### EXTERIOR INSULATION FINISH SYSTEMS (EIFS) WALL CONSTRUCTION

## EXTERIOR INSULATION FINISH SYSTEMS (EIFS) WALL CONSTRUCTION DETAILS

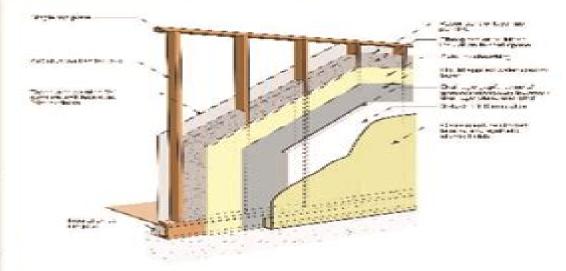
- 2x6 wood frame wall at 24" o.c.
- Fiberglass or cellulose cavity insulation
- · Glass-faced gypsum sheathing
- Liquid applied water control layer
- Exterior EPS insulation
- Drainage gap/channels/grooves necessary between water control layer and EPS
- Stucco finish

#### Note:

 Thickness of the EPS will need to be increased in very cold climates to control temperature of condensing surface.

#### REFERENCES

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#### INTRODUCTION

This overview summarism EIPS wall construction including the advantages and disadvantages of this core traction strategy. Complex two dimensional heat flow analysis and one dimensional bygrothermal modeling were used to determine mois two related disability risks for analysis.

For a more complete analysis of this and other wall constructions, go to www.husidingscience.com.

#### THERMAL CONTROL

Intelled Intelletion Resolve The framed portion of this wall amenably typically has an Revalue of Re19 to Re20 when insulated with fiberglam batt or cellulose. Extensor insulation for EIFS is typically EPS at Re4/such.

If helical Review Using two dimensional heat flow analysis with thermal bridging effects and average farming factors demonstrates improvements in the efficiency of the fiberglass bett or cellulose in the stud space by decreasing the thermal bridging effects of the farming and the rim joint Adding 4" of EPS invokation for a total increase of R-16 increases the clear-wall R-value of standard construction by slightly more than R-16 because of thermal bridging of the framing and rim joint. The whole-wall R-value for this system is approximately R-30.

-tir Lastogr County Fiberging how, blown and sprayed collabors are all air permeable materials allowing possible air paths between the intestor and exterior as well as convective looping through the conterial. The air tightness of an EIPS system is typically at the surface of the extensor shearthing (upually glass-faced exterior grysum) because it is the water control laws.

Tiprical Instalation Product: EPS extensor introduction, filtergloss batt, blown cellulose, spenyed cellulose.

Revenue Minimum 2014

# **Exterior Insulation And Finish Systems Current Practices And Future Considerations**

Ed Bowker Staff, Staff Bowker, Ed

#### **Exterior Insulation And Finish Systems Current Practices And Future Considerations:**

Exterior Insulation and Finish Systems Mark F. Williams, Barbara Lamp Williams, 1994-01-01 Exterior Insulation Finish Systems (EIFS) Peter E. Nelson, Richard E. Kroll, 1996 **Performance of Exterior Building Walls Paul G.** Johnson, 2003 Annotation All of the presentations and the papers in this publication address ways to improve the performance of exterior building walls or ways to identify understand and avoid the factors leading to failures in the future **Problems in Building Exterior Walls** Jon M. Boyd, Michael J. Scheffler, 1999 The Encyclopedia of Associations and Structural Renovation of Buildings: Methods, Details, & Information Sources for Architects, Designers, and Engineers, Design Examples Alexander Newman, 2001 Make any renovation job go smoother Building renovation conservation and reuse represents more than half of all construction work and is projected to increase to 80% by 2004 Structural Renovation of Buildings by Alexander Newman puts a single convenient source of information about all aspects of structural renovation and strengthening of buildings at your fingertips While its focus is largely on low and midrise buildings you can apply the principles it clarifies to buildings of any size steel framed masonry or wood Whether you re repairing deteriorated concrete rehabilitating slabs on grade strengthening lateral load resisting systems renovating a building facade handling seismic upgrades or fire damage you ll find this time and trouble saving guide loaded with practical tips methods and design examples It s also heavily illustrated with autoCAD generated details supplier illustrations of materials procedural techniques Water Leakage Through Building Facades Robert J. Kudder, Jeffrey L. Erdly, 1998 Derived from and much much more an American Society for Testing and Materials symposium of the same title held in March 1996 in Orlando Florida 23 papers canvass the art and science of design including using the rainscreen RAIN computer program repair and testing and quality control issues e g using modified A Construction Index ,1991 **Annual Book of ASTM Standards ASTM** International, American Society for Testing and Materials, 2003 Architecture ,1995-05 American Book Publishing **Record** .1995 Small Business Sourcebook Yolanda A. Johnson, Sonya D. Hill, Julie A. Mitchell, 1998 **Small Business** Sourcebook, 1996 A guide to the information services and sources provided to 100 types of small business by associations consultants educational programs franchisers government agencies reference works statisticians suppliers trade shows and Small Business Sourcebook Thomson Gale, 2002-12 A two volume annotated guide to 26 670 listings venture capital firms of live and print sources of information designed to facilitate the start up development and growth of specific small businesses as well as 26 158 similar listings for general small business topics An additional 11 167 entries are provided on a state by state basis also included are 965 relevant U S federal government agencies and branch offices Architectural **Forthcoming Books** Rose Arny, 1995-02 Record, 1995 Subject Guide to Books in Print ,1996 **Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004 **Olin's Construction** H. Leslie Simmons, 2006-11-03 Get the industry standard updated for a new age of construction For more than fifty years Construction has been the cornerstone reference in

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conducting research into bioengineering and

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