

# Final Design Checklist

| Criteria                             |                                                                  | Requirements                                                                                                                                                                                                              | Confirm Planned Compliance | Required Documentation                                         |
|--------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------|
| <b>Building Envelope</b>             |                                                                  |                                                                                                                                                                                                                           |                            |                                                                |
| A1                                   | Wall Insulation                                                  | Above Ground: Min. ETR = R30 (5.28)<br>Below Ground: Min. ETR = R20 (3.52)                                                                                                                                                | <input type="checkbox"/>   | Complete assembly drawings with effective R value calculations |
| A2                                   | Roof Insulation                                                  | Flat Roof: ETR R40 (7.04)<br>Peaked Roofs - Ceiling below Attic: ETR R68 (12)                                                                                                                                             | <input type="checkbox"/>   | Complete assembly drawings with effective R value calculations |
| A3                                   | Floor Insulation                                                 | Over Heated Space: Min. ETR = R35 (6.17)<br>Unheated Floors below and above frost line: Min. ETR = R31.1 (5.96)<br>Heated Floors below grade and in contact with ground: Min. ETR = R21.1 (3.72)                          | <input type="checkbox"/>   | Complete assembly drawings with effective R value calculations |
| A4                                   | Airtightness                                                     | Buildings following ABC Part 9: 1.5 ACH @ 50Pa<br>Buildings following NECB: 0.25LU/m² @ 50Pa                                                                                                                              | <input type="checkbox"/>   | Envelope air barrier details                                   |
| A5                                   | Window Thermal Transmittance                                     | Max U2i = 1.6                                                                                                                                                                                                             | <input type="checkbox"/>   | Window schedule on drawings or from supplier                   |
| A6                                   | Window to Wall Ratio                                             | Max WWR = 60%                                                                                                                                                                                                             | <input type="checkbox"/>   | Calculation of window to wall ratio                            |
| <b>Energy Systems</b>                |                                                                  |                                                                                                                                                                                                                           |                            |                                                                |
| B1                                   | Heat Recovery Ventilator Effectiveness                           | HRV's with min effectiveness of 80% for all units.                                                                                                                                                                        | <input type="checkbox"/>   | HRV cutsheet or note on drawings for performance of HRV        |
| B2                                   | Heat Recovery Ventilator Preheat                                 | No electric preheat, use HRV with built-in defrost for frost control.                                                                                                                                                     | <input type="checkbox"/>   | HRV cutsheet or note on drawings for performance of HRV        |
| B3                                   | Sealed Ductwork                                                  | Seal ductwork thoroughly along all seams, joints, connections, penetrations, etc.                                                                                                                                         | <input type="checkbox"/>   | None                                                           |
| B4                                   | Circulation Pumps (where hydraulic heating systems are provided) | Use variable speed circulation pumps. For Hydronic Loops serving HP, reduce pump speed when less than full flow is needed.                                                                                                | <input type="checkbox"/>   | None                                                           |
| B5                                   | Heating Controls                                                 | Provide smart room thermostats that are programmable, self-adjusting, have occupancy detection, etc.                                                                                                                      | <input type="checkbox"/>   | None                                                           |
| <b>Sustainable Building Features</b> |                                                                  |                                                                                                                                                                                                                           |                            |                                                                |
| C1                                   | Water Efficient Fixtures and Fittings                            | Maximum flow rates:<br>• WCs: 4.2 litres per flush or 6/3 litre dual flush<br>• Lavatory faucets: 5.7 litres per minute<br>• Kitchen faucets: 6.8 litres per minute<br>• Showerheads: 7.5 litres per minute               | <input type="checkbox"/>   | None                                                           |
| C2                                   | Water Efficient Appliances                                       | Water Efficiency standards:<br>• Clothes washers to be Energy Star front-loading or condensing combination wash/dry units less than 25 litres/cycle/cubic foot.<br>• Dishwashers to use less than 20 L of water per load. | <input type="checkbox"/>   | None                                                           |
| C3                                   | Energy Efficient Appliances                                      | Major appliances shall be "Energy Star" rated, including:<br>• Fridge<br>• Dishwasher<br>• Stove<br>• Washing Machine/Dryer                                                                                               | <input type="checkbox"/>   | None                                                           |
| C4                                   | Air Filtration                                                   | Install minimum MERV 8 air filtration on all central air handling systems.                                                                                                                                                | <input type="checkbox"/>   | Drawings indicating requirements                               |
| C5                                   | Solar-ready Trusses                                              | Provide photovoltaic certified trusses for peaked roofs.                                                                                                                                                                  | <input type="checkbox"/>   | None                                                           |
| C6                                   | Post Construction Building Flush                                 | After all construction and prior to occupancy perform a full building flush for at least 48 hours at maximum outdoor air setting.<br>Provide new filters in the air handler after the flush is complete.                  | <input type="checkbox"/>   | None                                                           |
| C7                                   | Construction Waste Reduction                                     | Include a comprehensive recycling program during construction including education, site signage and separate bins for at least cardboard, wood and drywall.                                                               | <input type="checkbox"/>   | None                                                           |

# Green Building Checklist

**RM Cervero**



## **Green Building Checklist:**

**Choosing Green** Jerry Yudelson, 2008-05-01 Energy efficient non toxic healthy homes are the hottest trend in the building industry Homebuilders are constructing green homes in astonishing numbers nearly 200 000 in the US alone in 2006 How does a home buyer who wants a green home know what to look for what questions to ask a builder which green home rating systems to trust and what homes are on the market Nationally recognized green building expert Jerry Yudelson provides answers to some common areas of concern including Energy efficient home features Water conservation fixtures Non toxic finishes Green products Healthy indoor air Drawing from the expertise of dozens of homebuilders government officials and green home experts Choosing Green deftly takes the reader through these considerations with easy to use tables charts maps score sheets and checklists The book includes a glossary of green building terms an extensive resource section and a list of homebuilders green rating programs and financial incentives This comprehensive book provides homebuyers with everything they will need to make a successful search for their own green home **ICSBE 2022** Ranjith Dissanayake, Priyan Mendis, Kolita Weerasekera, Sudhira De Silva, Shiromal Fernando, Chaminda Konthesingha, Pradeep Gajanayake, 2023-08-09 This book highlights the latest knowledge and innovations in the fields of civil engineering and construction industry striving for a sustainable built environment It consists of high quality and innovative research findings selected from the proceedings of the 13th ICSBE 2022 under the themes of sustainable construction urban green infrastructure and planning rainwater harvesting and water conservation high performance concrete indoor environmental quality and indoor plants wind and hydro power energy waste and wastewater management for enhanced sustainability impacts of climate change carbon footprint global climate model and landscaping material flows and industrial ecology sustainable materials etc *Greening Spaces for Worship and Ministry* Mark A. Torgerson, 2012-05-04 Greening Spaces for Worship and Ministry is a comprehensive guide The book provides a rationale strategies and resources for fulfilling environmental stewardship through the land and buildings of Christian and Jewish congregations New construction renovation and historic preservation projects are addressed Site development material choices energy generation and consumption water use interior air quality green cleaning programs and beauty are discussed Ten congregations from across the United States and Canada are featured as examples of excellence in creation care in and through their built environments *Guide to Green Building Rating Systems* Linda Reeder, 2010-03-29 The one stop guide for choosing a green building rating system Today sustainability is a growing concern for the architects designers builders and owners of commercial and residential buildings Meeting the requirements of a rating system provides a metric to evaluate and set priorities But the variety and complexity of methods available to assess the eco friendliness of a building can seem overwhelming Guide to Green Building Rating Systems informs readers about the rating system selection process Comparing essential issues such as cost ease of use and building performance this book offers solid guidance that will help readers find

the rating system that best fits their needs This easy to follow reference includes An overview of the major national rating systems including LEED Green Globes the National Green Building Standard and ENERGY STAR An in depth look at each rating system including its evolution objectives point structure levels of certification benefits and shortcomings How the ratings systems work for different types of buildings commercial multi family residential and single family residential construction Illustrated case studies from different climate regions with project descriptions cost data and lessons learned by design teams constructors and owners An overview of local regional and international rating systems Guide to Green Building Rating Systems demystifies complex material making this book an essential reference for building professionals engaged in or wishing to pursue sustainable building practices *Principles of Building Commissioning* Walter T. Grondzik,2009-03-03 Commissioning is coming of age Savvy building owners have adopted commissioning as an effective way to improve the facility acquisition process Green building initiatives have embraced commissioning as a way of assuring quality in the delivery of high performance buildings This long established quality control process for building mechanical systems is emerging as a broader construction management tool improving nearly all aspects of a project What exactly is this thing called commissioning *Principles of Building Commissioning* answers this fundamental question with the first all inclusive practical guide to the application of the principles of commissioning The book clarifies the underlying philosophy of commissioning the why what when and who of this process Shaped by the ASHRAE Guideline 0 view of the world of commissioning *Building Commissioning Maps* out the territory of commissioning Outlines its defining characteristics Explains its flow of processes Demystifies its documentation Making the fundamentals of commissioning accessible to all parties building owners and operators architects and engineers users and suppliers who may be called upon to join the commissioning team for a particular project *Building Commissioning* serves as the professional s road map to the commissioning process from the predesign phase through occupancy *Green Buildings Checklist* British Columbia. Ministry of Finance and Corporate Relations,2000 **LEED Practices, Certification, and Accreditation Handbook** Sam Kubba,2009-09-23 Adopted in the United States and a number of other countries LEED certification is the recognized standard for measuring building sustainability Achieving LEED personal certification or project certification is the best way to demonstrate that the project is truly green Written by an architect with over 30 years of international experience this book provides architects designers building owners and construction engineers with an easy to understand guide to the nuts and bolts of LEED project and personal certification Written in plain and easy to understand language this hands on book is designed to assist readers with all aspects of LEED certification The handbook follows the rigorous third party commissioning process beginning with basic LEED concepts and then carefully explains LEED documentation and technical requirements along with its standards professional accreditation and codes The handbook provides readers with design strategies for sustainable site selection and design process for high performance building and commissioning Other

important topics include green materials and products selection as well as strategies for ensuring Indoor Environmental Quality IEQ water efficiency and sanitary waste disposal This handbook also offers readers a multitude of forms with expert guidance for their completion Clear and authoritative in scope LEED Practices Certification and Accreditation Handbook provides architects builders owners construction managers and engineers with a reference that will help them to offer their clients peers and the public at large compelling proof that they have achieved their projects environmental goals and that the building is performing as designed Instruction for completing LEED checklist and forms Detailed explanation of the third party commissioning process Explains LEED documentation technical requirements Topics include green materials and products selection

A State-by-state Guide to Construction & Design Law Carl J. Circo, Christopher H. Little, 2009 This is THE book you need if you re involved in multi state construction and design projects It outlines essential information about design and construction law and contracting in all 50 states plus DC and Puerto Rico Information follows a standard format offering quick comparisons of how different jurisdictions treat the same issue Topics include licensing and regulation mechanic s liens financing consumer protection ADR environmental matters and statutory and case law governing contracting practices *Journal of the House of Representatives of the United States* United States. Congress. House, 2008

Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House

*Sustainable Buildings and Infrastructure* Annie R. Pearce, Yong Han Ahn, Ltd HanmiGlobal Co, 2017-12-14 The second edition of Sustainable Buildings and Infrastructure continues to provide students with an introduction to the principles and practices of sustainability as they apply to the construction sector including both buildings and infrastructure systems As a textbook it is aimed at students taking courses in construction management and the built environment but it is also designed to be a useful reference for practitioners involved in implementing sustainability in their projects or firms Case studies best practices and highlights of cutting edge research are included throughout making the book both a core reference and a practical guide

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MBTI For Team Building Activity Templates - TeamDynamics Learn how to use MBTI for team building with a free set of workshop templates to help you hold an impactful MBTI team dynamics and MBTI team building activity. Step-by-Step Guide on How To Use Myers-Briggs in Team ... Step 3: Apply knowledge in team building activities. · Play Ups & Downs Ups and Downs is an activity designed to learn more about teammates' motivators. · Have an ... Team Building with Myers-Briggs—Building a Home Out of ... One of my favorite activities is demonstrating this to naysayers who equate MBTI to astrology, so here's a simple team building activity you can use when ... Ideas for group/team building activities using MBTI Hi all,. I want to introduce my group of friends to the MBTI and they have all agreed to participate in some sort of activity altogether. MBTI Team Development Activities Feb 24, 2023 — 36 HR Training & Consultancy uses a variety of fun team building and team development learning activities as well as interesting games to help ... Free type exercises for practitioners - Myers-Briggs Apr 10, 2015 — A wide range of exercises for use in MBTI® based training sessions. These resources equip MBTI practitioners with group-based activities that ... Team Building Activities | CPP ... (MBTI) assessment and conduct a team building workshop around their assessment results. ... Specific reports such as the MBTI® Comparison Report: Work Styles ... MBTI Team Development Activity Jul 29, 2020 — MBTI team development activity to try in your virtual workshops. Designed to help groups increase self-awareness. Team building activities with MBTI types - marc-prager.co.uk Scavenger hunts: In this team building activity, participants work in teams to find and collect items or complete tasks on a list. This exercise will encourage ... Service Manual PDF - XBimmers | BMW X3 Forum Jun 9, 2020 — Service Manual PDF First Generation BMW X3 General Forum. Digital Owner's Manual Everything you need to know about your BMW. Get the Owner's Manual for your specific BMW online. Repair Manuals & Literature for BMW X3 Get the best deals on Repair Manuals & Literature for BMW X3 when you shop the largest online selection at eBay.com. Free shipping on many items | Browse ... Repair manuals and video tutorials on BMW X3 BMW X3 PDF service and repair manuals with illustrations · How to change engine oil and filter on BMW E90 diesel - replacement guide · How to change fuel filter ... BMW X3 (E83) Service Manual: 2004, 2005, 2006, 2007 ... The BMW X3 (E83) Service Manual: 2004-2010 contains in-depth maintenance, service and repair information for the BMW X3 from 2004 to 2010. BMW X3 Repair Manual - Vehicle Order BMW X3 Repair Manual - Vehicle online today. Free Same Day Store Pickup. Check out free battery charging and engine diagnostic testing while you are ... BMW X3 Service & Repair Manual BMW X3 Service & Repair Manual · Brake pad replacement reminder · Emissions maintenance reminder · Maintenance service reminder · Tire pressure monitor system ... BMW X3 Repair Manuals

Parts BMW X3 Repair Manuals parts online. Buy OEM & Genuine parts with a Lifetime Warranty, Free Shipping and Unlimited 365 Day Returns. BMW X3 (E83) Service Manual: 2004, 2005, 2006, 2007 ... Description. The BMW X3 (E83) Service Manual: 2004-2010 contains in-depth maintenance, service and repair information for the BMW X3 from 2004 to 2010. BMW X3 (E83) 2004-2010 Repair Manual The BMW X3 (E83) Service Manual: 2004-2010 contains in-depth maintenance, service and repair information for the BMW X3 from 2004 to 2010. Neurosis and Human Growth: The Struggle Towards Self- ... In Neurosis and Human Growth, Dr. Horney discusses the neurotic process as a special form of the human development, the antithesis of healthy growth. She ... Neurosis and Human Growth This development and its consequences for the adult personality are what Horney calls neurosis. Horney devotes thirteen chapters to an analysis of the neurotic ... Neurosis and Human Growth | Karen Horney ... Human Growth, The Struggle Towards Self-Realization, Karen Horney, 9780393307757. ... In Neurosis and Human Growth, Dr. Horney discusses the neurotic process as a ... NEUROSIS HUMAN GROWTH KAREN HORNEY, M.D.. NEUROSIS. AND. HUMAN GROWTH. The Struggle Toward. Self-Realization. Neurosis and human growth; the struggle toward self- ... by K Horney · 1950 · Cited by 5872 — Horney, K. (1950). Neurosis and human growth; the struggle toward self-realization. W. W. Norton. Abstract. Presentation of Horney's theory of neurosis ... Neurosis And Human Growth: The Struggle Toward Self- ... Buy Neurosis And Human Growth: The Struggle Toward Self-Realization on Amazon.com ☐ FREE SHIPPING on qualified orders. Neurosis And Human Growth: THE STRUGGLE TOWARD ... In Neurosis and Human Growth, Dr. Horney discusses the neurotic process as a special form of the human development, the antithesis of healthy growth. Episode 148: Karen Horney: Neurosis And Human Growth May 20, 2022 — In a cyclical fashion, neurosis could be influenced by neuroses in the caretakers of a child. If a caretaker is consumed by their own inner ... Neurosis and Human Growth Neurosis and human growth: The struggle toward self-realization. New York: W. W. Norton. Bibliography. Horney, Karen. (1937). The neurotic personality of our ...