





















































	nmercial Buildings (Insulation	component R-value-base	d method)		
Climate zone	Assembly description				
	Insulation entirely above deck	Metal buildings	Attic and other		
1	R-20ci (all other)				
	R-25ci (Group R)		D 20		
2	D 25-4		K-38		
3	R-25CI				
4		R-19 + R-11 LS	R-38 (except Marine 4		
5	R-30ci		R-38 (all other) R-49 (Group R, Marine 4)		
6		R-25 + R-11 LS			
7		D 20 - D 44 - C	R-49		
8	R-35ci	R-30 + R-11 LS			

























NRCA

A typical code official

- Between the ages of 55 and 64
- A jurisdiction employee (rather than third-party provider)
- Works in a one- to nine-person jurisdiction, less than 75,000 in population
- Earns between \$50,000 and \$75,000 (mean 2012 salary was \$51,017 according to the U.S. Census Bureau)
- Has 26 to 35 years of experience in the building industry, but only five to 15 years as a code official

41

• Entered the code profession in their 30s; held one to three prior jobs; first job was as a tradesperson







Consider joining ICC
INTERNATIONAL CODE COUNCIL Boonle Helping Boonle Build a Safer World
People Helping People Build a Sater World
Membership categories:
Corporate member: \$400 (complete collection)
Building safety professional member: \$150 (1 code)
http://www.iccsafe.org/Membership/Pages/join.aspx









www.fmgl	obaldatasheets.com
FM Global Property Loss Prevention Data Sheets 1-28 Oceaner 2015 Pege 1 of 100	October 2015 update
WOD CESCO Instruction of the source of the sourc	Based upon ASCE 7-05 with enhancements
2.2 Port Overheings 2.3 Notin of Pertinster and Comer Zones 2.5 Status Ville 2.5 Status Ville 2.6 All Status 2.6 All Stat	Reformatted
2 Second Se	Be cautious of FM- insured projects
3.3.2 Exception of Chelgin Pressure Deterministics For Proposed Roof Construction 24 3.4 Whot Design Pressures for Less-Common Field Shapes 28 3.4 Whot Design Pressures for Less-Common Field Shapes 28 3.4 Shape Stops, March Shape 20	See Professional
A 4.5 Bene Dies MAX Spin Under (Hon	Roofing, March 2016

<section-header><section-header></section-header></section-header>	<section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header>
--	--

Comparing FM 1-28 to ASCE 7-05 and ASCE 7-10

Example: A manufacturing building located in New Orleans, LA. The building is an enclosed structure with a low-slope roof system and a roof height of 33 ft. The building is located in an area that is categorized as Exposure Category C.

Document	Basic wind speed	Design wind pressure (psf)		
	(mph)	Zone 1 (Field)	Zone 2 (Perimeter)	Zone 3 (Corner)
FM 1-28 (without SF)		43	72	108
FM 1-28 (w/ 2.0 SF)	V = 120	86	144	216
ASCE 7-05 (without SF)		38	63	95
ASCE 7-05 (w/ 2.0 SF)	V = 120	76	126	190
ASCE 7-10 Strength design	v _{ULT} = 150	59	99	148
ASCE 7-10 ASD (without SF)		35	59	89
ASCE 7-10 ASD (w/ 2.0 SF)	v _{ASD} = 116	71	118	178







GC_p pressure coefficients h \leq 60 ft., gable roofs \leq 7 degrees				
Zone	ASCE 7-10	ASCE 7-16 (draft)		
1'		-0.9		
1	-1.0	-1.7		
2 (perimeter)	-1.8	-2.3		
3 (corners)	-2.8	-3.2		











