

# Final Design Checklist

Criteria		Requirements	Confirm Planned Compliance	Required Documentation
<b>Building Envelope</b>				
A1	Wall Insulation	Above Ground: Min. ETR = R30 (5.28) 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) Peaked Roofs - Ceiling below Attic: ETR R66 (12)	<input type="checkbox"/>	Complete assembly drawings with effective R value calculations
A3	Floor Insulation	Over Heated Space: Min. ETR = R35 (6.17) Unheated Floors below and above frost line: Min. ETR = R11.1 (1.96) 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 Buildings following NECB: 0.25L/s m <sup>2</sup> @ 5Pa	<input type="checkbox"/>	Envelope air barrier details
A5	Window Thermal Transmittance	Max U2 = 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 Fixings	Maximum flow rates: • WCs: 4.2 litres per flush or 6/3 litre dual flush • Lavatory faucets: 5.7 litres per minute • Kitchen faucets: 6.8 litres per minute • Showerheads: 7.5 litres per minute	<input type="checkbox"/>	None
C2	Water Efficient Appliances	Water Efficiency standards: • Clothes washers to be Energy Star front-loading or condensing combination wash/dry units less than 25 litres/cycle/cubic foot. • 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: • Fridge • Dishwasher • Stove • 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. 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

# Checklist Green Building

**RS Peters**



## **Checklist Green Building:**

*Green Building* Andrea Keenan, Danielle Georges, 2002 A guide to estimating designing and building sustainable construction

**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

California Green Building Standards Code California Building Standards Commission, 2010-05-15 The nation's first mandatory green building code is here stay ahead of the game by knowing it The California Green Building Standards Code CGBSC also referred to as CALGreen contains regulations for energy efficiency water efficiency and conservation material conservation and resource efficiency environmental quality and more It includes mandatory provisions for a variety of types of buildings from commercial and low rise residential to public schools And the code's valuable appendices include voluntary provisions for all of these occupancies and add hospitals Logically organized with residential and non residential provisions in separate chapters the 2010 CA GREEN BUILDING STANDARDS CODE TITLE 24 PART 11 is informative thorough and most of all easy to use Check out our app DEWALT Mobile Pro™ This free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add-ons To learn more visit dewalt.com/mobilepro

**Journal of the House of Representatives of the United States** United States. Congress. House, 2009 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

Green Buildings Checklist British Columbia. Ministry of Finance and Corporate Relations, 2000

**Congressional Record** United States. Congress, 2008 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

**Land Use Institute, Planning, Regulation, Litigation, Eminent Domain, and Compensation**, 2010

**"Code of Massachusetts regulations, 2016"**, 2016 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

"Code of Massachusetts regulations, 2015", 2015 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law

Library of Massachusetts as of January 2020     **"Code of Massachusetts regulations, 2014"** ,2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

**"Code of Massachusetts regulations, 2013"** ,2013 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     *"Code of Massachusetts regulations, 2012"* ,2012 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     **"Code of Massachusetts regulations, 2009"** ,2009 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

**The Engineering Guide to LEED-New Construction: Sustainable Construction for Engineers (GreenSource)** Liv Haselbach,2010-08-09 An Up to Date Guide to the Latest LEED New Construction Guidelines Fully revised for version 3 0 of the LEED New Construction rating system LEED 2009 this GreenSource book helps you acquire the skills needed to apply LEED NC to sustainable construction projects The Engineering Guide to LEED New Construction second edition offers comprehensive coverage of the environmental systems and impacts on which many of the LEED NC subcategories are based Detailed equations and exercises in the book can be used to perform the calculations outlined in LEED NC Valuable information on real world applications of LEED NC in military low impact development LID and other sectors is included in this practical resource THE ENGINEERING GUIDE TO LEED NEW CONSTRUCTION COVERS Introduction to the U S Green Building Council s LEED NC rating system Sustainable sites Water efficiency Energy and atmosphere Materials and resources Indoor environmental quality Innovation in design and regional priorities A systematic view of green and minimum program requirements Department of Defense sustainable construction and indoor air quality IAQ Low impact development

*"Code of Massachusetts regulations, 2008"* ,2008 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     *"Code of Massachusetts regulations, 2007"* ,2007 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     **"Code of Massachusetts regulations, 2006"** ,2006 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     **"Code of Massachusetts regulations, 2004"** ,2004 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     *"Code of Massachusetts regulations, 2005"* ,2005 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     *The Massachusetts register* ,2003

## Enjoying the Beat of Term: An Mental Symphony within **Checklist Green Building**

In a world taken by displays and the ceaseless chatter of instant connection, the melodic elegance and psychological symphony produced by the prepared word frequently disappear in to the backdrop, eclipsed by the persistent sound and distractions that permeate our lives. But, situated within the pages of **Checklist Green Building** a marvelous literary treasure full of organic emotions, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, that charming masterpiece conducts viewers on an emotional trip, skillfully unraveling the concealed tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of the touching assessment, we will examine the book is main harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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web an in depth review of the film manon des sources 1986 aka manon of the spring directed by claude berri featuring yves montand daniel auteuil emmanuelle beart

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web amazon com manon des sources 1 16 of 176 results for manon des sources results amazon s choice jean de florette manon of the spring double feature 4 7 453 dvd 6295 free delivery dec 14 16 or fastest delivery tue dec 13 arrives before christmas only 1 left in stock order soon more buying choices 15 70 18 used new offers

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web jean de florette and manon des sources manon of the spring is a 1986 french movie duology concerning a city man and his family after they inherit a plot of land rich in resources in provence southern france they are adaptations  
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web apr 17 2019 in the sequel manon des sources manon beart has grown into a beautiful young shepherdess living in the idyllic provencal countryside she determines to take revenge upon the men responsible for the death of her father in the first film

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web see all reviews the timeless story continues in the award winning sequel to jean de florette jean s daughter manon has grown up in to a beautiful and free spirited young shepherdess on her father s provence farm

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web jean de florette and manon des sources both originally published in 1963 and first published in english in 1966 are set in the hills of provence in southern france in the early twentieth century and together tell a tale of deception betrayal and revenge both books were filmed in 1986

**manon des sources 1986 film wikipedia** - Oct 03 2023

web manon des sources french pronunciation manɔ̃ de suʁs meaning manon of the springs is a 1986 french language period film directed by claude berri it is the second of two films adapted from the 1966 two volume novel by marcel pagnol who wrote it based on his own earlier film of the same title

[manon des sources the university of warwick](#) - Feb 12 2022

web jean de florette and manon des sources launched the contemporary heritage genre in french cinema part of a postmodern tourism stella artois heritage films emerged in france and uk in 1980s attempt to be historically and topographically accurate the costume dramas of the 50s and 70s concentrated on narrative here there is a change in

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web jun 29 1995 manon des sources directed by marcel pagnol with edmond ardisson henri arius andré bervil charles blavette to avenge her father s death manon blocks the source of water for local villagers

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web the original version of manon des sources directed by marcel pagnol tells the story of manon a girl living in the mountains who decides to block the spring supplying the water to the village manon wants to have revenge on the inhabitants of the village that ignored her father when he was killing himself to find precious water for his own land

**manon des sources film 1986 wikipédia** - May 18 2022

web manon des sources est un film dramatique franco helvético italien réalisé par claude berri sorti en 1986 adapté du deuxième tome homonyme du diptyque romanesque l'eau des collines de marcel pagnol le film est la suite de jean de florette sortie la même année

**manon des sources 1986 trailer youtube** - Sep 21 2022

web jun 21 2009 manon des sources 1986 trailer imdb com title tt0091480 claude berriyves montand daniel auteuil

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web manon des sources may refer to manon des sources 1952 film a french film directed by marcel pagnol or the novel he published in 1962 manon des sources 1986 film a french film directed by claude berri this disambiguation page lists articles associated with the title manon des sources

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web the equally extraordinary award winning sequel to jean de florette continues the timeless story with the late jean de florette s daughter manon now grown up into a beautiful and

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web dec 31 2014 scénario claude berri et gérard brach d après le roman éponyme de marcel pagnol genre film dramatique date de sortie 19 novembre 1986 plusieurs années après la mort de jean de florette ugolin soubeyran prospère sur son lieu dit perché sur un coteau les romarins

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web sep 10 2012 ten years after jean s death in this continuation of pagnol s novel l'eau des collines his 18 year old daughter manon béart still haunts the hills overlooking the farm stolen from her

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web manon des sources takes place some ten years after jean de florette also in the village of les bastides and the surrounding hills ugolin s carnation growing business is prospering as inferred when he sells his flowers to a

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web the water of the hills l'eau des collines is the collective name for two novels by marcel pagnol jean de florette and manon des sources both originally published in 1963 and first published in english in 1966 the latter translation under the title manon of the springs

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web synopsis after the death of jean cadoret his wife has returned to the life of opera singer and his daughter manon has grown up and become a gorgeous lonely shepherdess ugo is now a thirty year old wealthy bachelor planting carnations his grandfather cesar soubeyran presses him to get married to carry the name of their family since he is

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web manon des sources although he was the villain of jean de florette the first part of claude berri's sumptuously tragic adaptation of marcel pagnol's novel the water in the hills

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web nov 24 2021 by using zemax software the size and position changes of the imaging light spot of the micro lens array in the case of incident at different field of view angles are compared and analyzed and the structural parameters are optimized a 64 64 si refracted micro lens array is designed and manufactured

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web design and optimization of microlens array based high resolution beam steering system ata akatay and hakan urey department of electrical engineering koc university sariyer istanbul 34450 turkey hurey ku.edu.tr abstract high resolution imaging and beam steering using 3 microlens arrays mla is demonstrated

*optical design of microlens array for cmos image sensors* - Dec 27 2021

web in order to reduce the optical crosstalk and improve the fill factor of cmos image sensor a microlens array has been designed and integrated with cmos the initial parameters of the microlens array have been calculated according to the structure of a cmos

*microlens array in sequential mode zemax community* - Aug 15 2023

web sep 1 2021 you may find more information and sample files about the two common applications of microlens arrays that david mentioned here for 1 to increase the collection of pixelated detectors please see the lenslet array sample file in the documents zemax samples physical optics folder

*fly's eye arrays for uniform illumination in digital projector optics* - Oct 05 2022

web mar 31 2021 a fly's eye array is a two dimensional array of individual optical elements assembled into a single optical element it is used to spatially transform light from a nonuniform distribution to a uniform irradiance distribution at the image plane

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web sep 5 2022 zemax files click on the red document icon next to the item numbers below to access the zemax file  
download our entire zemax catalog is also available features polymethyl methacrylate pmma substrate 10 0 mm x 9 8 mm  
high quality microlens array available unmounted or in a Ø1 mount offered uncoated or broadband ar coated

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web dec 19 2022 i want to simulate a aspherical surface with aspheric coefficients 2 4 6 8 10 12 14 16 as a microlens array  
the lenses have a rectangular shape and the aspheric terms are only in one axis do you know which is the best solution for  
building such an lens array for aspheric surfaces

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web mar 31 2021 the rectangular array allows you to define 1d or a 2d array with a defined number of sources in the x and  
y axis the options available include the number of sources in x and y and the source to source spacing in lens units along  
each direction

*applied sciences free full text fabrication and optical mdpi* - Aug 03 2022

web dec 25 2020 the microlens array relying on its small structure wide field of view and high resolution plays an essential  
role in optical sensing optical communication fiber coupling and non imaging optics 1 microlens arrays can be divided into  
flat microlens arrays and curved microlens arrays 2

[manufacturing of a precision 3d microlens array on a steep](#) - Mar 30 2022

web jun 1 2013 the design of the individual lenslets was performed using zemax this 3d microlens array in this study  
contains 1219 microlenses that are evenly distributed on its concave surface with a high fill factor the overall field of view of  
this microlens array on curved substrates is more than 104

**resolution in an imaging system with a microlens array zemax** - Nov 06 2022

web c christos katopodis student 0 replies is there a way to find the resolution of a system that uses a microlens array mla for  
imaging in sequential mode using the spot size airy disc or mtf doesnt seem to work with arrays i used the user defined dll  
for building the mla opticstudio system analysis

**exploring physical optics propagation pop in opticstudio** - Jan 28 2022

web mar 31 2021 open the file zemax samples physical optics lenslet array zmx this file demonstrates the propagation of a  
top hat beam through a rectangular array of spherical lenses the array is modeled on surface 2 which is defined using a

[how to use pop with lenslet arrays knowledgebase](#) - Jun 13 2023

web mar 31 2021 how to use pop with lenslet arrays march 31 2021 00 53 this article explains how to configure the physical  
optics propagation calculation to account for propagation through a lenslet array it also gives some useful setup information

when using pop in tricky systems

**microlens array zemax community** - May 12 2023

web lenslet arrays are modeled using the user defined surface basically the ray trace determines which segment of the array is struck then uses the local lens curvature to determine the refraction the sample source code and dll are provided as us array c and us array dll respectively

**a microlens array with different focal lengths fabricated by roll** - Jan 08 2023

web zemax 1 introduction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones<sup>1</sup> solar concentrators<sup>2</sup> data storage<sup>3</sup> and integral imaging 3d displays<sup>4</sup> etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern<sup>5</sup> the

optimize the microlens array in hybrid nsc sc model zemax - Dec 07 2022

web i set up a hybrid model including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a uniform line transversely perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coefficient parameters to achieve the best line uniformity and smallest line width

**ultrawide angle and high efficiency metalens in hexagonal arrangement** - Jun 01 2022

web sep 24 2020 microlens arrays are the key component in imaging systems because the systems exhibit some excellent optical properties such as large fov angles and low aberration and distortion 6 zemax llc

*single mode fiber coupling in opti studio knowledgebase* - Jul 02 2022

web mar 31 2021 zemax llc thanks dr reinhard voelkel of suss microoptics sa for the experimental data used in this article setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using suss microoptics fc q 250 microlens arrays the manufacturer's data is as follows

microlens arrays solar concentrator design using zemax - Feb 26 2022

web nov 3 2015 with optical sensor arrays tiny lens systems serve to focus and concentrate the light onto the photodiode surface instead of allowing it to fall on non photosensitive areas of the pixel device fill factor area occupied by the microlens arrays mostly the lens shape is cylindrical or spherical array size strongly depends on the applications

*lens array zemax community* - Mar 10 2023

web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax

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