AIA CA RESILIENT DESIGN COMMITTEE + AIA CA DISASTER ASSISTANCE NETWORK

## **VETTED LIST OF RESILIENCE RESOURCES**

**Last Update** 

9/4/2024

This list is composed of top rated resources vetted or authored by respected agencies. It is a living document updated on a regular basis. The vetting agencies and dates of publication are listed below. Unless authored by AIA and/or AIA California they are not responsible for the content of these resources.

DISASTER ASSISTANCE		Disaster Cycle Overview	cycle Overview DRAFT					
1	Oct modes of an distance section	Quick Guide: AIA Disaster Assistance Handbook, 4th Edition, (PDF, 1 page)	Quick overview of Risk & Vulnerability, Mitigation, Preparedness, Response, and Recovery	AIA . American Institute of Architects	1	Disaster_Assistance_Fourth_Ed_Quickguide.pdf (aia.org)		
2	Disaster Assistance Handbook	AIA Disaster Assistance Handbook, 4th Edition, (PDF, 183 pages)	Comprehensive handbook addressing Risk & Vulnerability, Mitigation, Preparedness, Response, and Recovery	AIA . American Institute of Architects	Sept, 2021	www.aia.org/resources/71636-disaster-assistance- handbook		
3	implementing the large transmission of the l	NOAA, Implementing the Steps to Resilience Practitioner's Guide (PDF, 162 pages)	US Climate Resilience Toolkit	NOAA, National Oceanic & Atmospheric Admin.	1/1/2022	Implementing the Steps to Resilience: a Practitioner's Guide (noaa.gov)		
		Volunteer Training			_			

1		Cal OES, Safety Assessment Program (Website)	required for deployment and Good	Cal OES , California Office of Emergency Services	Ongoing	Safety Assessment Program   California Governor's Office of Emergency Services
2		AIA Disaster Assistance Training (Website)	Website with information regarding the AIA Safety Assessment training (CalOES plus) required for deployment and Good Samaritan protection in many jurisdictions	AIA . American Institute of Architects	Ongoing	https://www.aia.org/resources/69766-disaster- assistance-program
	ILIENCE OCESS	Including Resilience into Arc	hitectural Practice and Projects	6		
1	Resilient Project Process Guide	AIA Resilient Project Process Guide (PDF, 43 pages)	Guide to structuring project processes to include Resilience	<b>AIA</b> . American Institute of Architects	11/29/2023	AIA Resilient Project Process Guide - AIA
2	Resilience Design Toolkit	AIA / HKS Resilience + Toolkit (PDF, 44 pages)	Integrating Resilience into Architectural firm projects	<b>AIA</b> . American Institute of Architects	11/28/2023	www.aia.org/resources/6624977-resilience-design- toolkit
3	A Playbook	NIST, COMMUNITY RESILIENCE PLANNING GUIDE FOR BUILDINGS AND INFRASTRUCTURE SYSTEMS (2020) (PDF, 50 pages)	Guide for including resilience into the planning and design process for buildings and infrasdtructure.	<b>NIST</b> , National Institute of Standards & Technology	10/1/2020	COMMUNITY RESILIENCE PLANNING GUIDE FOR BUILDINGS AND INFRASTRUCTURE SYSTEMS: A Playbook (nist.gov)
4	Interpret Union Angularia and Integrated States of Section 12,000 (Section 12,000)	CA Governor's Office of Planning & Resources, Integrated Climate Adaptation and Resiliency Program (ICARP) (website)	California Governor's plan to integrate climate adaptation and resilience into government policy and facilities.	CA OPR , CA Governor's Office of Planning & Resources	Ongoing	Integrated Climate Adaptation and Resiliency Program (ICARP) - Office of Planning and Research

ASSI	RISK ESSMENT DATA	Historic Data				
1		(Interactive website map by	Includes Expected Annual Loss, Social Vulnerability, Community Resilience and combined Risk Index score data	FEMA, Federal Emergency Management Agency	Ongoing	Map   National Risk Index (fema.gov)
2	Plate Mylaceds		Interactive website maps for Earthquake, Flood, Fire, Tsunami with recommendations	Cal OES , California Office of Emergency Services	Ongoing	Home Page - Cal MyHazards
3	Planting Mig. Interest When the State of Manager Control of Manager Co		Collection of FEMA Flood related interactive map websites	FEMA, Federal Emergency Management Agency	Ongoing	FEMA Flood Map Service Center   Welcome!
		Projected Data				
1	Leaf Chronic Chrop Inspired	Change Snapshot (Interactive website map, down to census	Includes projected data related to temperature precipitation and wildfires to year 3000	Geospatial Innovation Facility at Univ. of California, Berkley	$\sim$	WWW.cal-adapt.org/tools/local-climate-change- snapshot
2	Command Regional For Residence and Applications and Command Co	CRMA Climate Mapping for Resilience and Adaptation (Searchable website mans)	Disaster related climate projections for Extreme Heat, Drought, Wildfire, Flooding, and Coastal Inundation to the end of the century.	NOAA, National Oceanic & Atmospheric Admin.	$\tilde{\mathcal{L}}$	CMRA - Climate Mapping For Resilience and Adaptation (arcgis.com)
3	TO TO STATE OF THE PARTY OF THE		Guide for using climate-risk analytics in project planning and design.	<b>ULI</b> , Urban Land Institute	9/1/2022	How to Choose, Use, and Better Understand Climate-Risk Analytics   ULI Knowledge Finder

4	Control to Dissistance and the Coding stars control for control Styles  To get indeed, note or only or recently primate of Extraction to the Styles  To the	land Analysis (:enter (NEMA(:)   Ine	Climate projections by City or County In the United States	NEMAC , National Environmental Modeling &Analysis Center at UNC	Ongoing	https://crt-climate-explorer.nemac.org/	
		Commercial Projects Risk Da	nta Sites				
1	What will channe the cost you?	commercial addresses available as	Flood, fire, extreme heat, & Wind damage projections based upon property address	Environmental Defense Fund	Ongoing	Home - The U.S. Climate Vulnerability Index	
2	The U.S. Climate Vulnerability Index	(Coarchable website mans) (fecuses	Social Vulnerability Index information focused on Health, infrastructure and socioeconomic issues	Environmental Defense Fund	Ongoing	Home - The U.S. Climate Vulnerability Index	
	LIENCE & TE ACTION						
1		How cities are driving decarbonized and resilient buildings and infrastructure, 2023 report, 28 pages		<b>C40,</b> Cities Climate Leadership Group, Inc.	1/1/2024	C40 Clean Construction Accelerator Progress R eport 2023.pdf	
2							
MANA	RISK MANAGEMENT Risk Management & ROI References LEGAL & ROI						

1		Climate Consequences: Navigating the New Norms of Design Liability (VOS794-DE)	Navigating the Standard of Care: Code driven Standard of Care vs. the Evolving Standard of Care in response to Climate Consequences and the Integration of Resilient Design into Archectural Projects	Victor Insurance US	4/24/2024	https://www.victorinsurance.com/us/policyholder s/victor-risk-advisory/us/design-construction-open- resources/climate-consequences-navigating-new- norms-design-liability.html
2	THE EVOLVING STANDARD OF CARE: RESILIENT DESIGN	The Evolving Standard of Care: Resilient Design	An overview of resilient design and how this concept is shaped by human and natural events, with a primary focus on climate driven change.	<b>XL,</b> a division of	6/6/2023	The Evolving Standard of Care: Resilient Design – AIA California
3		<b>ROI:</b> The Economic case for Resilient design (Website)	Discussions of Resilience Economics particularly Return on Investment (ROI). Includes Resilience ROI talking points	AIA . American Institute of Architects	9/1/2030	The economic case for resilient design (aia.org)
	SINESS ITINUITY	Architectural Firm Continuity	1			
1	Committee of the Commit	Architects' Guide to Business Continuity (PDF, 90 pages)	Guide to business continuity planning, preparation, risk mitigation, and resources, with printable worksheets	AIA . American Institute of Architects	11/29/2023	www.aia.org/resources/6282340-architects-guide- to-business-continuity
		Pandemic Re-occupancy				
1	Re-occupancy Assessment. Tool VI2.0		Tool with checklists for reoccupying facilities after a pandemic shutdown	AIA . American Institute of Architects	7/31/2020	ReOccupancy Assessment Tool v3.pdf (aia.org)
	unity Wide igation					

1	Mitigation Ideas		This document focuses on community education, planning & regulations, and infrastructure issues more than buildings. It is organized on a disaster type basis.		1/1/2013	fema-mitigation-ideas_02-13-2013.pdf
DIS SP	TURAL SASTER ECIFIC Avalanche	Technical Recommendations	S			
		JNDER CONSTRUCTION	 N			
	Ice Storm					
	AUX ( max )	Designing for Natural Hazards Vol,5 Auxiliary, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	()	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 5: Auxiliary (huduser.gov)
	Cold Wave	2				
	AUX (	Designing for Natural Hazards Vol,5 Auxiliary, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	1/20	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 5: Auxiliary (huduser.gov)
	Volcanic A	activity				

AUX AUX	Designing for Natural Hazards Vol,5 Auxiliary, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 5: Auxiliary (huduser.gov)
Drought					
	UNDER CONSTRUCTION	N			
Winter W	'eather				
AUX (IX)	Designing for Natural Hazards Vol,5 Auxiliary, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 5: Auxiliary (huduser.gov)
Earthqua	ke				
EARTH CO	Designing for Natural Hazards Vol,4 Earth, U.S. HUD (PDF, 48 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	FEMA , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 4: Earth (huduser.gov)
Strong W	ind/Hurricane				
PRINCES LOS DATABLES, DATA	Designing for Natural Hazards Vol,1 Wind, U.S. HUD (PDF, 32 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 1: Wind (huduser.gov)
THE CHIEF COME IN COME	Insurance Institute for Business & Home Safety, Risk Research (website)	Collection of over 20 wind specific resources and information regarding FORTIFIED certication	IBHS , Insurance Institute for Business & Home Safety	1/1/2023	www.ibhs.org/risk-research/wind/

The state of the s	Insurance Institute for Business & Home Safety, FORTIFIED Commercial program (website)		IBHS , Insurance Institute for Business & Home Safety	1/1/2023	www.fortifiedhome.org/fortified-commercial/
Gring and barrows and protein your currents in terms on the contract of the co	Insurance Institute for Business & Home Safety, FORTIFIED Residential program (website)		IBHS , Insurance Institute for Business & Home Safety	1/2/2023	www.fortifiedhome.org/
Lightning					
BUILD& PROTECT	Lightning Protection Institute	Short description			Build-Protect-White-Paper-2019-1.pdf (lightning.org)
	Designing for Natural Hazards Vol,3 Fire, U.S. HUD (PDF, 24 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 3: Fire (huduser.gov)
Hail					
					www.ibhs.org/hail/shingle-performance-ratings/
^o^ ( <del></del>	Designing for Natural Hazards Vol,5 Auxiliary, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 5: Auxiliary (huduser.gov)
The second street between the second street second	Impact-resistant Shingle Performance Ratings, Insurance Institute for Business & Home Safety (Web pages)	Rating of 7 brands of impact resistant roof shingles	IBHS , Insurance Institute for Business & Home Safety	1/1/2023	Shingle Performance Ratings – Insurance Institute for Business & Home Safety (ibhs.org)
Wild Fire					

1	Files to America to Marie	Protect Your Property from Wildfire, Insurance Institute for Business & Home Safety (PDF, 40 pages) (2019)	Good explanation of how fires spread and how design decision can minimize ignition potentials for structures.			www.disastersafety.org/wp- content/uploads/2019/03/Wildfire-Retrofit-Guide- California_IBHS.pdf
2	SUBJECTAN VILLUIES ADAPTATION EVALUATES	Suburban Wildfire Adaptation Guide, Insurance Institute for Business & Home Safety (PDF, 52 pages)	path to coexisting with wildfires.	IBHS , Insurance Institute for Business & Home Safety	1/1/2023	www.ibhs.org/wp- content/uploads/member_docs/ibhs-suburban- wildfire-adaptation-roadmaps.pdf
3	Hardening for Wildfire Resilience	What You Can Do Right Now, Hardening for Wildfire Resilience (2023) (Webpage)	General overview of the need for wildfire hardening and 7 specific things you can do right now.	AIA California		Hardening for Wildfire Resilience - AIA California
4	Home Builder's Guide to Construction in Wildfire Zones Management and an	FEMA Homebuilders Guide to Construction in Wildfire Zones (FEMA P-737) (2008) (PDF 80 pages)	Technical fact sheets	<b>FEMA</b> , Federal Emergency Management Agency		www.defensiblespace.org/wp- content/uploads/2021/01/FEMA_2008_P-737- Home-Builders-Guide-to-Construction-in-Wildfire- Zones.pdf
5	FIRE CONTRACTOR OF THE CONTRAC	Designing for Natural Hazards Vol,3 Fire, U.S. HUD (PDF, 24 pages)	some suggested details and	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	https://www.huduser.gov/portal/sites/default/files/pdf/Natural-Hazards_Volume-3-Fire.pdf
	Tornado					
	WIND	Designing for Natural Hazards Vol,1 Wind, U.S. HUD (PDF, 32 pages)	Includes specific suggestions, with	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 1: Wind (huduser.gov)
	Coastal Fl	ooding				
	WATER WATER	Designing for Natural Hazards Vol,2 Water, U.S. HUD (PDF, 28 pages)	some suggested details and	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 2: Water (huduser.gov)

Filter has been been them.  I was a service of the	FEMA Flood Map Service Center (website)	Collection of FEMA Flood related interactive map websites	<b>FEMA</b> , Federal Emergency Management Agency		FEMA Flood Map Service Center   Welcome!
Tsunami					
WATER WATER	Designing for Natural Hazards Vol,2 Water, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 2: Water (huduser.gov)
FIGURAL NAME COME PROPERTY AND ADMINISTRATION OF THE PROPERTY ADMIN	FEMA Flood Map Service Center (website)	Collection of FEMA Flood related interactive map websites	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	FEMA Flood Map Service Center   Welcome!
Heat Wave	e				
AUX (FLX)	Designing for Natural Hazards Vol,5 Auxiliary, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 5: Auxiliary (huduser.gov)
Design for Extreme Heat Events	What You Can Do Right Now, Design for Extreme Heat Events (2023) (Webpage)				Design for Extreme Heat Events - AIA California
AM recent and the second and the sec	How to design for extreme temperatures 2024) (webpage)				How to design for extreme temperatures   The American Institute of Architects (aia.org)
Riverine F	looding				
DESCRING FOR NATURAL HAZARDS	Designing for Natural Hazards Vol,2 Water, U.S. HUD (PDF, 28 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 2: Water (huduser.gov)

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specifier  DOCUMENT  WITH ARRANGE  BARRERS	(free eBook	seems to require future contact acceptance			https://www.constructionspecifier.com/ebook/typ ar-exploring-air-and-water-resistive-barriers-e- book/
Landslide			•		
EARTH	Designing for Natural Hazards Vol,4 Earth, U.S. HUD (PDF, 48 pages)	Includes specific suggestions, with some suggested details and cost/difficulty ratings.	<b>FEMA</b> , Federal Emergency Management Agency	5/1/2023	Designing for Natural Hazards: A Resilience Guide for Builders and Developers - Volume 4: Earth (huduser.gov)
OTHER DISASTERS	·				
	itility Failure				
Electric L		N			
Electric L	Itility Failure	N			
Electric L	Itility Failure UNDER CONSTRUCTION	N			
Electric L	Itility Failure UNDER CONSTRUCTIOI Backup power sources	N			
Electric L	Itility Failure UNDER CONSTRUCTIOI Backup power sources	N			
Electric L	UNDER CONSTRUCTION  Backup power sources  Microgrids	N			Create a Clean Room to Protect Indoor Air Quality During a Wildfire   US EPA

li li	J.S. EPA. <b>Emerging Approaches to</b>				
	Cleaner Indoor Air				
	Ouring Wildfires (PowerPoint				EMERGING APPROACHES TO CLEANER INDOOR
р	oresentation, 31 pages)				AIR DURING WILDFIRES.PDF
Telephone	Utility Failure				
U	NDER CONSTRUCTION	1			
HVAC Syste	em Failure				
U	NDER CONSTRUCTION	N			
Electromag	gnetic Pulse & Geomagnet	ic Disturbance			
Electromagnetic Pulse Shielding Mitgation Management of the Shielding Mitgation  Management of the Shielding Mitgation  The Shieldin Mitgation  The Shielding Mitgation  The Shielding Mitgation  Th	J.S. Dept. of Homeland Security, Science and Technology (2022) PDF, 11 Pages)	This report summarizes recommendations that federal, state, and local agencies and private sector critical infrastructure owners and operators can employ to protect against the effects of an EMP event.	DHS, U.S. Dept. of Homeland Security, Science and Technology	9/6/2022	Electromagnetic Pulse Shielding Mitigations Best Practice   Homeland Security (dhs.gov)
Residence Action Flan	Action Plan (2017) (PDF, 22	This is a government focused report focused on mitigating the effects of EMP & GMD events	<b>DOE</b> , US Department of Energy	1/1/2017	https://www.energy.gov/oe/articles/doe- electromagnetic-pulse-resilience-action-plan
Water Utilit	ty Failure				
U	NDER CONSTRUCTION	V			
Internet Da	ta Utility Failure				

UNDER CONSTRUCTION						
Active Sho	Active Shooter					
ACTIVE SHOOTER AWARENESS GUIDANCE	<b>Cal OES</b> Active Shooter Awareness Guidance, (2018) (PDF, 17 pages)	Best Practices for active shooter	Cal OES , California Office of Emergency Services	2/1/2018	<u>Cal-OES-Active-Shooter-Awareness-Guidance.pd</u>	
Anti-Terro	Anti-Terrorism					
SECRETARISTS OF AN INCIDENT AND AND AN INCIDENT AND	National Institute of Building Science, Field Guide: Conducting BPATS Based Assessments of Commercial Facilities (webpage with resource links)	Best Practices for anti-Terrorism	<b>NIBS</b> , National Institute of Building Science	BuioBuO	https://www.nibs.org/projects/bpats	