

Green Building Materials & Methods: An Overview

Dr. Mukesh Kumar Lalji¹; Dr. Ashish Dongre²; Sourabh Tiwari³; Dr. A. K. Tuli⁴,
Rajendra Rusia⁵; Himanshu Tiwari⁶; Ashish Tiwari⁷; Sukhlal Sangule⁸;
Gaurav Lalji⁹; Divya Lalji¹⁰; Arvind Jain¹¹; AR. Sandhya Ekbote¹²

¹Vice-Principal; ²Principal; ³CS; ⁴Prod.; ⁵HOD E & TC; ⁶Civil;

⁷T.P.O; Prod; ⁸HOD IT; ^{9,10}Alumni CS; ¹¹Mech; ¹²I/C HOD Architecture

Department of Technical Education, Skill Development & Employment,

M.P. Govt., S.V. Polytechnic College, Shyamla Hills, Bhopal, Madhya Pradesh, India

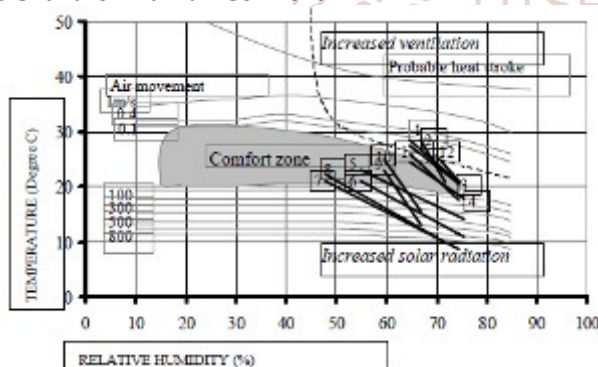
ABSTRACT

Green Building involves using a variety of different approaches and materials to make a structure that is healthy for the occupants, for the local area and globally. But there are two basic subcategories with location and Materials. Site location is one of the most important single factors. For millennia people have known that location can make all the difference in the world for comfort. Here are just a few examples.

KEYWORDS: Green Building, Different building Materials, Locations, Occupants, Healthy Environment

Introduction: By orientation southern Exposure is the most important and easiest way to address green building and sustainability issues with Materials- Reclaim, Non-toxic, Local, Organic and Native Species in Landscaping.

Bioclimatic Chart for Human Comfort:



How to cite this paper: Dr. Mukesh Kumar Lalji | Dr. Ashish Dongre | Sourabh Tiwari | Dr. A. K. Tuli | Rajendra Rusia | Himanshu Tiwari | Ashish Tiwari | Sukhlal Sangule | Gaurav Lalji | Divya Lalji | Arvind Jain | AR. Sandhya Ekbote "Green Building Materials & Methods: An Overview" Published in International Journal of Trend in Scientific Research and Development (ijtsrd), ISSN: 2456-6470, Volume-5 | Issue-4, June 2021, pp.25-27, URL: www.ijtsrd.com/papers/ijtsrd41172.pdf



IJTSRD41172

Copyright © 2021 by author (s) and International Journal of Trend in Scientific Research and Development Journal. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (CC BY 4.0) (<http://creativecommons.org/licenses/by/4.0>)



Construction Techniques:

Adobe:



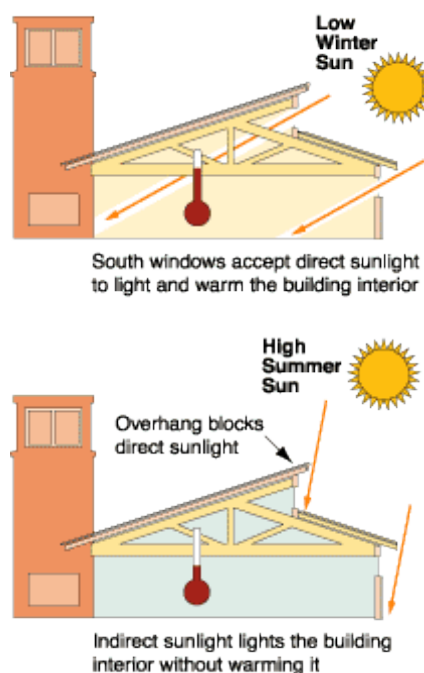
Straw-Bale:



Rammed Earth:

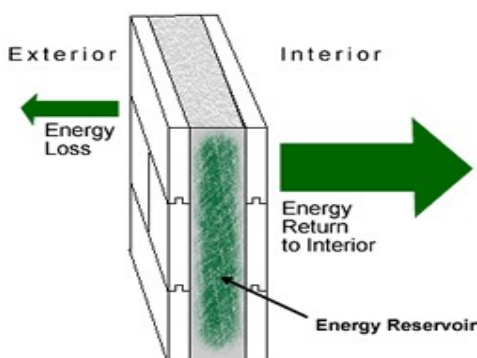


Clerestory Windows:



Insulated Concrete Panels:

Thermal Mass Effect



Conventional materials:

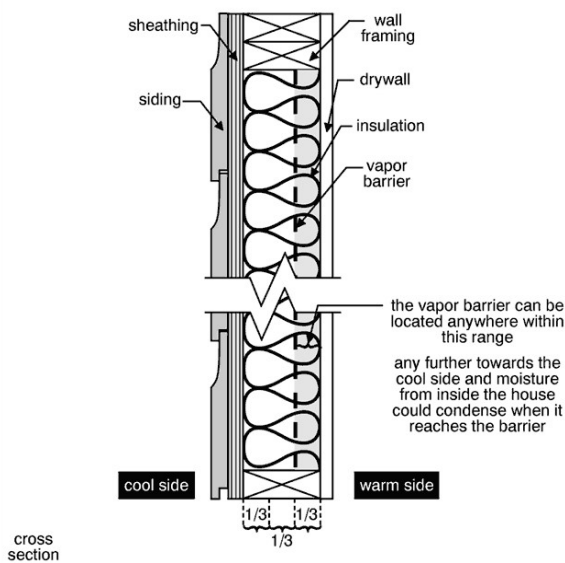
- VOCs
- Health Effects from these compounds



Thermal Mass:

Vapor Barrier location:

Vapor barrier location



Conclusion: In green buildings More Money in Pockets Save Humanity – the planet will be here long after are gone for Comfort and Bragging rights to Neat gizmos. The novel worth of this paper is to fabricate an information chart for green structure dependent on groups, and reference blasts utilizing the capacity of quantitative examination of Cite Space. In the future, the information can be refreshed consistently to complete applicable green building materials applications, so additionally improve the green building structure.

REFERENCE

- [1] Bhutta, F. M. Application of smart energy technologies in building sector-future prospects. In Proceedings of the 2017 International Conference on Energy Conservation and Efficiency (ICECE), Lahore, Pakistan, 22–23 November 2017; pp. 7–10.

- [2] Lu, Y.; Peng, C.; Li, D. Which activities contribute most to building energy consumption in China? A hybrid LMDI decomposition analysis from year 2007 to 2015. *Energy Build.* 2018, 165, 259–269.
- [3] Zhu, J.; Hua, W. J. Visualizing the knowledge domain of sustainable development research between 1987 and 2015: A bibliometric analysis. *Scientometrics* 2017, 110, 893–914.
- [4] Zuo, J.; Zhao, Z. Y. Green building research–current status and future agenda: A review. *Renew. Sustain. Energy Rev.* 2014, 30, 271–281.
- [5] Hou, J. H.; Yang, X. C.; Chen, C. M. Emerging trends and new developments in information science: A document co-citation analysis (2009–2016). *Scientometrics* 2018, 115, 869–892.
- [6] Liu, J. Evaluation of green building energy-saving technology based on entropy weight method. *Appl. Mech. Mater.* 2017, 865, 301–305.
- [7] Hosseini, M. R.; Martek, I.; Zavadskas, E. K.; Aibinu, A. A.; Arashpour, M.; Chileshe, N. Critical evaluation of off-site construction research: A scientometric analysis. *Autom. Constr.* 2018, 87, 235–247.

