

## Evaluation Reports Newly Published in June 2008

REPORT NO.	COMPANY	PRODUCT NAME
<b>ICC-ES Evaluation Reports</b>		
ESR-1027	Fortifiber Corporation	Jumbo Tex, Jumbo Tex HD 30 Minute, Super Jumbo Tex 60 Minute, Fortify, Foam Tex and WeatherSmart, Two-Ply WeatherTex, FortiWrap and PlyDry Water-Resistive Barriers
ESR-1055	LDI Composites Company	Composite Roofing Tile
ESR-1274	GAF Materials Corporation	Ruberiod APP Modified Bitumen Membranes, SBS Modified Bitumen Membranes, SBS Modified Bitumen (Heat-Weld) Membranes, Gafglas Built-up Roofing Felts and Base Sheets
ESR-1342	Georgia-Pacific Wood Products South LLC	Broadspan Laminate Veneer Lumber
ESR-1365	Barrier Technology Corporation	Blazeguard Fire-Rated Sheathing and Mule-Hide FR Deck Panels
ESR-1504	ACH Foam Technologies	Polar R Insulation Boards
ESR-1613	Aquatherm GmbH	Aquatherm GmbH
ESR-1655	Baysystems North America, LLC	Bayseal OC Spray-Applied Polyurethane Insulation
ESR-1662	Superior Walls of America, Ltd.	Superior Walls Xi Precast Concrete Foundation Walls
ESR-1726	Irving Materials, Inc. (imi)	imix XS Steel Fibers
ESR-1732	Leisure Pools USA Trading, Inc.	Fiberglass One-Piece Swimming Pool Shells
ESR-1847	SDP Advanced Polymer Products, Inc.	Palisade Synthetic Underlayment
ESR-1851	Viance, LLC	Ecolife II Preservative-treated Wood
ESR-1866	Simpson Strong Tie Co., Inc	LBV, B, HB and BA Series Joist Hangers
ESR-1980	Osmose, Inc.	NatureWood and MicroPro/Smart Sense Pressure Treated Wood
ESR-1988	Mitek Industries, Inc	MiTek Truss Connector Plates: TL18, MT18, MT18HS, TL20 and MT20
ESR-1992	RAS Engineering	RAS Nut Shrinkage Compensating Devices
ESR-2003	SWD Urethane Company	SWD 106 0.5 lb.Quik-Shield and SWD 111 2 lb.Quik-Shield Spray-Applied Polyurethane Foam insulation and SWD 450 2.0 lb.Quik-Shield Poured-In-Place Polyurethane Foam Insulation
ESR-2022	BASF Construction Chemicals, LLC - Wall Systems	Senergy Cement-Board Stucco 500 System and Senergy Cement-Board Stucco 1000 System
ESR-2043	ACH Foam Technologies LLC	ACH Foam Insulation for Use in Roofing Systems Directly Applied to Steel Roof Decks
ESR-2099	InCide Technologies, Inc.	Atlas Tuff-Kote Fiber Reinforced Exterior Stucco System
ESR-2103	Fyfe Co. LLC	Concrete and Masonry Strengthening Using Tyfo Fibrwrap Fiber-Reinforced Composite Systems
ESR-2138	Simpson Strong-Tie Co., Inc.	Power-Driven Fasteners

REPORT NO.	COMPANY	PRODUCT NAME
ESR-2166	Dextra Manufacturing Co., Ltd.	Bartec Mechanical Anchorages for Steel Reinforcing Bars in Concrete
ESR-2192	Greenland Composites Inc.	Veredeck Composite Decking
ESR-2203	Simpson Strong-Tie Co., Inc.	HTU and LUCZ Hangers
ESR-2231	Pazkar Ltd.	Rapidflex and Elastopaz Liquid-Applied Waterproofing Membranes
ESR-2240	Osmose, Inc.	Osmose Micropro[MCA Preservative-Treated Wood
ESR-2344	Material Holdings, Inc.	Precision Wire Metal Lath, 1-inch x 0.86 lb/yd <sup>2</sup> Woven Wire Lath and 1½-inch x 1.40 lb/yd <sup>2</sup> Woven Wire Lath
ESR-2357	BASF Construction Chemicals, LLC - Wall Systems	Finestone Finescreen 500 System and Finestone Finescreen 1000 System
ESR-2358	BASF Wall Systems, Inc.	SonoWall CBWall 500 System and SonoWall CBWall System
ESR-2359	BASF Wall Systems, Inc.	Acrocrete Acrowall-CBS 500 System and Acrocrete Acrowall-CBS System
ESR-2362	MiTek Industries Inc.	The Stabilizer
ESR-2367	Shengzhou Municipal Weifa Companies Co., Ltd.	Weifa 2.5 and 3.4 Pound Mesh Metal Lath, and Weifa 3.4 Pound ¾-Inch Rib Metal Lath
ESR-2376	GMC Roofing & Building Paper Products, Inc.	GMCraft 10 Minute, GMCraft 30 Minute and GMCraft 60 Minute Water-Resistive Barriers.
ESR-2380	Environmental Materials, LLC, dba Environmental Stoneworks	Environmental Stoneworks Manufactured Stone Veneer
ESR-2448	Xella Aircrete North America Inc.	Hebel Autoclaved Aerated Concrete (AAC) Panels and Hebel Thin Bed Mortar
ESR-2460	CertainTeed Gypsum, Inc.	GlasRoc Sheathing and GlasRoc Sheathing Type X
ESR-2478	Gaco Western LLC.	Gaco Green 052 Spray Applied Polyurethane Insulation and Gaco Polyfoam 193 Spray Applied Polyurethane Insulation
ESR-2492	Quality Systems, Inc.	PermaCrete Deck Coating Products Finish System
ESR-2503	AVM Industries Inc.	Aussie Membrane (AVM System 500) and Aussie Membrane II (AVM System 502) Liquid-Applied Waterproofing Membranes
ESR-2531	TAMKO Building Products, Inc.	TW Metal and Tile Underlayment
ESR-2536	Sto Corp.	StoQuik Silver I, StoQuik Silver II, StoQuik Silver Next Cement Board Stucco Systems
ESR-2590	Plaskolite, Inc.	Duraplex High Impact Acrylic Sheet
ESR-2591	Plaskolite, Inc.	Optix Acrylic Sheet
ESR-2738	Staco Roof Tile	La Casa Concrete Roof Tiles
<b>BOCA® National Codes Legacy Reports</b>		
21-92	Vestal Manufacturing Enterprises, Inc.	Expanda Post
22-39	Outdoor Technologies Inc.	Liberty Decking

REPORT NO.	COMPANY	PRODUCT NAME
95-43.01	MiTek Industries, Inc.	MiTek MT20 Metal Plate Connector
98-34	Exterior Design Institute	EIFS Inspection Training Program
98-47.01	ParexLahabra, Inc.	SUREWALL Flex AOC System and SUREWALL Flex MM System
<b>Standard Codes Legacy Reports</b>		
2133A	Fi-Foil Company, Inc.	Alfol Type 1A, Vapor Shield AA-2, VR Plus Shield, RBI Shield, Radiant Shield NT, Silver Shield Radiant Barrier, and FSK Shield
9513A	Durafiber, Inc.	Durafiber, Durafiber CFP
<b>NES Legacy Reports</b>		
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<b>Uniform Codes Legacy Reports</b>		
ER-2929	Morton Building Inc.	Morton Truss Plates
ER-3081	Cell-Crete Corporation	Steel Decks with Elastizell
ER-3433	Maxxon Corporation	Gyp-Crete, Gyp-Crete 2000, Therma-Floor, Dura-Cap, Level-Right Underlayments
ER-4144	ET&F Fastening Systems, Inc.	ET&F Pneumatic Fasteners
ER-4590	Four Seasons Solar Products Corp.	Series 230 Patio Enclosure and Roof Panels
ER-4950	Maxxon Corporation	Rapid Floor, Rapid Floor Plus, and Rapid Floor Ultra and Rapid Radiant Gypsum Floor Toppings
ER-5403	R-Crete, Inc.	R-Crete R-Mortar Aid M-2, M-4 and M-5; and R-Mortar Aid Plus M-4+
PFC-5620	Major Industries, Inc.	Guardian 275 Translucent Wall, Skylight and Roof Panels

## Recently Expired Reports:

### ICC-ES Evaluation Reports:

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### BOCA® National Codes Legacy Reports:

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### Standard Codes Legacy Reports:

2124                      9459A

### NES Legacy Reports:

NER-272

### Uniform Codes Legacy Reports:

ER-1842              ER-3198              ER-3442              ER-4997              ER-5011              ER-5141              ER-5144  
ER-5427

## Evaluation Reports Newly Published in May 2008

REPORT NO.	COMPANY	PRODUCT NAME
<b>ICC-ES Evaluation Reports</b>		
ESR-1011	DESA Specialty, LLC	Remington Low-velocity Power-driven Fasteners
ESR-1021	Triter Corporation	Triterine Ceramic Fire Resistance Panel
ESR-1043	W. R. Grace & Co. - Conn.	FlameSafe Through-penetration Fire-stop and Fire-resistive Joint Systems
ESR-1053	Ainsworth Lumber Co. Ltd.	Structural Composite Lumber: 1.7E Durastrand Laminated Strand Lumber (LSL); 1.5E Durastrand Oriented Strand Lumber (OSL); 1.3E Durastrand OSL and 0.8E Durastrand OSL
ESR-1081	Wood Treatment Products, Inc.	ES+Wood Preservative-Treated Wood
ESR-1137	ITW Red Head	ITW Red Head Epcon G5 Adhesive Anchoring System
ESR-1229	FrameMax, Inc.	FrameMax Load-Bearing and Nonload-Bearing Wall Steel Studs and Tracks
ESR-1231	E-Z Taping Systems, Inc.	EZ Taping System "Fire Tape" Drywall Tape
ESR-1262	Anthony-Domtar Inc.	Power Joist ADI-40, ADI-60 and ADI-80 I-Joists
ESR-1280	United Steel Products Company	USP Structural Connectors
ESR-1362	Reflectix, Inc.	Reflectix Insulation
ESR-1383	BioBased Insulation, LLC	BioBased 501w Spray Foam Insulation
ESR-1575	United Steel Products Company	USP Hold-Down Connectors
ESR-1614	Alcan Composites USA	Fome-Cor Board
ESR-1623	California Expanded Metal Products Company	CEMCO Metal Lath Products
ESR-1770	APEX Construction Systems, Inc.	APEX Block Interlocking System
ESR-1799	ITW Ramset	ITW Ramset Power-Driven Fasteners, Power Point Fasteners and Angle Clip Fasteners
ESR-1801	Temo, Inc.	Temo, Inc.
ESR-1863	BASF Corporation	Protectol CX Preservative-Treated Wood
ESR-1987	Neverleak Company, LP	Neva-Calk and Neo-Poly Vent Pipe Flashings
ESR-1994	CHH Woodproducts	Z-Span Laminated Veneer Lumber (LVL)
ESR-2019	Northeast Fireshield, Inc.	Inspecta-Shield Fire-retardant Coating
ESR-2057	NAHB Research Center	Standard for Wood-Based Structural-Use Panels

REPORT NO.	COMPANY	PRODUCT NAME
ESR-2104	United Steel Products Company	USP Structural Connectors: A3 Framing Angle; AC Framing Angles; HTW, MTW and LTW Twist Strap Ties; JH Joist Hangers; LFTA6 Strap Tie; PHXU Beam and Purlin Hangers; SNP Skewable Nailer Plate; SW, SWH and KHW Top Mount Hangers
ESR-2213	Thermal Ceramics, Inc.	FireMaster Fire Protection System for Grease Ducts
ESR-2246	Jumpstart Consultants, Inc.	Guardwrap LP Housewrap and Guardwrap HP Housewrap, Dryline W Building Wrap, Dryline LP Building Wrap, Dryline HP Building Wrap, Dryline Raindrain Drainage Wrap, Pro-installer Moldblocker Housewrap and Denny Energy Wrap
ESR-2345	North American East Steel Pipe, Inc.	Omega 3.4 Diamon Mesh Metal Lath, Omega 3.4 High Rib Metal Lath
ESR-2386	Shakertown 1992, Inc.	Shakertown Cedar Siding
ESR-2429	BASF Construction Chemicals LLC	PermaLath 1000 Glass Fiber Lath
ESR-2481	Dayton Superior Corporation	Taperlock Reinforcing Bar Mechanical Splice Couplers
ESR-2528	Sandstone Inc., dba Stoneworth Building Products	Stoneworth Building Products Flat and Venetian Concrete Roof Tiles
ESR-2579	ITW Ramset	ITW Ramset Trakfast Fasteners
ESR-2598	Coronado Stone Products	Coronado Stone Products Precast Concrete Stone and Brick Veneer
ESR-2638	HGP	HomeGuard Housewrap
ESR-2642	BASF Polyurethane Foam Enterprises LLC	BASF Polyurethane Foam Enterprises Spray-Applied Insulations: SPRAYTITE 158, SPRAYTITE 178, SPRAYTITE 81205, SPRAYTITE 81206, COMFORT FOAM 158, COMFORT FOAM 178 and WALLTITE
ESR-2685	United Steel Products Company	Index of United Steel Products Company (USP) Joist Hangers, Straps, Hold-Downs and Similar Connectors
ESR-2726	TVM Building Products	TVM Building Products Fireblock and Sealant One-Component Foam Sealant
ESR-2729	San-Kote, Inc.	San-Kote Stucco System
ESR-2732	Somar Industries Ltd.	PermaCoat and UniCoat Exterior Wall Stucco Systems
ESR-2752	United Steel Products Company	USP Lumber Connectors: Burterfly Hanger CLBF Series, Rafter Clip and Stud Plate HCPRS Series, Hurricane Anchor HCPL Series, Truss Tie-Down Strap (True Tie) HDPT Series, Girder Truss Strap/Hold-Down SGP Series, Joist Hanger HUS Series
ESR-2753	United Steel Products Company	USP Lumber Connectors: CMST Coiled Strap Tie, HTT Heavy Tension Tie Strap Anchor, HUS Joist Hanger, JUS2x Joist Hanger, JUS Joist Hanger, MPF Nail Plate Tie Strap, PAU Post Base Support, RSPT4 Reversible Stud-Plate Tie, SPT Stud-Plate Tie Strap, SPTH Stud-Plate Tie Strap, THDH Joist Hanger

REPORT NO.	COMPANY	PRODUCT NAME
ESR-2754	United Steel Products Company	USP Lumber Connectors: THF Face Mount Hangers, HD Face Mount Hangers, THO Top Mount Hangers, HHDO Top Mount Hangers, HDO Top Mount Hangers, THD Face Mount Truss Hangers, SKH Skewed Hangers, TMU Adjustable Rafter Connectors, TMP Self-Adjusting Bearing Clips
ESR-2755	United Steel Products Company	USP Lumber Connectors: LBH and HLBH Joist Hangers, BPH Beam Hangers, PH, PHI, PHM, and PHX Beam and Purlin Hangers, MSH Multi-Purpose Strap Hangers, GT Girder Truss Hangers, TMPH Adjustable Rafter Connectors, MP Field Adjustable Framing Angles, SBP Supplemental Bearing Plates, LSTI, KSTI, KST, and ST Strap Ties, RS Rolled Strap, WBT, RWB, and WBC Wall Bracing PA Post Anchors, KCC and KECC Column Cap Connectors
ESR-2756	United Steel Products Company	USP Lumber Connectors: JN and HJNE Joist Hangers, HH Header Hangers, FH and FHD Purlin Hangers, HJC Hip Jack Hangers, LS Adjustable Slope Hangers, ZC Blocking Hangers, SFC Framing Clip Hangers, TC Floor Truss Clips, KFTA and KLFTA Floor Tie Straps, SPT Stud-Plate Ties, STC Scissor Truss Connectors KAG Angle Gussets, DSC Drag Strut, HHCP Corner Anchor Connector JPF Joist Hanger Connector, LUGT and LUGTC Girder Tie Connector, MSTC Strap Tie Connector
ESR-2757	United Steel Products Company	USP Lumber Connectors: HTHJ Series, GTU Series, BN Series, HGA Series, KCCQ and KECCQ Series
ESR-2758	United Steel Products Company	USP Lumber Connectors: JE, JL, JR and JY Series Joist Hangers, N, O, G, MBG and MB Series Bridging, MP Series Framing Anchors, MPH Series Masonry Purlin Hangers, S and WB Series Wall Bracing, PB, PBES, and PBS Series Post-beam Connectors, EPCM and PCM Series Post-Beam Connectors, JA Series Joist Angle, S Series Connectors, LSTA and MSTA Series Strap Ties, RT Series Rafter Tie Connectors, LSSH Light Slopeable/Skewable Hanger Connector Series
<b>BOCA® National Codes Legacy Reports</b>		
21-61	3M Fire Protection Products	3M Fire Barrier Duct Wrap 15A
<b>Standard Codes Legacy Reports</b>		
2405	Crown Column & Millwork, LLC	Crown Stock Fiberglass Column
9504B	Hubbel Corporation / A.B. Chance Co.	HELICAL Pier Foundation Systems
9551A	Amerrock Products, Inc.	Amerrock Side Wall Spray Insulation
<b>NES Legacy Reports</b>		
NER-487	MiTek Industries	J Series Joist Hangers, ASH Series Strap Hangers, H Series Hurricane Anchors, L Series Framing Angles, PC44 Post Caps, PAA44 Post Bases
NER-528	Mitten Inc.	Mitten Vinyl Siding
NER-555	Finnforest OY	Master Plank Laminated Veneer Lumber
NER-593	PGI Fabrene Inc.	Air-Gard Housewrap
NER-705	Royal Outdoor Products	Brock Deck and Triple Crown Fence

REPORT NO.	COMPANY	PRODUCT NAME
Uniform Codes Legacy Reports		
ER-3967	ERICO, Inc.	Reinforcing Steel Couplers and Splices
ER-5367	Doc's Marketing Corporation	I-LAG Brand Eye Lag Screws and Wire System
ER-5378	Earthbound Corporation	The EARTHBOUND Seismic Hold-Down System Using the "Impasse Device"
ER-6061	Jowat Swiss AG	JOWAPUR Liquid One-Component Polyurethane Adhesives
ER-6171	Pacific Award Metals, Inc.	Stealth Ridge Vent

## Recently Expired Reports:

### ICC-ES Evaluation Reports:

ESR-1330      ESR-1378

### BOCA® National Codes Legacy Reports:

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### Standard Codes Legacy Reports:

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### NES Legacy Reports:

NER-588

### Uniform Codes Legacy Reports:

ER-1412      ER-3216      ER-4869      ER-5513      ER-5546

## Evaluation Reports Newly Published in April 2008

REPORT NO.	COMPANY	PRODUCT NAME
<b>ICC-ES Evaluation Reports</b>		
ESR-1017	United States Tile Co.	Monarch Mission Clay Roofing Tile
ESR-1070	Nascor Ltd.	Nascor III Wall System
ESR-1132	W.R. Grace & Co. - Conn.	Grace Tri-Flex 30 Roofing Underlayment
ESR-1133	Gentek Building Products, Inc.	Gentek and Revere Vinyl Sidings and Soffits
ESR-1169	Consolidated Systems, Inc.	CSi Steel Floor and Roof Deck Panels
ESR-1214	Spears Manufacturing Company	Spears LabWaste CPVC Corrosive Waste Drainage System
ESR-1259	Ecolite Concrete USA, Inc.	Ecolite Metal Stud-Framed Lightweight Concrete Wall Panels
ESR-1301	Louisiana Pacific Corporation (LP)	LP SmartSide Precision Lap and LP SmartSide Precision Panel Siding
ESR-1475	GAF Materials Corporation	Elk Prestique, Capstone, Domain Ashford, and SBS High Profile Hip and Ridge Shingle Roofing Systems
ESR-1515	Kryton International Inc.	Krystol Internal Membrane (KIM)
ESR-1534	W.R. Grace & Co. - Conn.	Tri-Flex Xtreme Roofing Underlayment
ESR-1546	Hilti, Inc.	Hilti HDA Carbon Steel and Stainless Steel Undercut Anchors for Cracked and Uncracked Concrete
ESR-1615	NCFI Polyurethanes	Insulstar Spray Applied Polyurethane Insulation
ESR-1622	Simpson Strong-Tie Company, Inc.	Simpson Strong-Tie Post Base Connectors for Wood Construction
ESR-1675	Fasten Seal Products LLC	Fasten Seal Furring Fastener System
ESR-1898	Temlam Inc., A Tembec/SGF Rexfor Company	Temlam Laminated Veneer Lumber
ESR-2026	Crane Composites, Inc.	Duralite, Duralite High Strength, SunStrong PRS, SunStrong PRS High Strength, SunStrong PRS Curtainwall, SunStrong PRS Curtainwall High Strength and ISO-Tuff Fire Rated High Strength Fiber-Reinforced Plastic Panels
ESR-2042	Max USA Corporation	CP-C619V5, CP-C625V5, CP-C822W8, CCP65W8-H, CP-C825W8, CP-C835W8, CP-C840W8, and CP-C852W8 Max USA Corporation Power Driven Fasteners



REPORT NO.	COMPANY	PRODUCT NAME
ESR-2075	Avanti Wire Products	Avanti Self-furred and Flat Woven-wire Fabric Lath
ESR-2152	Concrete Technology Corporation	Ultra-Span Precast, Prestressed Hollow-Core Slabs
ESR-2252	Qingdao G&E Bio-Polytex Co., Ltd.	G & E Houseguard; Houseguard2; EasyGard; and EasyGard2 Water-Resistive Barriers
ESR-2342	Cherokee Metal Products Inc.	Cherokee Truss Plate Connectors Type A, Type B and Type S
ESR-2467	Schluter Systems LP	Schluter - Kerdi and Schluter - DITRA Waterproofing Membranes
ESR-2476	Raven Industries	Fortress Pro "Weather Protective Barrier"
ESR-2506	United Fibers, LLC	Nature Blend Loose-Fill Insulation, Nature Blend Stabilized Insulation and Nature Blend Stabilized Insulation-Borate Formula
ESR-2529	CompuTrus Inc.	CompuTrus C Series and CN Series Connector Plates for Wood Trusses
ESR-2603	Paramount U.S.A. Inc.	1.5-inch Non-Paperback Woven Wire Lath and 1-inch Non-Paperback Woven Wire Lath
ESR-2604	Simpson Strong-Tie Company Inc.	Simpson Strong-Tie Column Caps for Wood Construction
ESR-2605	Simpson Strong-Tie Company Inc.	Simpson Strong-Tie Connectors for Metal Plate Connected Wood Truss Construction
ESR-2607	Simpson Strong-Tie Company Inc.	Simpson Strong-Tie Connectors for Panelized Roof Construction
ESR-2608	Simpson Strong-Tie Company Inc.	Stud Shoes, Plate Ties, Wall Bracing, and Joist Bridging for Wood Construction
ESR-2616	Simpson Strong-Tie Company Inc.	Simpson Strong-Tie Connectors for Wood Members Supported by Concrete or Masonry Construction
ESR-2663	J & D Shake and Cedar Mill Ltd.	Western Red Cedar Shakes and Shingles
<b>BOCA® National Codes Legacy Reports</b>		
90-31.01	Maxxon Corp.	Gyp-Crete, Gyp-Crete 2000, Therma-Floor and Dura-Cap
97-78.01	Pactiv Building Products	GreenGuard Insulation Boards: GreenGuard - CM, GreenGuard - CMX, GreenGuard - SL, GreenGuard - SLX, GreenGuard - SB, GreenGuard - DV
<b>Standard Codes Legacy Reports</b>		
9430A	Superior Metal Products Company	Structural Roof Components
<b>NES Legacy Reports</b>		
NER-572	Georgia-Pacific Gypsum LLC	Gypsum Tile Backer Board
<b>Uniform Codes Legacy Reports</b>		
ER-5377	Royalite Mfg. Inc.	Royalite Residential Series Acrylic Dome and Singlelite Glass Skylights

REPORT NO.	COMPANY	PRODUCT NAME
ER-5695	RGM Products, Inc.	"SBS High Profile Hip and Ridge," "King Ridge", "WestRidge", Owens Corning "High Style Hip & Ridge Shingle with Sealant," GAF "PacificRidge," CertainTeed "ElevationRidge," "Ridglass II" and "Contour Ridge" Hip and Ridge Shingles
ER-5696	RGM Products, Inc.	IceGard MS, IceGard PS and IceGard PS Plus Severe Climate Underlayments

## Recently Expired Reports:

### ICC-ES Evaluation Reports:

ESR-1535

### BOCA® National Codes Legacy Reports:

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### Standard Codes Legacy Reports:

2306A      9432A      9825A      9964B

### NES Legacy Reports:

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### Uniform Codes Legacy Reports:

ER-4566      ER-4583      ER-4889      ER-5078      ER-5175      ER-5184      ER-5271  
ER-5328      ER-5477      PFC-5557      ER-5845      ER-5880      ER-6119