

Web Links TO ACCOMPANY

FUNDAMENTALS OF BUILDING CONSTRUCTION: MATERIALS AND METHODS, 5th EDITION

All Chapters

CHAPTER 1

Making Buildings

Author's supplementary website: http://www.ianosbackfill.com/01_making_buildings/

Whole Building Design Guide: <http://www.wbdg.org>

Sustainability

American Society of Heating, Refrigerating and Air-Conditioning Engineers: <http://www.ashrae.org>

Architects/Designers/Planners for Social Responsibility: <http://www.adpsr.org>

Canada Green Building Council: <http://www.cagbc.org>

U.S. Environmental Protection Agency Energy Star Program: <http://www.energystar.org>

Green Building Initiative (GBI): <http://www.thegbi.com>

Green Globes: <http://www.greenglobes.com>

NAHB Research Center, Green Home Building Guidelines:

<http://www.nahbrc.org/greenguidelines/>

NAHB Research Center, National Green Building Standard (standard under development at the time of this writing): <http://www.nahbrc.org/gbstandard>

Sustainable Buildings Industry Council (SBIC): <http://www.sbicouncil.org>

US Green Building Council (USBGC): <http://www.usgbc.org>

The Work of the Design Professional: Choosing Building Systems

American Institute of Architects (AIA): <http://www.aia.org>

American Planning Association (APA): <http://www.planning.org>

Canadian Codes Centre: <http://www.irc.nrc-cnrc.gc.ca/codes/>

International Code Council (ICC): <http://www.iccsafe.org>

US Department of Justice, Americans with Disabilities Act (ADA): <http://www.ada.gov>

Construction Standards and Information Resources

American National Standards Institute (ANSI): <http://www.ansi.org>

ASTM International: <http://www.astm.org>

Canadian Standards Association (CSA): <http://www.csa.ca>

Construction Specifications Canada (CSC): <http://www.csc-dcc.ca>

Construction Specifications Institute (CSI): <http://www.csinet.org>

National Institute of Building Sciences (NIBS): <http://www.nibs.org>

National Research Council Canada, Institute for Research in Construction (NRC-IRC):
<http://www.irc.nrc-cnrc.gc.ca>

Underwriters Laboratories, Inc. (UL): <http://www.ul.com>

US Department of Commerce, National Institute of Standards and Technology (NIST):
<http://www.nist.gov>

US Department of Energy, Building Energy Codes: <http://www.energycodes.gov>

The Work of the Construction Professional: Constructing Buildings

Associated General Contractors of America (AGC): <http://www.agc.org>

Building Owners and Managers Association (BOMA): <http://www.boma.org>

Construction Management Association of America (CMAA): <http://www.cmaanet.org>

The Construction Users Roundtable (CURT): <http://www.curt.org>

Design-Build Institute of America (DBIA): <http://www.dbia.org>

CHAPTER 2

Foundations

Author's supplementary website: http://www.ianosbackfill.com/02_foundations/

Whole Building Design Guide, Foundation Walls: http://www.wbdg.org/design/env_bg_wall.php

Subsurface Exploration and Soils Testing

Ardaman & Associates (geotechnical consulting): <http://www.ardaman.com>

Dewatering

Griffin Dewatering: <http://www.griffindewatering.com>

Deep Foundations

Case Foundation Company: <http://www.casefoundation.com>

Geopier Foundation: <http://www.geopier.com>

Layne Christensen Company: <http://www.laynegeo.com>

Nicholson Construction Company: <http://www.nicholsonconstruction.com>

Schnabel Foundation Company: <http://www.schnabel.com>

Waterproofing

Grace Construction Products: <http://www.na.graceconstruction.com>

CETCO Building Materials Group: <http://www.cetco.com/BMG/>

CHAPTER 3

Wood

Author's supplementary website: http://www.ianosbackfill.com/03_wood/

Forest Stewardship Council: <http://www.fsc.org>

Sustainable Forestry Initiative: <http://www.aboutsfi.org>

Lumber

American Wood Council: <http://www.awc.org>
Canadian Wood Council: <http://www.cwc.ca>
Hardwood Council: <http://www.hardwoodcouncil.com>
US Forest Products Laboratory: <http://www.fpl.fs.fed.us>
Western Wood Products Association: <http://www.wwpa.org>

Wood Products

American Institute of Timber Construction: <http://www.aitc-glulam.org>
APA – The Engineered Wood Association: <http://www.apawood.org>

Wood Panel Products

APA – The Engineered Wood Association: <http://www.apawood.org>
Composite Panel Association: <http://www.pbmdf.com>
Hardwood Plywood & Veneer Association: <http://www.hpva.org>
WTCA (formerly Wood Truss Council of America): <http://www.sbcindustry.com>

Wood Chemical Treatments

AWPA – The American Wood Preservers Association: <http://www.awpa.com>

Manufactured Wood Components

Manufactured Housing Institute: <http://www.manufacturedhousing.org>
Structural Insulated Panel Association: <http://www.sips.org>
Chapter 4 Web Links

Heavy Timber Frame Construction

Author's supplementary website:
http://www.ianosbackfill.com/04_heavy_timber_frame_construction/
American Institute of Timber Construction: <http://www.aitc-glulam.org>
American Wood Council: <http://www.awc.org>
Canadian Wood Council: <http://www.cwc.ca>
Timber Framers Guild: <http://www.tfguild.org>

CHAPTER 5

Wood Light Frame Construction

Author's supplementary website:
http://www.ianosbackfill.com/05_wood_light_frame_construction/
American Wood Council: <http://www.awc.org>
APA – Engineered Wood Association: <http://www.apawood.org>
Canadian Wood Council: <http://www.cwc.ca>
Fine Homebuilding Magazine: <http://www.finehomebuilding.com>
Journal of Light Construction Magazine: <http://www.jlconline.com>
NAHB Toolbase Services: <http://www.toolbase.org>
Wood Design & Building Magazine: <http://www.wood.ca>

CHAPTER 6

Exterior Finishes for Wood Light Frame Construction

Author's supplementary website:

http://www.ianosbackfill.com/06_exterior_finishes_for_wood_light_frame_construction/

Roofing

National Roofing Contractors Association: <http://www.nrca.net>

Windows and Doors

Anderson Windows & Doors: <http://www.andersenwindows.com>

Fleetwood Windows & Doors: <http://www.fleetwoodusa.com>

Pella Windows and Doors: <http://www.pella.com>

Quantum Windows & Doors: <http://www.quantumwindows.com>

Siding

Cedar Shake & Shingle Bureau: <http://www.cedarbureau.org>

James Hardie Fiber Cement Siding: <http://www.jameshardie.com>

Portland Cement Association--Stucco (Portland Cement Plaster): <http://www.cement.org/stucco/>

Vinyl Siding Institute: <http://www.vinylsiding.org>

Western Red Cedar Lumber Association: <http://www.wrcla.org>

Exterior Painting

Benjamin Moore Paints: <http://www.benjaminmoore.com>

Cabot Stains: <http://www.cabotstain.com>

Green Seal: <http://www.greenseal.org>

Master Painters Institute (MPI): <http://www.paintinfo.com>

MPI Specify Green: <http://www.specifygreen.com>

Olympic Paints and Stains: <http://www.olympic.com>

Sherwin-Williams Coatings: <http://www.sherwin-williams.com>

CHAPTER 7

Interior Finishes for Wood Light Frame Construction

Author's supplementary website:

http://www.ianosbackfill.com/07_interior_finishes_for_wood_light_frame_construction/

Thermal Insulation and Vapor Retarder

Building Science Corporation: <http://www.buildingscience.com>

Dow Chemical rigid foam insulation: <http://www.dow.com/styrofoam/>

Gypsum Association: <http://www.gypsum.org>

Icynene Corporation spray-foam insulation: <http://www.icynene.com>

Owens Corning insulation products: <http://www.owenscorning.com>

Wall and Ceiling Finish

USG gypsum products: <http://www.usg.com>

Millwork and Finish

Architectural Woodwork Institute: <http://www.awinet.org>

Hardwood Plywood & Veneer Association: <http://www.hpva.org>

Jeld-Wen Windows & Doors: <http://www.jeld-wen.com>

Window and Door Manufacturers Association: <http://www.wdma.org>

Proportioning Fireplaces

Buckley Rumford Company: <http://www.rumford.com/>

Flooring and Ceramic Tile Work

American Olean Tile: <http://www.americanolean.com>

Tile Council of America: <http://www.tileusa.com>

CHAPTER 8

Brick Masonry

Author's Supplementary Website: http://www.ianosbackfill.com/08_brick_masonry/

Brick Industry Association: <http://www.bia.org>

General Shale Brick: <http://www.generalshale.com>

Glen-Gery Brick: <http://www.glengerybrick.com>

International Masonry Institute: <http://www.imiweb.org>

Stiles and Hart Brick Company: <http://www.stilesandhart.com>

CHAPTER 9

Stone and Concrete Masonry

Author's Supplementary Website: http://www.ianosbackfill.com/09_stone_and_concrete_masonry

Autoclaved Aerated Concrete Products Association: <http://www.aacpa.org>

Building Stone Institute: <http://www.buildingstoneinstitute.org>

Bybee Stone Company: <http://www.bybeestone.com>

Genuine Stone: <http://www.genuinestone.com>

Indiana Limestone Institute: <http://www.iliai.com>

Marble Institute of America: <http://www.marble-institute.com>

National Concrete Masonry Association: <http://www.ncma.org>

Portland Cement Association: <http://www.cement.org>

Trenwyth Architectural Masonry Units: <http://www.trenwyth.com>

CHAPTER 10

Masonry Wall Construction

Author's Supplementary Website:

http://www.ianosbackfill.com/10_masonry_loadbearing_wall_construction/

Dur-O-Wall: <http://www.dur-o-wal.com>

Grace Construction Products: <http://www.na.graceconstruction.com> (select "Masonry Products")

Hyload Flashings: <http://www.hyloadflashing.com>

The Masonry Society: <http://www.masonrysociety.org>

Mortar Net: <http://www.mortarnet.com>

Thermadrain: <http://www.thermadrain.com>

CHAPTER 11

Steel Frame Construction

Author's supplementary web site: http://www.ianosbackfill.com/11_steel_frame_construction/

The Material Steel

American Institute of Steel Construction (AISC): <http://www.aisc.org>

American Iron and Steel Institute: <http://www.steel.org>

Chaparral Steel: <http://www.chaparralsteel.com>

Jacob Stainless Steel Fittings and Wire: <http://www.jakobstainlesssteel.com>

Lincoln Electric Welding: <http://www.lincolnelectric.com>

Nucor Steel: <http://www.nucor.com>

Nucor – Vulcraft Group: <http://www.vulcraft.com>

Steel Joist Institute (SJI): <http://www.steeljoist.org>

Steel Recycling Institute: <http://www.recycle-steel.org>

Longer Spans in Steel

Birdair Tensioned Membrane and Lightweight Structures: <http://www.birdair.com>

CHAPTER 12

Light Gauge Steel Frame Construction

Author's supplementary web site:

http://www.ianosbackfill.com/12_light_gauge_steel_frame_construction/

Center for Cold-Formed Steel Structures:

<http://www.web.umn.edu/~ccfss/research&abstracts.html>

Dietrich Metal Framing: <http://www.dietrichindustries.com>

Steel Framing Alliance: <http://www.steel FramingAlliance.com>

United States Gypsum: <http://www.usg.com>

CHAPTER 13

Concrete Construction

Author's supplementary web site: http://www.ianosbackfill.com/13_concrete_construction/

American Concrete Institute International: <http://www.concrete.org>

Portland Cement Association: <http://www.cement.org>

Reinforcing

Concrete Reinforcing Steel Institute: <http://www.crsi.org>

CHAPTER 14

Sitecast Concrete Framing Systems

Author's supplementary web site:

http://www.ianosbackfill.com/14_sitecast_concrete_framing_systems/

Dayton Superior formwork accessories: <http://www.daytonconcreteacc.com>

Dywidag-Systems International posttensioning systems: <http://www.dsiamerica.com>

Molded Fiber Glass Construction Products Co. formwork: <http://www.mfgcp.com>

Symons Corp. formwork: <http://www.symons.com>

CHAPTER 15

Precast Concrete Framing Systems

Author's supplementary web site:

http://www.ianosbackfill.com/15_precast_concrete_framing_systems/

Altus Group carbon reinforced precast concrete: <http://www.altusprecast.com>

Dayton Superior: <http://www.daytonconcreteacc.com>

Precast/Prestressed Concrete Institute (PCI): <http://www.pci.org>

Spancrete: <http://www.spancrete.com>

CHAPTER 16

Roofing

Author's Supplementary Website: http://www.ianosbackfill.com/16_roofing/

Low-Slope Roofs

Asphalt Roofing Manufacturers Association: <http://www.asphaltroofing.org>

Carlisle SynTec: <http://www.carlisle-syntec.com>

Firestone Building Products: <http://www.firestonebpc.com>

National Roofing Contractors Association: <http://www.nrca.net>

Polyisocyanurate Insulation Manufacturers Association: <http://www.polyiso.org>
Whole Building Design Guide, Roofing Systems: http://www.wbdg.org/design/env_roofing.php

Steep Roofs

Asphalt Roofing Manufacturers Association: <http://www.asphaltroofing.org>
Cedar Shingle and Shake Bureau: <http://www.cedarbureau.org>
CertainTeed Roofing Products: <http://www.certainteed.com>
Copper Development Association: <http://www.copper.org>
GAF Roofing Products: <http://www.gaf.com>
Metal Construction Association: <http://www.metalconstruction.org>
Sheet Metal and Air Conditioning Contractors National Association: <http://www.smacna.org>
Umicore Building Products (zinc roofing): <http://www.vmzinc-us.com>

Cool Roofs

Cool Metal Roofing Coalition: <http://www.coolmetalroofing.org>
Cool Roof Rating Council: <http://www.coolroofs.org>
Cool Roofing Materials Database: <http://www.eetd.lbl.gov/coolroofs/>

Green Roofs

Green Roofs for Healthy Cities: <http://www.greenroofs.org>

Photovoltaic Roofs

Renewable Resource Data Center (RReDC): <http://www.rredc.nrel.gov>

CHAPTER 17

Glass and Glazing

Author's Supplementary Website: http://www.ianosbackfill.com/17_glass_and_glazing/
Cardinal Glass: <http://www.cardinalcorp.com>
Corning Museum of Glass: <http://www.cmog.org>
Glass Association of North America: <http://www.glasswebsite.com>
Nathan Allan Glass Studios: <http://www.nathanallan.com>
National Glass Association: <http://www.glass.org>
Pilkington: <http://www.pilkington.com>
Pilkington Planar: <http://www.pilkington.com/planar/>
PPG Industries: <http://www.corporateportal.ppg.com/NA/IdeaScapes/GlassOverview.htm>
TGP Fire Rated Glass and Framing: <http://www.fireglass.com>
Whole Building Design Guide, Glazing: http://www.wbdg.org/design/env_fenestration_glz.php

CHAPTER 18

Windows and Doors

Author's Supplementary Website: http://www.ianosbackfill.com/18_windows_and_doors/

American Architectural Manufacturers Association: <http://www.aamanet.org>
Andersen Windows: <http://www.andersenwindows.com>
Ceco Steel Doors: <http://www.cecodoor.com>
Hollow Metal Manufacturers Association: <http://www.naamm.org/hmma/>
Hope's Steel Windows & Doors: <http://www.hopeswindows.com>
Impact Grade Windows (EFCO Corporation): <http://www.impactgrade.com>
Marvin Windows: <http://www.marvin.com>
Morgan Wood Doors: <http://www.morgancorp.com>
National Fenestration Rating Council: <http://www.nfrc.org>
Steel Door Institute: <http://www.steeldoor.org>
Steel Window Institute: <http://www.steelwindows.com>
Window & Door Manufacturers Association: <http://www.wdma.com>
Windows and Daylighting (Lawrence Berkeley National Laboratory): <http://www.windows.lbl.gov>
Window Systems for High-Performance Buildings (Center for Sustainable Building Research):
<http://www.commercialwindows.umn.edu> Efficient Windows Collaborative:
<http://www.efficientwindows.org>
Whole Building Design Guide, Windows: http://www.wbdg.org/design/env_fenestration_win.php

CHAPTER 19

Designing Exterior Wall Systems

Author's Supplementary Website: http://www.ianosbackfill.com/19_designing_cladding_systems/
Dow-Corning sealants: <http://www.dowcorning.com>
GE sealants: <http://www.gesealants.com>
Institute for Research in Construction: <http://www.nrc.ca/irc/ircpubs>
Whole Building Design Guide—Wall Systems: http://www.wbdg.org/design/env_wall.php

CHAPTER 20

Cladding with Masonry and Concrete

Author's Supplementary Website:
http://www.ianosbackfill.com/20_cladding_with_masonry_and_concrete/
Brick Industry Association: <http://www.bia.org>
Dry-Vit Systems: <http://www.dryvit.com>
EIFS Industry Members Association: <http://www.eima.com>
Precast/Prestressed Concrete Institute: <http://www.pci.org>
Whole Building Design Guide, Wall Systems: http://www.wbdg.org/design/env_wall.php

CHAPTER 21

Cladding with Metal and Glass

Author's Supplementary Website:

http://www.ianosbackfill.com/21_cladding_with_metal_and_glass/

Aluminum Extruders Council: <http://www.aec.org>

American Architectural Manufacturers Association: <http://www.aamanet.org>

Centria curtain wall: <http://www.centria.com/CAS/>

EFCO curtain wall: <http://www.efcocorp.com>

Formacore Curtain Walls: http://www.portafab.com/curtain_walls.shtml

Kawneer curtain wall and windows: <http://www.kawneer.com>

Whole Building Design Guide, Curtain Walls:

http://www.wbdg.org/design/env_fenestration_cw.php

CHAPTER 22

Selecting Interior Finishes

Author's Supplementary Website: http://www.ianosbackfill.com/22_selecting_interior_finishes/

Greenguard Environmental Institute: <http://www.greenguard.org>

CHAPTER 23

Interior Walls and Partitions

Author's Supplementary Website: http://www.ianosbackfill.com/23_interior_walls_and_partitions/

Dietrich Metal Framing: <http://www.dietrichindustries.com>

Drywallrecycling.org: <http://www.drywallrecycling.org>

Georgia-Pacific: <http://www.gp.com/build/>

Gypsum Association: <http://www.gypsum.org>

Marble Institute of America: <http://www.marble-institute.com>

National Gypsum: <http://www.national-gypsum.com>

Portland Cement Association: <http://www.pca.org>

Temple-Inland: <http://www.temple.com/gypsum/>

Tile Council of North America (TCNA): <http://www.tileusa.com>

USG: <http://www.usg.com>

CHAPTER 24

Finish Ceilings and Floors

Author's Supplementary Website: http://www.ianosbackfill.com/24_finish_ceilings_and_floors/

Armstrong Floors and Ceilings: <http://www.armstrong.com>

Carpet and Rug Institute (CRI): <http://www.carpet-rug.com>
Ceilings and Interior Systems Construction Association: <http://www.cisca.org>
Forbo Floor Coverings: <http://www.themarmoleumstore.com>
H. H. Robertson: <http://www.hhrobertson.com>
Mannington Floors: <http://www.mannington.com>
Maple Flooring Manufacturers Association (MFMA): <http://www.maplefloor.org>
Marble Institute of America (MIA): <http://www.marble-institute.com>
National Oak Flooring Manufacturers Association (NOFMA): <http://www.nofma.org>
National Terrazzo & Mosaic Association (NTMA): <http://www.ntma.com>
National Wood Flooring Association (NWFA): <http://www.nwfa.org>
NSF International (for NSF 140 Sustainable Carpet Assessment Standard): <http://www.nsf.org>
Resilient Floor Covering Institute (RFI): <http://www.rfci.com>
Tile Council of North America (TCNA): <http://www.tileusa.com>