

References

- Andrews RW, Pearce JM (2012) Prediction of energy effects on photovoltaic systems due to snowfall events, photovoltaic specialists conference (PVSC). In: 38th IEEE. http://www.academia.edu/1991659/Prediction_of_Energy_Effects_on_Photovoltaic_Systems_due_to_Snowfall_Events
- Arndt and Puto (2011) Basic understanding of IEC standard testing for photovoltaic panels. <http://tuvamerica.com/services/photovoltaics/ArticleBasicUnderstandingPV.pdf>
- Article 690, NFPA 70® (2008) National Electrical Code®, National Fire Protection Association, Quincy, MA, 2008 edition
- ASTM E1038 (2010) Standard test method for determining resistance of photovoltaic modules to hail by impact with propelled ice balls, ASTM, International
- Backstrom B, Tabaddor M (2010) PhD, effect of rack mounted photovoltaic modules on the fire classification rating of roofing assemblies. http://www.solarabcs.org/current-issues/docs/UL_Report_PV_Roof_Flammability_Experiments_11-30-10.pdf. Accessed 20 Nov
- Backstrom R, Dini D (2011) Fire fighter safety and photovoltaic installations research project, underwriters laboratories, Inc., November 29. http://www.ul.com/global/documents/offerings/industries/buildingmaterials/fireservice/PV-FF_SafetyFinalReport.pdf
- Backstrom B, Sloan D (2012) Effect of rack mounted photovoltaic modules on the fire classification rating of roofing assemblies phase 2, UL LLC, project number: 10CA49953, file number: IN15911, January 30. http://www.solarabcs.org/current-issues/docs/UL_Report_Phase2_1-30-12.pdf
- Ball G (2011) Grounding photovoltaic modules: the lay of the land, solar ABCs interim report, solar America board for codes and standards, March. http://www.solarabcs.org/about/publications/reports/module-grounding/pdfs/module-grounding_studyreport.pdf
- Ball G, Zgonena T, Flueckiger C (2012) Photovoltaic module grounding: issues and recommendations, solar ABCs report, solar America board for codes and standards, April. http://www.solarabcs.org/about/publications/reports/modulegrounding/pdfs/IssuesRecomm_Grounding2_studyreport.pdf
- Barkaszi S, O'Brien C (2010) Solar American board for codes and standards report: wind load calculations for PV arrays, June. http://www.solarabcs.org/about/publications/reports/windload/pdfs/Wind_Load_blanksstudyreport3.pdf
- Brooks B (2011) Understanding the cal fire solar photovoltaic installation guideline, solar America board for codes and standards, March. http://solarabcs.com/about/publications/reports/fireguideline/pdfs/CsIFire_studyreport.pdf
- Brooks B (2012) The ground-fault protection BLIND SPOT: a safety concern for larger photovoltaic systems in the United States, a solar ABCs white paper, January. <http://www.solarabcs.org/about/publications/reports/blindspot/pdfs/BlindSpot.pdf>
- Brooks B (2013) Private communication, October
- CALFIRE (2008) Solar photovoltaic installation guideline, April 22. <http://osfm.fire.ca.gov/pdf/reports/solarphotovoltaicguideline.pdf>

- CALFIRE (2010) CALFIRE—office of the state fire marshal, fire operations for photovoltaic emergencies, November. (<http://osfm.fire.ca.gov/training/pdf/Photovoltaics/Fire%20Ops%20PV%20lo%20resl.pdf>)
- Davidson J, Orner F (2008) The new solar electric home: the complete guide to photovoltaics for your home
- DiSanto (2013) Crews battle fire at christmas warehouse. <http://www.nbcphiladelphia.com/news/local/Fire-Burns-at-Christmas-Warehouse-233937231.html>
- Duval R (2013) Private communication, October 25
- EPRI (2010) Addressing solar photovoltaic operations and maintenance challenges: a survey of current knowledge and practices, electric power research institute, July. http://www.smartgridnews.com/artman/uploads/1/1021496AddressingPVOaMChallenges7-2010_1_.pdf
- Fire Engineering (2013) 11-alarm fire destroys south jersey warehouse, September. <http://www.fireengineering.com/articles/2013/08/11-alarm-fire-destroys-south-jersey-warehouse.html>
- Flicker J, Johnson J (2013) Analysis of fuses for ‘blind spot’ ground detection in photovoltaic power systems
- FOX (2013) Dietz and Watson fire aftermath, September. <http://www.myfoxphilly.com/story/23326445/crews-still-pouring-water-on-dietz-watson-fire-scene>)
- FM 4470 (2012) Approval standard for single-ply, polymer-modified bitumen sheet, built-up roof (BUR) and liquid applied roof assemblies for use in class 1 and noncombustible roof deck construction. FM 4470, FM Approvals LLC, June. <http://www.fmglobal.com/assets/pdf/fmapprovals/4470.pdf>
- FM 4473 (2005) Specification test standard for impact resistance testing of rigid roofing materials by impacting with freezer ice balls, FM 4473, Approvals LLC, July. <http://www.fmglobal.com/assets/pdf/fmapprovals/4473.pdf>
- FM 4476 (2011) Approval standard for flexible photovoltaic modules, FM 4476, Approvals LLC, January. <http://www.fmglobal.com/assets/pdf/fmapprovals/4476.pdf>
- FM 4478 (2012) Approval standard for rigid photovoltaic modules, FM 4478, FM Approvals LLC, March. <http://www.fmglobal.com/assets/pdf/fmapprovals/4478.pdf>
- Gandhi P (2011) Critical research for the success of photovoltaic systems. Presented to India Fire Advisory Council, UL, September 21
- Grant CC (2010) Fire fighter safety and emergency response for solar power systems, final report, fire protection research foundation, May. <http://www.nfpa.org/assets/files/pdf/research/ffacticssolarpower.pdf>
- ICC ES (2012) Acceptance criteria for modular framing systems used to support photovoltaic (PV) panels. AC428, international code council evaluation service, November. http://www.icc-es.org/criteria/pdf_files/AC428.pdf
- Jenkins DR, Mathey RG (1992) Hail impact testing procedure for solar covers. NBSIR 82-2487, National bureau of standards, April. Available from national technical information service, 285 Port Royal Road, Springfield, VA 22161-0001
- Kopp G, Maffei J, Tilley C (2011) Rooftop solar arrays and wind loading: a primer on using wind tunnel testing as a basis for code compliant design per ASCE 7. Boundary layer wind tunnel laboratory, the university of western Ontario, faculty of engineering. http://www.sunlink.com/files/WindPrimer_07-2011.pdf
- Kopp (2012) Wind loads on low profile, tilted, solar array placed on low-rise buildings roofs. ATC/SEI hurricane conference, Miami
- Kopp (2014) Wind loads on low profile, tilted, solar arrays placed on large, flat, low-rise building roofs. J Struct Eng. doi:10.1061/(ASCE)ST.1943-541X.0000821
- Kopp, Banks (2012) Use of the wind tunnel test method for obtaining design wind loads on roof-mounted solar arrays. J Struct Eng
- Kopp GA, Farquhar S, Morrison MJ (2013) Aerodynamic mechanisms for wind loads on tilted, roof-mounted, solar arrays. J Wind Eng Ind Aerodyn 40–52
- Kirby JR (2011) Low-slope roofs as platforms for PV systems. SOLARPRO 32–40

- Maffei J, Telleen K, Ward R, Kopp G, Schellenberg A (2014) Wind design practice and recommendations for solar arrays on low-slope roofs. *J Struct Eng* 140(2):04013040
- Moore D, Wilson A (1978) Photovoltaic solar panel resistance to simulated hail. Low-cost solar array project report 5101-62, in national fire protection association, 2011: the U.S. fire problem, Quincy, MA. www.nfpa.org/categoryList.asp?categoryID=953&URL=Research/Fire%20statistics/The%20U.S.%20fire%20problem
- NEC (2014) The national electrical code. National fire protection association
- News NJ (2013) Deitz & Watson warehouse blaze, September. http://www.nj.com/burlington/index.ssf/2013/09/dietz_and_watson_warehouse_fire_solar_panels_make_battling_blaze_much_harder_officials_say.html
- O'Brien PE, C, Barkaszi PE, S (2010) Wind load calculations for PV arrays. Solar American board for codes and standards report. Jet propulsion laboratory, Pasadena, CA, 1978. Available from national technical information service, 5285 Port Royal Road, Springfield, VA 22161-0001
- Paiss (2011a) Part 1, solar photovoltaic safety for fire fighters. <http://www.youtube.com/watch?v=XIGXF8iQnyY>
- Paiss (2011b) Part 2, solar photovoltaic safety for fire fighters. <http://www.youtube.com/watch?v=cJsvkZj0scQ>
- Ross MMD (1995) Snow and ice accumulation on photovoltaic arrays: an assessment of the TN conseil passive melting technology, report # EDRL 95-68 (TR), energy diversification research laboratory, CANMET, natural resources Canada, Varennes, September, 273 p. <http://www.rerinfo.ca/documents/trPVSnowandRime.pdf>
- Schellenberg A, Maffei J, Telleen K, Ward R (2013) Structural analysis and applications of wind loads to solar arrays. *J Wind Eng Ind, Aero*
- SEIA (2013) U.S. market installs 832 megawatts in Q2 2013; grows 15% over last quarter. Retrieved from SEIA. <http://www.seia.org/research-resources/solar-industry-data>
- SEAOC (2012a) Structural seismic requirements and commentary for rooftop solar photovoltaic arrays. Structural engineers association of California, solar photovoltaic systems committee, report SEAOC PVI-2012, August
- SEAOC (2012b) Wind design for low-profile solar photovoltaic arrays on flat roofs. Structural engineers association of California, solar photovoltaic systems committee, report SEAOC PV2-2012, August
- Sherwood L, Backstrom B, Sloan D, Flueckiger C, Brooks B, Rosenthal A (2013) Fire classification rating testing of stand-off mounted photovoltaic modules and systems, August. <http://www.solarabcs.org/about/publications/reports/flammability-testing/pdfs/SolarABCs-36-2013-1.pdf>
- Smith J (2011) Targeting safety in photovoltaic system installation and maintenance, Fluke application note. http://support.fluke.com/find-sales/Download/Asset/3977708_6003_ENG_A_W.PDF
- Solar ABCs (2011) Impacts on photovoltaic installations of changes to the 2012 international codes, a solar ABCs white paper, May. <http://www.solarabcs.org/about/publications/reports/2012Codes/pdfs/ABCS-22whitepaper.pdf>
- SunLink (2012) SunLink seismic testing roof integrity report. http://www.sunlink.com/uploadedFiles/SunLink/Content/Files/Report_SeismicTestingRoofIntegrity_04-2012.pdf
- The Center PV Taskforce (2013) PV racking and attachment criteria for effective low slope metal panel roof system integration. The Center PV Taskforce Washington, DC
- Thomson Reuters (2013) Techstreet store. <http://www.techstreet.com/products/1235145>
- Useton RB (2012) Senior principal engineer, applied research group, lennox industries Inc. Construction of a hail gun for solar PV module testing. February 28, 2012. http://www1.eere.energy.gov/solar/pdfs/pvmrw12_poster_si_uselton.pdf
- Wiles J, Jr (2012) Photovoltaic system grounding, solar America board for codes and standards, October 2012. http://www.solarabcs.org/about/publications/reports/systemgrounding/pdfs/SystemGrounding_studyreport.pdf

- Wohlgemuth (2012) IEC 61215: what it is and isn't. National renewable energy laboratory. <http://www.nrel.gov/docs/fy12osti/54714.pdf>
- XWOW (2013) Organic valley headquarters fire. News 19, La Crosse, WI. <http://www.wxow.com/story/22251772/2013/05/14/fire-at-organic-valley-hq-in-la-farge>