement:

Today cement find extensive use in all types of construction work, in structure where high strength is required.



This site is not available in your country Samsung may soon be embroiled in a production-related controversy all of its own, after mercilessly mocking rival Apple over the iPhone 6 Plus and #BendGate. According to reports from Korea, the Galaxy Note 4 may be suffering from quality control issues, where the phone's large screen doesn't quite meet the edge of the body. In some photographed cases, the gap is large enough to fit in two pieces of paper, or a business card. Updated on 10-01-2014 by Andy Boxall: Proof that Samsung knows about the Note 4's screen gap can be found in the device's user manual. When news of the gap between screen and body first appeared in a report by ITToday, a Korean website, it was said Samsung was aware of the "gap phenomenon." This has been confirmed in a slightly unusual way. Under the troubleshooting section of the Note 4's user manual, the following advice appears: "A small gap appears around the outside of the device. This gap is a necessary manufacturing feature and some minor rocking or vibration of parts may occur. Over time, friction between parts may cause this gap to expand slightly." The gap is meant to be there, then, according to Samsung. Exactly why it's needed isn't stated, but we could speculate that it may compensate for heat-related expansion in the new metal frame. Whatever the case, not all owners will be happy to accept the gap, particularly if it's noticeable so soon after purchase. One Galaxy Note 4 owner, who discussed the problems on a Korean Web forum, said he had taken the device back to a Samsung service center for replacement. It's not clear whether he was given a new phone. The Galaxy Note 4 was announced during the Berlin IFA 2014 tech show in early September, and was originally scheduled for release sometime in October. However, Samsung pushed the release forward in certain regions, to ensure it could effectively combat the iPhone 6 Plus. The phone went on sale in Korea this week, and the limited, initial stock of around 30,000 phones has already been sold. A rushed release followed by talk of build quality problems isn't a recipe for consumer confidence. Only time will tell if this continues to frustrate Note 4 owners. Nonetheless, like the iPhone 6 Plus' problems, that may not stop it becoming a larger public relations issue, should a few more affected phones slip through the cracks. Samsung is pushing the Galaxy Note 4 very hard, and has released a lengthy 4-minute promo video to bring even more attention to the massive device. You can check it out below, but be warned, it's highly irritating. In America, the Galaxy Note 4 will be available to buy on October 17, so let's hope tales of these early problems don't continue then. We've contacted Samsung to get their comments on this story, and will update when we receive a response. Editors' Recommendations Foundation: Preliminary investigation of soil, safe bearing capacity of soil, Function and requirements of a good foundation, types of foundation, introduction to spread, combined, strap, mat and pile foundation Masonry: Definition and terms used in masonry, Brick masonry, characteristics and requirements of good brick masonry, Bonds in brickwork, Header, Stretcher, English, Flemish bond, Stonemasonry, Requirements of good stone masonry, Classification, characteristics of different stone masonry, Joints in stone masonry. Types of walls; load-bearing, partition walls, cavity walls. Lintels and Arches: Definition, function and classification of lintels, Balconies, chejja and canopy. Arches: Elements and Stability of an Arch. Floors and roofs: Floors; Requirement of a good floor; Components of the ground floor, Selection of flooring material Procedure for laying of Concrete (VDF), Mosaic, Kota, Slate, Marble, Granite, Tile flooring, Cladding of tiles. Roof: Requirement of a good roof, Types of the roof, Elements of a pitched roof, Trussed roof, King post-Truss, Queen Post Truss, Steel Truss, Different roofing materials, R.C.C. Roof, Doors, Windows and Ventilators: Location of doors and windows, technical terms, Materials for doors and windows: PVC, CPVC and Aluminum. Types of Doors and Windows: Paneled, Flush, Collapsible, Rolling shutter, Paneled and glazed Window, Bay Window, French window. Steel windows, Ventilators. Sizes as per IS recommendations. Stairs: Definitions, technical terms and types of stairs: Wood, RCC, Metal. Requirements of good stairs. The geometrical design of RCC doglegged and open-well stairs. Formwork: Introduction to formwork, scaffolding, shoring, underpinning. Building Materials handwritten note PDF for SSC JE is available here. Please follow the below download link to download it. BMC Handwritten PDF Download. SSC JE Syllabus Building Materials: Physical and Chemical properties, classification, standard tests, uses and manufacture/quarrying of materials e.g. building stones, silicate-based materials, cement (Portland), asbestos products, timber and wood-based products, laminates, bituminous materials, paints, varnishes. Contents of the Note 1. Rocks & Stones 2. Clay Products (Bricks) Introduction Classification of Burnt Bricks Composition Manufacturing of Bricks Testing of Bricks Types of Bricks 3. Lime Types of Lime Definitions Classification of Lime Application of Lime 4. Mortar 5. Wood & Wood Products Defects of Timber Seasoning of Timber 6. Paints Introduction Ingredients of Paints 7. Varnishes 8. Distempers 9. Miscellaneous Paints Download For SSC JE- Building Materials Handwritten Note [PDF] BMC (Building Materials & Construction Technology) Handwritten Note BMC MCQ PDF Download For GATE- Civil Engineering All Notes 1 Course Introduction (PDF - 1.5 MB) 2 Foundations 3 Foundation Diagrams 4 Introduction to Sustainable Design Issues (PDF) 5 Architecture Structures (PDF) 6 Architecture Structures 2 (PDF) 7 Quiz 1 8 Wood 1 (PDF - 1.3 MB) 9 Wood 2 (PDF) 10 Active Statics 11 Exterior Envelopes (PDF - 1.4 MB) 12 Window Technologies (PDF - 1.7 MB) 13 AL Roof System 14 Quiz 2 15 Exterior Envelopes 2 16 Masonry 1 (PDF - 1.8 MB) 17 Masonry 2 (PDF - 1.4 MB) 18 Masonry 3 (PDF - 1.5 MB) 19 Metals (PDF 1 of 2 - 2.2 MB) (PDF 2 of 2 - 3.7 MB) 20 Concrete 1 (PDF - 1.7 MB) 21 Final Session

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