Texas Windstorm Insurance Association 2022 Catastrophe Year Disclosure to the Commissioner Section 2210.453 of the Texas Insurance Code and 28 Texas Administrative Code §5.4160

Disclosure Requirement		Model #1	Model #2
\$5.4160(d)(1)	The hurricane model or models the Association relied on, including the model vendors, the model names, and the versions of each model;	Model Vendor: Risk Management Solutions, Inc. (RMS) Model Name: North Atlantic Windstorm Model Model Version: RMS RiskLink 21.0 Windstorm/Hurricane and Convective Storm (WS/CS)	Model Vendor: AIR Worldwide Corporation Model Name: AIR Tropical Cyclone Model for the United States Model Version: AIR Touchstone 9.0 Tropical Cyclone (TC) and Severe Thunderstorm (ST)
§5.4160(d)(2)	The in-force date and the total amount of direct exposures in force for the policy data used as the input for each hurricane model the association relied on;	In-force Date: 11/30/2021 Direct Exposures: Total Insured Values (TIV): \$70,833,471,461 Total Policy Limits: \$65,223,101,644 Risk Count: 202,136	In-force Date: 11/30/2021 Direct Exposures: Total Insured Values (TIV): \$70,833,471,461 Total Policy Limits: \$65,223,101,644 Risk Count: 202,136
§5.4160(d)(3)	All user-selected hurricane model input assumptions used with each hurricane model the association relied on;	Assumptions: - All Perils (Windstorm/Hurricane and Severe Convective Storms). - Aggregate Annual Loss estimate. - Windstorm frequency –RMS 2021 Stochastic (Near Term) Event Rates. - Severe Convective Storm frequency – RMS 2013 Stochastic Event Rates (High and Low frequency). - With post-event loss amplification (PLA) ("Demand Surge") for Windstorm /Hurricane; Severe Convective Storm excludes loss amplification. - Without Storm Surge.	Assumptions: - All Perils (Tropical Cyclone - Wind and Severe Thunderstorm). - Aggregate Annual Loss estimate. - Tropical Cyclone frequency - 10K US AP (2020) Warm Sea Surface Temperatures (WSST) frequency set. - Severe Thunderstorm frequency - 10K US AP (2020) - Standard. - With Demand Surge for Tropical Cyclone - Wind and Severe Thunderstorm. - Without Storm Surge.
§5.4160(d)(4)	The one-in-100-year probable maximum loss model output produced by each hurricane model the Association relied on;	One-in-100-year PML: \$3,091,511,058	One-in-100-year PML: \$4,540,357,178

§5.4160(d)(If the association relied on more	Blending methodology:	Blending methodology:
5)	than one hurricane model, the	The aggregate annual loss output from each of the	The aggregate annual loss output from each of the
	methodology the association	two models described herein were combined using	two models described herein were combined using
	used to blend or average the	a weighting of 25% RMS, 25% AIR, 25% IF, and	a weighting of 25% RMS, 25% AIR, 25% IF, and
	hurricane model outputs,	25% RQE to produce a combined one-in-100-year	25% RQE to produce a combined one-in-100-year
	including all weighting factors	aggregate loss estimate of \$3,683,719,259	aggregate loss estimate of \$3,683,719,259
	used;	excluding any provision for estimated loss	excluding any provision for estimated loss
		adjustment expenses.	adjustment expenses.
§5.4160(d)(Any adjustments the association	Adjustments:	Adjustments:
6)	or another party made to the	The combined one-in-100-year aggregate loss	The combined one-in-100-year aggregate loss
	one-in-100-year probable	estimate described in §5.4160(d)(5) was increased	estimate described in §5.4160(d)(5) was increased
	maximum loss model outputs or	by a factor of 15% to account for estimated loss	by a factor of 15% to account for estimated loss
	the blended or averaged output,	adjustment expenses to yield \$4,236,277,148.	adjustment expenses to yield \$4,236,277,148.
	including any adjustments to	This amount was rounded to the nearest \$1 million	This amount was rounded to the nearest \$1 million
	include loss adjustment	to derive the one-in-100-year probable maximum	to derive the one-in-100-year probable maximum
	expenses.	loss for the calendar year 2022 of	loss for the calendar year 2022 of
		\$4,236,000,000.	\$4,236,000,000.

Texas Windstorm Insurance Association 2022 Catastrophe Year Disclosure to the Commissioner Section 2210.453 of the Texas Insurance Code and 28 Texas Administrative Code §5.4160

Disclosure Requirement		Model #3	Model #4			
§5.4160(d)(1)	The hurricane model or models the Association relied on, including the model vendors, the model names, and the versions of each model;	Model Vendor: Impact Forecasting (IF) Model Name: Atlantic Tropical Cyclone and Severe Convective Storm Models Model Version: Impact Forecasting ELEMENTS 15.0 Atlantic Tropical Cyclone and Severe Convective Storm	Model Vendor: CoreLogic (CL) Model Name: CoreLogic North Atlantic Hurricane and Severe Convective Storm Models Model Version: CoreLogic Risk Quantification & Engineering (RQE) v21 North Atlantic Hurricane (HU) and Severe Convective Storm (SCS)			
\$5.4160(d)(2)	The in-force date and the total amount of direct exposures in force for the policy data used as the input for each hurricane model the association relied on;	In-force Date: 11/30/2021 Direct Exposures: Total Insured Values (TIV): \$70,833,471,461 Total Policy Limits: \$65,223,101,644 Risk Count: 202,136	In-force Date: 11/30/2021 Direct Exposures: Total Insured Values (TIV): \$70,833,471,461 Total Policy Limits: \$65,223,101,644 Risk Count: 202,136			
§5.4160(d)(3)	All user-selected hurricane model input assumptions used with each hurricane model the association relied on;	Assumptions: - All Perils (Atlantic Tropical Cyclone - Wind and Severe Convective Storms). - Aggregate Annual Loss estimate. - Atlantic Tropical Cyclone v2.0 - Wind Only Stochastic (Near Term) Event Rates. - 48-State Severe Convective Storm v1.0 - All sub-perils. - With Demand Surge for Tropical Cyclone and Severe Convective Storm. - Without Storm Surge.	Assumptions: - All Perils (North Atlantic Hurricane and Severe Convective Storm). - Aggregate Annual Loss estimate. - North Atlantic Hurricane v21 – Wind Only 300k Stochastic (Near Term) Event Set. - Severe Thunderstorm frequency - Standard. - With Demand Surge for North Atlantic Hurricane and Severe Convective Storm. - Without Storm Surge.			
§5.4160(d)(4)	The one-in-100-year probable maximum loss model output produced by each hurricane model the Association relied on;	One-in-100-year PML: \$3,600,975,648	One-in-100-year PML: \$3,502,033,152			

§5.4160(d)(If the association relied on more	Blending methodology:	Blending methodology:
5)	than one hurricane model, the	The aggregate annual loss output from each of the	The aggregate annual loss output from each of the
	methodology the association	two models described herein were combined using	two models described herein were combined using
	used to blend or average the	a weighting of 25% RMS, 25% AIR, 25% IF, and	a weighting of 25% RMS, 25% AIR, 25% IF, and
	hurricane model outputs,	25% RQE to produce a combined one-in-100-year	25% RQE to produce a combined one-in-100-year
	including all weighting factors	aggregate loss estimate of \$3,683,719,259	aggregate loss estimate of \$3,683,719,259
	used;	excluding any provision for estimated loss	excluding any provision for estimated loss
		adjustment expenses.	adjustment expenses.
§5.4160(d)(Any adjustments the association	Adjustments:	Adjustments:
6)	or another party made to the	The combined one-in-100-year aggregate loss	The combined one-in-100-year aggregate loss
	one-in-100-year probable	estimate described in §5.4160(d)(5) was increased	estimate described in §5.4160(d)(5) was increased
	maximum loss model outputs or	by a factor of 15% to account for estimated loss	by a factor of 15% to account for estimated loss
	the blended or averaged output,	adjustment expenses to yield \$4,236,277,148.	adjustment expenses to yield \$4,236,277,148.
	including any adjustments to	This amount was rounded to the nearest \$1 million	This amount was rounded to the nearest \$1 million
	include loss adjustment	to derive the one-in-100-year probable maximum	to derive the one-in-100-year probable maximum
	expenses.	loss for the calendar year 2022 of	loss for the calendar year 2022 of
		\$4,236,000,000.	\$4,236,000,000.

Exhibit A

Additional information under §5.4160(d)(3) All user-selected hurricane model input assumptions used with each hurricane model the association relied on.

RMS settings

Modeling Parameters

Portfolio	Hurricane Near Term	Hurricane Long Term	Severe Convective Storm
Vendor	RMS	RMS	RMS
Model	RiskLink	RiskLink	RiskLink
Version	21.0	21.0	21.0
In-Force	11/30/2021	11/30/2021	11/30/2021
Peril	Windstorm/Hurricane	Windstorm/Hurricane	Convective Storm
Primary Peril	Wind	Wind	Tornado
Sec Peril	None (excludes Storm Surge)	None (excludes Storm Surge)	Hail + Wind
Event Losses Include	NA	NA	Low Freq (OEP); Low+High Freq (AEP)
Country	United States	United States	United States
Currency	USD	USD	USD
PLA/DS	with Loss Amplification	with Loss Amplification	excludes Loss Amplification (not an option)
Vulnerability	Default	Default	Default
Frequency	RMS 2021 Stochastic Event Rates	RMS 2021 Historical Event Rates	RMS 2013 Stochastic Event Rates

AIR settings

Modeling Parameters

Portfolio	Hurricane Near Term	Hurricane Long Term	Severe Convective Storm					
Vendor	AIR	AIR	AIR					
Model	Touchstone	Touchstone	Touchstone					
Version	9.0	9.0	9.0					
In-Force	11/30/2021	11/30/2021	11/30/2021					
Peril	Tropical Cyclone - Wind	Tropical Cyclone - Wind	Severe Thunderstorm					
Sec Peril	None (excludes Storm Surge)	None (excludes Storm Surge)	Hail + Straight-Line Winds + Tornado					
Country	United States	United States	United States					
Currency	USD	USD	USD					
PLA/DS	with Demand Surge	with Demand Surge	with Demand Surge					
Frequency	10K US AP (2020) - Warm SST	10K US AP (2020) - Standard	10K US AP (2021) - Standard					
Financial Settings	Disaggregation: ON; Average Properties: A	Automatic; For Invalid Con/Occ Pairs: Use S	System Default;					
All Perils	Apply location terms for residential contracts: Deductibles before limits							

IF settings

Modeling Parameters

Portfolio	Hurricane Near Term	Hurricane Long Term	Severe Convective Storm
Vendor	Impact Forecasting	Impact Forecasting	Impact Forecasting
Model	ELEMENTS	ELEMENTS	ELEMENTS
Version	15.0	15.0	15.0
In-Force	11/30/2021	11/30/2021	11/30/2021
Peril	Atlantic Tropical Cyclone v2.0 - Wind	Atlantic Tropical Cyclone v2.0 - Wind	Severe Convective Storm
Sec Peril	None (excludes Storm Surge)	None (excludes Storm Surge)	All subperils
Country	United States	United States	United States
Currency	USD	USD	USD
PLA/DS	with Demand Surge	with Demand Surge	with Demand Surge
Vulnerability	Default	Default	Default
Frequency	Near-Term	Long-Term	48-State Severe Convective Storm v1.0

CL settings

Modeling Parameters

Portfolio	Hurricane Near Term	Hurricane Long Term	Severe Convective Storm
Vendor	CoreLogic	CoreLogic	CoreLogic
Model	Risk Quantification & Engineering (RQE)	Risk Quantification & Engineering (RQE)	Risk Quantification & Engineering (RQE)
Version	21.0	21.0	21.0
In-Force	11/30/2021	11/30/2021	11/30/2021
Peril	North Atlantic Hurricane - Wind	North Atlantic Hurricane - Wind	Severe Convective Storm
Sec Peril	None (excludes Storm Surge)	None (excludes Storm Surge)	All subperils
Country	United States	United States	United States
Currency	USD	USD	USD
PLA/DS	with Demand Surge	with Demand Surge	with Demand Surge
Frequency	Hurricane, North Atlantic - U.S. Mainland	Hurricane, North Atlantic - U.S. Mainland	Severe Convective Storm, U.S Optimized
	Landfalling/Bypassing - Near Term	Landfalling/Bypassing	

General Information about exposure data for model inputs

- Data is current as of November 30, 2021.
- Each record in the data set represents one risk, defined as a single building and/or location.
- The data included 192,184 policies and 202,136 locations.
- The following process is taken for geocoding:
 - 1. Import/geocode in AIR.
 - 2. Convert to RMS and preserve user supplied lat/long include in the AIR import files.
 - 3. Geocode in RMS using the user supplied lat/long.
 - 4. Utilize geocoded county detail for reporting purposes.
- The perils of hurricane and tornado/hail will be modeled in RMS RiskLink v21.0, AIR Touchstone v9.0, IF ELEMENTS v15.0, and CL RQE v21.0.
- The data was reported with a "Wind Excluded" flag of N for all policies.
 Therefore, all policies will be assumed to be covered for hurricane.
- All data assumptions to follow will be based on 192,184 policies and 202,136 locations.

Deductibles

 Building and Contents deductibles were reported as coverage level for Commercial, Residential, and Mobile Home and will be modeled as reported.

Limits and Values

- Limits and values were provided for Building, Contents and Time Element. There
 were no limits or values provided for Appurtenant Structures. It is included in the
 Building coverage. Per TWIA's instruction, only the value field should be used as
 model input. The reported coverage limit is to be used where the reported value is
 zero (the only cases were 10,574 Contents in this data set).
- Site blanket limits were provided for all records as the sum of the site coverage limit fields subject to the statutory limits. These will be used to cap losses at the site level.

Risk Characteristics

Construction was reported and will be modeled as follows:

TWIA Code	Site Limit	Risk Count	RMS Code	AIR Code	IF Code	CL Code
Brick	3,200,836,655	8,940	2	111	MAS	MAS
Brick Veneer	33,730,080,141	95,142	1 w/ Clad Sys 1	103	WD	TIM
Frame	25,986,505,707	92,795	1	101	WD	TIM
Not Applicable*	52,690,921	912	5B	194	MHT	MOB
Semi Wind Resistant	943,869,712	1,035	4	182	ST	STL
Wind Resistant	1,278,705,857	2,805	4	183	ST	STL
Not Applicable	30,412,651	507	0	100	UNK	UNK
Total	65,223,101,644	202,136				

^{*2020} Assumptions are named "MH Tied (set based on Type of Business)"

Occupancy was reported and will be modeled as follows:

Occupancy Type	pancy Type Site Limit F		RMS ATC Code	AIR Code	IF Code	CL Code
Commercial	830,000	4	1	302	R	RES
Commercial	452,327,865	955	2	303	R	RESAPT
Commercial	1,765,714,772	1,669	2	306	R	RESAPT
Commercial	3,974,471,290	9,135	37	311	Com	COM
Commercial	92,292,283	120	22	341	EdGovOrg	COMEDU
Commercial	5,494,252	4	25	346	EdGovOrg	MUNEDU
Commercial Farm	11,607,045	93	20	373	Agri	AGR
Governmental	237,951,938	98	25	346	EdGovOrg	MUNEDU
Manufactured Home	52,690,921	912	1	302	R	RES
Residential	57,221,219,166	178,295	1	302	R	RES
Residential	726,407,591	3,870	2	303	R	RESAPT
Residential	614,534,083	6,795	2	306	R	RESAPT
Residential	2,412,400	34	37	311	Com	COM
Residential Farm	65,148,038	152	1	302	R	RES
Total	65,223,101,644	202,136				

- The number of stories was reported and will be modeled if valid. There are 3,427 locations with no number of stories that will be modeled as unknown.
- Year built was reported and will be modeled if valid. There are 912 locations with no year built that will be modeled as unknown. Also, 1 location with a year built greater than the inception date year will be reset to the inception date year. Total limits, by year of construction band, to be modeled will be as follows:

Year Built	Site Limit	Risk Count
Unknown	52,690,921	912
<= 1994	35,005,251,225	125,569
1995 - 2001	7,454,340,300	19,112
2002 - 2008	11,494,376,821	28,893
>= 2009	11,216,442,377	27,650
Total	65,223,101,644	202,136

- Square footage was reported and will be modeled if valid. 9,267 locations with no square footage or square footage greater than 2M will be modeled as unknown.
 Currently, RMS only uses square footage for residential and low- rise commercial structures. For AIR, this field is only used for larger high value homes for the hurricane peril.
- The following pages includes details regarding occupancy and secondary modifier updates.

Texas Windstorm Insurance Association Data as of 11/30/2021 Occupancy

Commercial

Commercial

Commercial

Commercial

Commercial

Commercial

Commercial Commercial

M5r

M5s

M5u

P05

P09

P10

T02

T16

17,221,029

4.424.000

2,048,078

14,225,000

191,687,423

2,348,400

311,857 67 0.0% 37 311 Com COM 16,224 3 0.0% 37 311 Com COM

100,000 2 0.0% 37 311 Com COM

220,000 4 0.0% 37 311 Com COM 17,221,029 4 0.0% 2 303 R RESAPT

2 306

2 306

306

2 306

R RESAPT

R RESAPT

R RESAPT

R RESAPT

R RESAPT

135,191,004 250 0.2% 2 303

1 0.0% 7 0.0%

8 0.0%

264 0.3%

0.0%

Use the field "CLASS_CD" in PC data for occupancy if provides better detail and significant TIV contribution. Otherwise use the "Occupancy_Type" reported in Location data.

Occupancy_Type	CLASS_CODE	Site Limit	Risk Count	% of Limit	RMS Code A	R Code	IF Code	CL Code	Occupancy_Type	CLASS_CODE	Site Limit	Risk Count	% of Limit	RMS Code /	AIR Code	IF Code	CL Code
Commercial	A03	3,708,754	5	0.0%	2	303	R	RESAPT	Commercial Farm	F03	4,700,045	48	0.0%	20	373	Agri	AGR
Commercial	A04	96,488,611	363	0.1%	2	303	R	RESAPT	Commercial Farm	F04	95,000	9	0.0%	20	373	Agri	AGR
Commercial	A05	2,000,000	1	0.0%	2	303	R	RESAPT	Commercial Farm	F05	6,812,000	36	0.0%	20	373	Agri	AGR
Commercial	A06	194,808,335	307	0.3%	2	303	R	RESAPT	Governmental	CML03a	47,633,289	44	0.1%	25	346	EdGovOrg	MUNEDU
Commercial	A10	500,000	1	0.0%	2	303	R	RESAPT	Governmental	CML04a	190,318,649	54	0.3%	25	346	EdGovOrg	MUNEDU
Commercial	A12	2,410,132	24	0.0%	2	303	R	RESAPT	Manufactured Hom	ne MH1	52,231,921	898	0.1%	1	302	R	RES
Commercial	B01	27,034,500	69	0.0%	37	311	Com	COM	Manufactured Hom	ne MH2	270,000	4	0.0%	1	302	R	RES
Commercial	B02	77,000	4	0.0%	37	311	Com	COM	Manufactured Hom	ne MH3	189,000	10	0.0%	1	302	R	RES
Commercial	B03A	3,580,600	12	0.0%	37	311	Com	COM	Residential	A02	25,060,915	151	0.0%	2	303	R	RESAPT
Commercial	B03B	36,315,404	162	0.1%	37	311	Com	COM	Residential	A08	10,000	1	0.0%	2	303	R	RESAPT
Commercial	B06	215,750	1	0.0%	37	311	Com	COM	Residential	A15	3,169,000	78	0.0%	2	303	R	RESAPT
Commercial	B06D	37,785,239	28	0.1%	37	311	Com	COM	Residential	A17	11,899,574	336	0.0%	2	303	R	RESAPT
Commercial	B07	370,558,634	915	0.6%	37	311	Com	COM	Residential	A18	206,440	6	0.0%	2	303	R	RESAPT
Commercial	B09A	250,000	2	0.0%	37	311	Com	COM	Residential	CML10	2,412,400	34	0.0%	37	311	Com	COM
Commercial	B09B	830,000	4	0.0%	1	302	R	RES	Residential	CON13	222,574,517	2,322	0.3%	2	306	R	RESAPT
Commercial	B10	20,549,876	21	0.0%	37	311	Com	COM	Residential	CON14	345,555,191	4,313	0.5%	2	306	R	RESAPT
Commercial	B12	300,000	1	0.0%	37	311	Com	COM	Residential	D01	5,846,576	8	0.0%	1	302	R	RES
Commercial	B12D	6,096,000	6	0.0%	37	311	Com	COM	Residential	D02	56,970,366,447	174,080	87.3%	1	302	R	RES
Commercial	CML01	2,194,622,095	4,880	3.4%	37	311	Com	COM	Residential	D04	242,800	1	0.0%	1	302	R	RES
Commercial	CML02	905,653,482	569	1.4%	37	311	Com	COM	Residential	D06	83,375,349	1,161	0.1%	1	302	R	RES
Commercial	CML05	252,334,808	1,409	0.4%	37	311	Com	COM	Residential	D08	146,652,171	2,560	0.2%	1	302	R	RES
Commercial	CML08	92,292,283	120	0.1%	22	341	EdGovOrg	COMEDU	Residential	D10	2,338,300	46	0.0%	1	302	В	RES
Commercial	CML09	5,494,252	4	0.0%			EdGovOrg		Residential	D12	299,222,959	1,346	0.5%	2	303	В	RESAPT
Commercial	CML11	26,211,005	46	0.0%		311	Com	COM	Residential	D15	40,000	1	0.0%	2	303	В	RESAPT
Commercial	CON01	685,879,865	242	1.1%	2	306	R		Residential	D16	3,529,188	74	0.0%		303	R	RESAPT
Commercial	CON02	805,597,651	865	1.2%		306	R	RESAPT	Residential	D17	1,662,852	98	0.0%		302	В	RES
Commercial	CON03	14,619,597	37	0.0%	2	306	R	RESAPT	Residential	D18	2,599,098	89	0.0%		302	В	RES
Commercial	CON04	30,390,330	196	0.0%	2	306	R	RESAPT	Residential	F18	2,228,440	21	0.0%	1	302	В	RES
Commercial	CON06	722,800	26	0.0%	2	306	R	RESAPT	Residential	M4	873,000	36	0.0%	1	302	В	RES
Commercial	CON08	13,545,628	13	0.0%	2	306	R	RESAPT	Residential	M4b	1,225,700	66	0.0%	1	302	В	RES
Commercial	CON09	226,000	1	0.0%		306	R		Residential	M4c	2,507,007	89	0.0%		302	R	RES
Commercial	F07	4,424,000	1	0.0%		311	Com	COM	Residential	M4d	2,000	1	0.0%		302	R	RES
Commercial	M1	33,758,976	267	0.1%		311	Com	COM	Residential	M4f	5,000	1	0.0%		302	R	RES
Commercial	M1a	154,288	5	0.0%		311	Com	COM	Residential	M4h	1,163,125	29	0.0%		302	R	RES
Commercial	M5a	30,000	3	0.0%		311	Com	COM	Residential	M4i	131,300	9	0.0%	1	302	R	RES
Commercial	M5b	666,000	16	0.0%		311	Com	COM	Residential	P02	58,625,158	277	0.1%	2	303		RESAPT
Commercial	M5d	1,939,524	9	0.0%		311	Com	COM	Residential	T05	994,000	1	0.0%	2	303		
Commercial	M5e	20,000	1	0.0%		311	Com	COM	Residential	T06	252,924,776	859	0.4%	2	303		RESAPT
Commercial	M5f	4,650,276	32	0.0%		311	Com	COM	Residential	T09	100,000	1	0.0%	2	303		RESAPT
Commercial	M5q	20.000	1	0.0%		311	Com	COM	Residential	T10	70.625.580	739	0.1%	2	303		RESAPT
Commercial	M5h	7,736,195	116	0.0%		311	Com	COM	Residential	T12	46,404,375	160	0.1%	2	306	R	RESAPT
Commercial	M5i	2,400,441	52	0.0%		311	Com	COM	Residential Farm	F01	64,704,038	149	0.1%	1	302	 B	RES
Commercial	M5k	440,527	23	0.0%		311	Com	COM	Residential Farm	F02	444,000	3	0.0%	1	302	R	RES
Commercial	M5I	753.199	43	0.0%		311	Com	COM	Total	. 02	65,223,101,644	202.136	100.0%		502	n	1123
Commercial	M5m	24,613,990	118	0.0%		311	Com	COM	. Jtai		55,225,101,044	202,130	100.070				
Commercial	M5o	6,691,232	117	0.0%		311	Com	COM									
		50,480	2	0.0%		311		COM									
Commercial	M5p						Com										
Commercial	M5q	3,889,688	128	0.0%	37	311	Com	COM									

Texas Windstorm Insurance Association Data as of 11/30/2021

Roof Cover by Model and Peril and AIR Roof Hail Impact Resistance (SCS only)

			Hurricane				
AIR Roof Cover Description	AIR Code	RMS Code	IF Code	CL Code	Site Limit	Risk Count	% of Limit
Unknown	0	0	0	0	1,294,164,365	6,900	2.0%
Asphalt Shingles	1	7	1	1	36,608,148,739	125,836	56.1%
Wooden Shingles	2	6	0	9	84,070,223	264	0.1%
Clay/Concrete Tiles	3	5	2	10	1,827,682,875	3,321	2.8%
Light Metal Panel	4	2	3	8	3,149,286,681	8,144	4.8%
Slate	5	5	2	10	533,462,809	1,743	0.8%
Built-up Roof With Gravel	6	0	0	0	946,556,892	2,846	1.5%
Single ply membrane	7	0	0	0	259,271,258	495	0.4%
Standing Seams Metal Roof	8	2	3	8	458,456,171	1,070	0.7%
Built-up Roof Without Gravel	9	0	0	0	1,477,184,421	2,019	2.3%
Hurricane Rated Roof Covering	11	9	3	2	18,584,817,210	49,498	28.5%
Total					65,223,101,644	202,136	100.0%
		Sever	e Convective	Storm			
AIR Roof Cover Description	AIR Code	RMS Code	IF Code	RQE Code	Site Limit	Risk Count	% of Limit
Unknown	0	0	0	0	1,312,338,495	7,153	2.0%
Asphalt Shingles	1	7	1	1	55,174,791,819	175,081	84.6%
Wooden Shingles	2	6	0	9	84,070,223	264	0.1%
Clay/Concrete Tiles	3	5	2	10	1,827,682,875	3,321	2.8%
Light Metal Panel	4	2	3	8	3,149,286,681	8,144	4.8%
Slate	5	5	2	10	533,462,809	1,743	0.8%
Built-up Roof With Gravel	6	0	0	0	946,556,892	2,846	1.5%
Single ply membrane	7	0	0	0	259,271,258	495	0.4%
Standing Seams Metal Roof	8	2	3	8	458,456,171	1,070	0.7%
Built-up Roof Without Gravel	9	0	0	0	1,477,184,421	2,019	2.3%
Total					65,223,101,644	202,136	100.0%
							o.,
AIR Roof Hail Impact Desc	AIR Code				Site Limit	Risk Count	% of Limit
Unknown	0				65,096,365,931	201,861	99.8%
Impact-resistant A	1				14,351,737	40	0.0%
Impact-resistant B	2				1,530,400	6	0.0%
Impact-resistant C	3				2,482,642	3	0.0%
Impact-resistant D	4				108,370,934	226	0.2%
Total					65,223,101,644	202,136	100.0%

Texas Windstorm Insurance Association

Data as of 11/30/2021

RMS Opening Protection, AIR Window Protection, AIR Exterior Doors, AIR Wall Attached Structures

MOD_BLDG_CRE			· · · · · · · · · · · · · · · · · · ·	rior Doors Code AIR Wall Attached Structure Description AIR WallAt	tached Structure Code RMS Ope			dow Code	Site Limit		% of Limi
IBC	Inland1/Inland1	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	219,843,445	732	0.3%
BC	Inland1/Seaward	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	5,675,295	12	0.09
IBC	Inland2/Inland1	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	3,846,932	16	0.0%
BC	Inland2/Inland2	N/A	0 Unknown	0 Unknown	0	0	0	0	82,721,449	227	0.1%
IBC	Retrofit/Null	N/A	0 N/A	0 N/A	0	0	0	0	528,200	2	0.0%
IBC	Seaward/Seaward	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	58,818,526	172	0.1%
IRC	Inland1/Inland1	N/A	0 N/A	0 N/A	0	0	0	0	2,440,320	4	0.0%
IRC	Inland1/Inland1	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	9,760,007,082	24,626	15.0%
IRC	Inland1/Inland1	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	304,000	1	0.0%
IRC	Inland1/Seaward	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	110,524,452	279	0.2%
IRC	Inland2/Inland1	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	92,007,736	225	0.1%
IRC	Inland2/Inland2	N/A	0 Unknown	0 Unknown	0	0	0	0	3,222,973,060	7,240	4.9%
IRC	Inland2/Inland2	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	1,083,600	1	0.0%
IRC	Inland2/Seaward	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	16,799,772	49	0.0%
IRC	Retrofit/Null	N/A	0 N/A	0 N/A	0	0	0	0	10,800,620	26	0.0%
IRC	Retrofit/Null	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	1,533,200	4	0.0%
IRC	Seaward/Seaward	N/A	0 N/A	0 N/A	0	0	0	0	647,000	2	0.0%
IRC	Seaward/Seaward	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	3,523,888,415	7,756	5.4%
RC2018	Missing short text: Inlandl.RiskCategoryl	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	246,400	1	0.0%
IRC2018	Missing short text: Inlandl.RiskCategoryll	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	38,048,620	119	0.1%
IRC2018	Missing short text: InlandII.RiskCategoryII	N/A	0 Unknown	0 Unknown	0	0	0	0	16,560,222	53	0.0%
IRC2018	Missing short text: Seaward.RiskCategoryl	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	2,458,000	3	0.0%
IRC2018	Missing short text: Seaward.RiskCategoryll	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	22,638,754	48	0.0%
N/A	N/A	N/A	0 N/A	0 N/A	0	0	0	0	3,619,609	7	0.0%
N/A	N/A	N/A	0 Unknown	0 Unknown	0	0	0	0	43,354,545,485	149,157	66.5%
N/A	N/A	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	28,427,695	76	0.0%
N/A	N/A	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	40,196,966	107	0.1%
WRC	Inland1/Inland1	N/A	0 Unknown	0 Unknown	0	0	0	0	2,804,473,356	7,021	4.3%
WRC	Inland1/Inland1	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	8,043,320	13	0.0%
WRC	Inland1/Inland1	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	800,000	1	0.0%
WRC	Inland1/Seaward	N/A	0 Unknown	0 Unknown	0	0	0	0	11,508,590	25	0.0%
WRC	Inland2/Inland1	N/A	0 Unknown	0 Unknown	0	0	0	0	525,156,875	1.145	0.8%
WRC	Inland2/Inland2	N/A	0 Unknown	0 Unknown	0	0	0	0	909,923	3	0.0%
WRC	Inland2/Seaward	N/A	0 Unknown	0 Unknown	0	0	0	0	6,951,969	18	0.0%
WRC	Retrofit/Null	N/A	0 N/A	0 N/A	0	0	0	0	397,741,586	1,101	0.6%
WRC	Retrofit/Null	Engineered Shutters	3 Unknown	0 Unknown	0	4	3	3	3,153,876	7	0.0%
WRC	Seaward/Seaward	N/A	0 Unknown	0 Unknown	0	0	0	0	838,997,292	1,847	1.3%
WRC	Seaward/Seaward	Engineered Shutters	3 Reinforced single width doors	3 Reinforced Double Door Garages	5	4	3	3	4,180,000	10	0.0%
Total	Countries Obawaid	Engineered criticis	o melinorceu anigie widin dous	5 Helilloiced Double Door Garages					65,223,101,644	202,136	100.0%

RMS Opening Protection (Detail)

¹ All exterior openings (plazed and non-plazed) are fully protected at a minimum with impact resistant coverings, impact resistant doors (including garage doors) and/or impact resistant window units and meet the requirements for "Cyclic Pressure and Large Missile impact" for large missiles - 9 lb According to ASCE 7, the Florida Building Code (FBC), and the International Building Code (BC), a building in wind-borne debris regions must have openings within 30 feet of the ground meet the requirements of large missile impact tests (ASTM E 1996), and above 30 feet the opening must meet the requirements of small missile impact tests. Use this option for buildings tailer than 30 feet that meet this requirement and have doors (including garage doors) designed for large missiles.

⁴ All glazed exterior openings (windows and doors) are fully protected at a minimum with impact resistant coverings and/or impact resistant window units designed for large missiles (9 lb). Non-glazed doors (including garage doors) are not designed for pressure and impact. According to ASCE 7, the FBC, and the IBC, a building in wind-borne debris regions must have openings within 30 feet of the ground meet the requirements of small missile impact tests. Use this option for buildings taller than 30 feet that meet this requirement.large missile impact tests (ASTM E 1996), and above 30 feet the opening must meet the requirements of small missile impact tests.

Texas Windstorm Insurance Association Data as of 11/30/2021 Roof Age and Roof Year Built

Roof Year	AIR Code	RMS Code	IF Code	CL Code	Site Limit	Risk Count	% of Limit
2017 - 2021	2017 - 2021	1	1	1	13,411,493,404	41,083	20.6%
2012 - 2016	2012 - 2016	2	2	2	11,670,410,673	34,583	17.9%
1859 - 2011	1859 - 2011	3	3	3	39,972,856,903	125,825	61.3%
Pre-2004 and Damaged/Poor Condition	Pre-2004	4	3	1*	168,340,664	645	0.3%
Total					65,223,101,644	202,136	100.0%

Code Descriptions							
RMS	IF	CL					
1: 0-5 yrs	1: 0-5 yrs	1: 0-5 yrs					
2: 6-10 yrs	2: 6-10 yrs	2: 6-10 yrs					
3: 11+ yrs	3:11+ yrs	3: 11-15 yrs					
4: Obvious signs of deterioration		1*: Roof condition poor					

Texas Windstorm Insurance Association Data as of 11/30/2021

RMS Construction Quality, AIR Seal of Approval, and AIR Building Condition

AIR Seal of Approval Description	AIR Code	RMS Code	Site Limit	Risk Count	% of Limit
Unknown	0	0	41,088,851,778	141,481	63.0%
Fully Engineered Structure	1	9	20,473,768,679	48,537	31.4%
Partially Engineered Structure	2	0	3,660,481,187	12,118	5.6%
Total			65,223,101,644	202,136	100.0%

RMS					
Construction Quality					
D: Unknown					
9: Certified design & construction					
1. Unknown					

STRUCTURE_CONDITION_CD	AIR Building Condition Description	AIR Building Condition Code	Site Limit	Risk Count	% of Limit
N/A	Unknown	0	7,086,472,052	18,869	10.9%
Unknown	Unknown	0	2,576,731,926	11,263	4.0%
Average	Average	1	2,306,707,856	10,885	3.5%
Fair	Average	1	113,708,089	760	0.2%
Excellent	Good	2	11,044,398,142	27,522	16.9%
Good	Good	2	23,785,126,107	79,116	36.5%
VeryGood	Good	2	18,308,045,873	53,705	28.1%
Poor	Poor	3	1,911,600	16	0.0%
Total			65,223,101,644	202,136	100.0%

Texas Windstorm Insurance Association Data as of 11/30/2021 Roof Geometry

Set based on "Roof Style" in EV data.

Roof Style	AIR Code	RMS Code	IF Code	CL Code	Site Limit	Risk Count	% of Limit
NULL	0	0	0	0	27,485,877,735	83,589	42.1%
Flat	1	2	2	1	1,275,754,301	3,697	2.0%
Gabled	2	5	3	4	11,889,455,069	44,279	18.2%
Hip	3	3	1	7	11,647,013,650	35,205	17.9%
Mixed	4	5	3	4	12,925,000,889	35,366	19.8%
Total					65,223,101,644	202,136	100.0%

Texas Windstorm Insurance Association Data as of 11/30/2021 AIR Tree Exposure

Set based on "Tree Overhang" in EV data.

Tree Overh	ang AIR Tree Overhang Description	AIR Code	Site Limit	Risk Count	% of Limit
NULL	Unknown	0	27,485,877,735	83,589	42.1%
	0 Unknown	0	21,995,570	49	0.0%
None	No	1	19,002,487,363	55,057	29.1%
High	Yes	2	21,179,992	90	0.0%
Low	Yes	2	16,240,816,404	53,899	24.9%
Medium	Yes	2	2,450,744,581	9,452	3.8%
Total			65,223,101,644	202,136	100.0%

Note: This was all done by Eagle view so looking if house obstructed by Trees not necessarily if nearby so code none as unknown.