

Aon Sprinkler Certification

List of Approved Sprinklers as at

27 January 2010

Listing No	Manufacturer	SIN No	Model/Designation	Type	Response	Thread (mm)	K Factor (L/min & kPa)	Listing applicant	Listing Date	Reference	Listing basis	Special Conditions	Range Limitations
VK-1	Viking	VK108	Fusible Link Sprinkler	Spray Upright	Standard	15	8	Viking	12-Oct-07	Viking Datasheet 18a-f June 1 07	UL Listing certificates	Use Listed Spanners and eschutcheons as described in data sheet	
VK-2	Viking	VK110	Fusible Link Sprinkler	Spray Pendent	Standard	15	8	Viking	12-Oct-07	Viking Datasheet 18a-f June 1 07	UL Listing certificates	Use Listed Spanners and eschutcheons as described in data sheet	
VK-3	Viking	VK204	Fusible Link Sprinkler	Spray Upright	Standard	20	11.5	Viking	12-Oct-07	Viking Datasheet 18a-f June 1 07	UL Listing certificates	Use Listed Spanners and eschutcheons as described in data sheet	
VK-4	Viking	VK206	Fusible Link Sprinkler	Spray Pendent	Standard	20	11.5	Viking	12-Oct-07	Viking Datasheet 18a-f June 1 07	UL Listing certificates	Use Listed Spanners and eschutcheons as described in data sheet	
V-1	Victaulic	V2703	V27 Spray Sprinkler	Spray Upright	Standard	15	8	Steel & Tube	15-Nov-07	Victaulic Datasheet 40.10 2544 Rev E 11/04	FM Approval Report J.I. 2D2A3.AH 24 Mar 99	Use manufacturer's spanners and listed recessed eschutcheons. Maximum working pressure 17.2 bar	
V-2	Victaulic	V2704	V27 Spray Sprinkler	Spray Upright	Quick	15	8	Steel & Tube	15-Nov-07	Victaulic Datasheet 40.10 2544 Rev E 11/05	FM Approval Report J.I. 2D2A3.AH 24 Mar 100	Use manufacturer's spanners and listed recessed eschutcheons. Maximum working pressure 17.2 bar	
V-3	Victaulic	V2707	V27 Spray Sprinkler	Spray Pendent	Standard	15	8	Steel & Tube	15-Nov-07	Victaulic Datasheet 40.10 2544 Rev E 11/06	FM Approval Report J.I. 2D2A3.AH 24 Mar 101	Use manufacturer's spanners and listed recessed eschutcheons. Maximum working pressure 17.2 bar	
V-4	Victaulic	V2708	V27 Spray Sprinkler	Spray Pendent	Quick	15	8	Steel & Tube	15-Nov-07	Victaulic Datasheet 40.10 2544 Rev E 11/07	FM Approval Report J.I. 2D2A3.AH 24 Mar 102	Use manufacturer's spanners and listed recessed eschutcheons. Maximum working pressure 17.2 bar	
V-5	Victaulic	V2736	V2736 Concealed Residential Sprinkler	Concealed Residential	Residential	15	7.1	Steel & Tube	28-Feb-08	Victaulic Datasheet 40.42 3548 Rev 5/04	UL Online Certifications Directory VKKW.EX5188	Use manufacturer's wrenches	
V-6	Victaulic	V3806	V3806 Concealed Residential Sprinkler	Concealed Residential	Residential	15	8.1	Steel & Tube	28-Feb-08	Victaulic Datasheet 40.43 3607 Rev D 11/04	UL Online Certifications Directory VKKW.EX5188	Use manufacturer's wrenches	
V-7	Victaulic	V4402	V4402 Suppression Mode Sprinkler	Suppression Mode Sprinkler	Fast	20	20	Steel & Tube	28-Apr-08	Victaulic Datasheet 40.82 Rev B	UL Online Certifications Directory VNVH.EX5245	Use manufacturer's wrenches. Not FM Approved. Care required to ensure that correct design criteria and applications used.	
V-8	Victaulic	V4404	V4404 Suppression Mode Sprinkler	Suppression Mode Sprinkler	Fast	20	24.3	Steel & Tube	28-Apr-08	Victaulic Datasheet 40.86 Rev A	UL Online Certifications Directory VNVH.EX5245	Use manufacturer's wrenches. Design and install in accordance with FM Global Engineering Bulletin 07-08	
V-11	Victaulic	V4601	LP-46 Low Pressure Storage Sprinkler	CMSA Sprinkler	Standard	25	36.8		4-Sep-08	Victaulic Datasheet 40.95_1 Rev B	FM Global Engineering Bulletin 07-08 Dated 30 June 2008	Use manufacturer's wrenches. Not FM Approved. Care required to ensure that correct design criteria and applications used.	
PI-01	Paradise	PI1210	PI1210 Spray Sprinkler	Spray Upright	Standard	15	8	Global Fire Protection	25-Jun-08		FM Approval Report	Install in accordance with manufacturer's instructions... Maximum installation torque 28.5Nm...	
PI-02	Paradise	PI1211	PI1211 Spray Sprinkler	Spray Upright	Quick	15	8	Global Fire Protection	25-Jun-08		FM Approval Report	Do not remove protective cap prior to installation	
PI-03	Paradise	PI221	PI1221 Spray Sprinkler	Spray Pendent	Quick	15	8	Global Fire Protection	25-Jun-08		FM Approval Report	Install in accordance with manufacturer's instructions... Maximum installation torque 28.5Nm...	
PI-04	Paradise	PI220	PI1220 Spray Sprinkler	Spray Pendent	Standard	15	8	Global Fire Protection	25-Jun-08		FM Approval Report	Do not remove protective cap prior to installation	
TY-01.1	Tyco	TY3251	TY-B Spray Sprinkler	Spray Pendent	Standard	15	8	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches	Maximum Working Pressure 17 bar
TY-01.2	Tyco	TY3151	TY-B Spray Sprinkler	Spray Upright	Standard	15	8	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches	Maximum Working Pressure 17 bar
TY-01.3	Tyco	TH4251	TY-B Spray Sprinkler	Spray Pendent	Standard	20	11.5	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches	
TY-01.4	Tyco	TY4151	TY-B Spray Sprinkler	Spray Upright	Standard	20	11.5	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches	
TY-01.5	Tyco	TY4851	TY-B Spray Sprinkler	Spray Upright - Special Application	Standard	15	11.5	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches For use in retrofit applications only	
TY-01.6	Tyco	TY1231	TY-B Spray Sprinkler	Spray Pendent - Special Application	Standard	15	11.5	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches For use in retrofit applications only	
TY-01.7	Tyco	TY4951	TY-B Spray Sprinkler	Spray Upright - Special Application	Standard	15	4	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches	
TY-01.8	Tyco	TY1131	TY-B Spray Sprinkler	Spray Pendent - Special Application	Standard	15	4	Tyco	1-Oct-08	TFP151	UL On-Line Certifications Directory VNVV.EX5985	Use manufacturer's wrenches	

TY-02.1	Tyco	TY3131	TY-FRB Spray Sprinkler	Spray Upright	Quick	15	8	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	Maximum Working Pressure 17 bar
TY-02.2	Tyco	TY3231	TY-FRB Spray Sprinkler	Spray Pendent	Quick	15	8	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	Maximum Working Pressure 17 bar
TY-02.3	Tyco	TY4231	TY-FRB Spray Sprinkler	Spray Pendnet	Quick	20	11.5	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	
TY-02.4	Tyco	TY4131	TY-FRB Spray Sprinkler	Spray Upright	Quick	20	11.5	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	
TY-02.5	Tyco	TY4831	TY-FRB Spray Sprinkler	Spray Upright - Special Application	Quick	15	20	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches For use in retrofit applications only	
TY-02.6	Tyco	TY4931	TY-FRB Spray Sprinkler	Spray Pendent - Special Application	Quick	15	20	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches For use in retrofit applications only	
TY-02.7	Tyco	TY1131	TY-FRB Spray Sprinkler	Spray Upright - Special Application	Quick	15	4	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	
TY-02.8	Tyco	TY1231	TY-FRB Spray Sprinkler	Spray Pendent - Special Application	Quick	15	4	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	
TY-02.9	Tyco		TY-FRB Spray Sprinkler	Spray Pendent - Special Application	Quick	15	6	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	
TY-02.10	Tyco	TY2231	TY-FRB Spray Sprinkler	Spray Upright - Special Application	Quick	15	6	Tyco	1-Oct-08	TFP171	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	
TY-03.1	Tyco	TY3551	RF-11 Concealed Sprinkler	Spray Pendnet Sprinkler	Quick	15	8	Tyco	1-Oct-08	TFP181	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	Maximum Working Pressure 17 bar
TY-03.2	Tyco	TY3531	RF-11 Concealed Sprinkler	Spray Pendnet Sprinkler	Standard	15	8	Tyco	1-Oct-08	TFP181	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	Maximum Working Pressure 17 bar
TY-04.1	Tyco	TY3388	WS Horizontal Window Sprinkler	Special Application Sprinkler - Window Drencher	Fast	15	8	Tyco	1-Oct-08	TFP620	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches	
TY-04.2	Tyco	TY3488	WS Pendent Window Sprinkler	Special Application Sprinkler - Window Drencher	Fast	15	8	Tyco	1-Oct-08	TFP620	UL On-Line Certifications Directory VNI.V.EX5985	Use manufacturer's wrenches Use manufacturer's wrenches	
TY-05.1	Tyco	TY3255	DS-1 Dry Sprinkler	Dry SSP Sprinkler	Standard	25	8	Tyco	1-Oct-08	TFP500	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	
TY-05.2	Tyco	TY3155	DS-1 Dry Sprinkler	Dry SSU Sprinkler	Standard	25	8	Tyco	1-Oct-08	TFP500	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	
TY-05.3	Tyco	TY3355	DS-1 Dry Sprinkler	Dry HSW Sprinkler	Standard	25	8	Tyco	1-Oct-08	TFP500	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	
TY-06.1	Tyco	TY3235	DS-1 Dry Sprinkler	Dry SSP Sprinkler	Quick	25	8	Tyco	1-Oct-08	TFP510	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	
TY-06.2	Tyco	TY3135	DS-1 Dry Sprinkler	Dry SSU Sprinkler	Quick	25	8	Tyco	1-Oct-08	TFP510	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	
TY-06.3	Tyco	TY3335	DS-1 Dry Sprinkler	Dry HSW Sprinkler	Quick	25	8	Tyco	1-Oct-08	TFP510	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	
TY-07.1	Tyco	TY3358	DS1 Extended Coverage HSW Dry Sprinkler	Dry EC HSW Sprinkler	Standard	25	8	Tyco	1-Oct-08	TFP520	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	
TY-07.2	Tyco	TY3338	DS1 Extended Coverage HSW Dry Sprinkler	Dry EC HSW Sprinkler	Quick	25	8	Tyco	1-Oct-08	TFP520	UL On-Line Certifications Directory VNI.V.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	

TY-08	Tyco	TY7226	ESFR17 Sprinkler	Suppression Mode Sprinkler	Fast	20	24.2	Tyco	1-Oct-08	TFP315	UL On-Line Certifications Directory VNIW.EX4988	Use manufacturer's wrenches	
TY-09.1	Tyco	TY5111	ELO-231 Sprinkler	Large Orifice SSU Sprinkler	Standard	20	16.1	Tyco	1-Oct-08	TFP340	UL On-Line Certifications Directory VNIW.EX5985	Use manufacturer's wrenches	
TY-09.2	Tyco	TY5211	ELO-231 Sprinkler	Large Orifice SSP Sprinkler	Standard	20	16.1	Tyco	1-Oct-08	TFP340	UL On-Line Certifications Directory VNIW.EX5985	Use manufacturer's wrenches	
TY-09.3	Tyco	TY5811	ELO-231 Sprinkler	Large Orifice SSP Sprinkler	Standard	15	16.1	Tyco	1-Oct-08	TFP340	UL On-Line Certifications Directory VNIW.EX5985	Use manufacturer's wrenches For use in retrofit applications only	
TY-10	Tyco	TY5238	DS-2 EC Dry Sprinkler	Dry EC Pendent Sprinkler	See data sheet	25	See data sheet	Tyco	1-Oct-08	TFP540	UL On-Line Certifications Directory VNIW.EX5985	Use manufacturer's wrenches Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal Refer manufacturer's data sheet for K factor as a function of length	
TY-11.1	Tyco	TY7151	Model K17-231 Sprinkler	Large Orifice SSU Sprinkler	Standard	20	24.2	Tyco	1-Oct-08	TFP332	FM Global Engineering Bulletin 07-08 Dated 30 June 2008	Use manufacturer's wrenches	
TY-11.2	Tyco	TY7251	Model K17-231 Sprinkler	Large Orifice SSP Sprinkler	Standard	20	24.2	Tyco	1-Oct-08	TFP332	FM Global Engineering Bulletin 07-08 Dated 30 June 2008	Use manufacturer's wrenches	
TY-12.1	Tyco	TY5151	ELO-231 B Sprinkler	Spray Upright Sprinkler	Standard	20	16.1	Tyco	1-Oct-08	TFP342	FM Online Approval Guide Sep 08	Use manufacturer's wrenches	
TY-12.2	Tyco	TY5251	ELO-231 B Sprinkler	Spray Pendent Sprinkler	Standard	20	16.1	Tyco	1-Oct-08	TFP342	FM Online Approval Guide Sep 09	Use manufacturer's wrenches	
TY-12.3	Tyco	TY5851	ELO-231 B Sprinkler	Spray Upright Sprinkler	Standard	15	16.1	Tyco	1-Oct-08	TFP342	FM Online Approval Guide Sep 10	Use manufacturer's wrenches For use in retrofit applications only	
TY-13	Tyco	TY9128	EC-25 Sprinkler	Extended Coverage Area Density Sprinkler	Fast	25	36.3	Tyco	1-Oct-08	TFP213	UL On-Line Certifications Directory VNIW.EX5985	Use manufacturer's wrenches	
TY-14	Tyco	TY3232	EC-5 Sprinkler	Extended Coverage Light Hazard sprinkler	Quick	15	8	Tyco	1-Oct-08	TFP 228	UL On-Line Certifications Directory VNIW.EX5985	Use manufacturer's wrenches See Data Sheet Table B for Quick Response Listing Criteria	
TY-15	Tyco	TY7228	EC-17 Sprinkler	Extended Coverage Area Density Sprinkler	Fast	20	24.2	Tyco	1-Oct-08	TFP215	UL On-Line Certifications Directory VNIW.EX5985	Use manufacturer's wrenches See Data Sheet for maximum allowable spacing	
TY-16	Tyco	TY2234	LF-II Residential Pendent Sprinkler	Pendent Residential Sprinkler	Residential	15mm	7.06	Tyco	1-Oct-08	TFP400	UL Online Certifications Directory VKKW.EX4991	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP490	
TY-17	Tyco	TY4324	LF-II Residential NFPA13 Optimized Pendent and Cocealed Sprinkler	Pendent Residential Sprinkler	Residential	20	9.94	Tyco	1-Oct-08	TFP408	UL Online Certifications Directory VKKW.EX4992	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP491	
TY-18	Tyco	TY1334	LF-II Residential Horizontal Sprinkler	Horizontal Residential Sprinkler	Residential	15	6.05	Tyco	1-Oct-08	TFP410	UL Online Certifications Directory VKKW.EX4993	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP492	
TY-19	Tyco	TY3334	LF-II Residential Horizontal Sprinkler, NFPA13 Optimized	Horizontal Residential Sprinkler	Residential	15	8.06	Tyco	1-Oct-08	TFP415	UL Online Certifications Directory VKKW.EX4994	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP493	
TY-20	Tyco	TY4334	LF-II Residential Horizontal Sprinkler, NFPA13 Optimized	Horizontal Residential Sprinkler	Residential	15	8.35	Tyco	1-Oct-08	TFP417	UL Online Certifications Directory VKKW.EX4995	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP494	
TY-21	Tyco	TY2284	LF-II Flush Residential Sprinkler	Pendent Residential Sprinkler	Residential	15	6.05	Tyco	1-Oct-08	TFP420	UL Online Certifications Directory VKKW.EX4996	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP495	

TY-22	Tyco	TY2384	LF-II Flush Horizontal Residential Sprinkler	Horizontal Residential Sprinkler	Residential	15	6.05	Tyco	1-Oct-08	TFP425	UL Online Certifications Directory VKKW.EX4997	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP496	
TY-23	Tyco	TY2596	LF-II Residential Concealed Flat Plate Sprinkler	Pendent Residential Sprinkler	Residential	15	6.05	Tyco	1-Oct-08	TFP440	UL Online Certifications Directory VKKW.EX4998	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP497	
TY-24	Tyco	TY3596	LF-II Residential Concealed Flat Plate Sprinkler	Pendent Residential Sprinkler	Residential	15	7.06	Tyco	1-Oct-08	TFP442	UL Online Certifications Directory VKKW.EX4999	Use Manufacturer's wrenches. For NZS4541 application, a minimum density of 4.1mm/min is required in addition to Listing Criteria provided in Manufacturer's data sheet, and Manufacturer's Installation Guide TFP498	
TY-25	Tyco	TY7126	ESFR K17 Upright Sprinkler	Upright Suppression Mode Sprinkler	Fast	20	24.2	Tyco	1-Oct-08	TFP 316	FM Approvals Guide	Use manufacturer's wrenches	
TY-26.1	Tyco	TY3555	Series DS-C Concealed Dry Sprinkler	Pednet Dry Sprinkler	Standard	25	8	Tyco	1-Oct-08	TFP515	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches Not for use in Freezer or Coolstore environments Use with DSB-2 boot or equivalent seal	
TY-26.2	Tyco	TY3535	Series DS-C Concealed Dry Sprinkler	Pednet Dry Sprinkler	Quick	25	8	Tyco	1-Oct-08	TFP516	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches Not for use in Freezer or Coolstore environments Use with DSB-2 boot or equivalent seal	
TY-27	Tyco	TY3302	Series EC-6 Extended Coverage Horizontal Sidewall Sprinklers	Extended Coverage Light Hazard Sidewall Sprinkler	See data sheet	15	8	Tyco	1-Oct-08	TFP298	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches See Data Sheet for design requirements	Highest occupancy limited to OH1 See Data Sheet for Quick Response and Standard Response installation limits
TY-35	Tyco	TY7152	Ultra K17	Specific Application Control Mode Sprinkler	Standard	20	24.2	Tyco	1-Oct-08	TFP330	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches	
TY36.1	Tyco	TY5332	Model SW-20 ECOH-HSW Sprinkler	Extended Coverage Sidewall Sprinkler	Standard	20	16.1	Tyco	1-Oct-08	TFP230	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches See Data Sheet for design criteria	
TY36.2	Tyco	TY5337	Model SW-24 ECOH-HSW Sprinkler	Extended Coverage Sidewall Sprinkler	Standard	20	16.1	Tyco	1-Oct-08	TFP230	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches See Data Sheet for design criteria	
TY37	Tyco	TY3532	RFII Concealed Extended Coverage Pendent Sprinkler	ECLH Sprinkler	Quick	15	8	Tyco	1-Oct-08	TFP260	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches	
TY38.1	Tyco	TY3332	TY-FRB EC HSW LH Sprinkler	ECLH HSW Sprinkler	See data sheet	15	5.6	Tyco	1-Oct-08	TFP296	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches See Data Sheet for design criteria	
TY38.2	Tyco	TY4332	TY-FRB EC HSW LH Sprinkler	ECLH HSW Sprinkler	See data sheet	20	11.5	Tyco	1-Oct-08	TFP296	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches See Data Sheet for design criteria	
TY39	Tyco	TY5339	DS-3 Dry HSW ECOH Sprinkler	ECOH HSW Dry Sprinkler	Standard	25	See Datasheet	Tyco	1-Oct-08	TFP650	UL On-Line Certifications Directory VNIV.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal	Refer to data sheet for design criteria
TY41.1	Tyco	TY5131	ELO-231FRB Sprinkler	Spray Upright Sprinkler	Quick	20	16.1	Tyco	1-Oct-08	TFP344	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches	
TY41.2	Tyco	TY5231	ELO-231FRB Sprinkler	Spray Upright Sprinkler	Quick	20	16.1	Tyco	1-Oct-08	TFP344	UL On-Line Certifications Directory VNIV.EX5985	Use manufacturer's wrenches	
TY42.1	Tyco	TY5255	DS-2 Dry Sprinkler	Dry Pendent Large Orifice Sprinkler	Standard	25	See datasheet	Tyco	1-Oct-08	TFP530	UL On-Line Certifications Directory VNIV.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal Refer manufacturer's data sheet for K factor as a function of length	
TY42.2	Tyco	TY5235	DS-2 QR Dry Sprinkler	Dry Pendent Large Orifice Sprinkler	Quick	25	See datasheet	Tyco	1-Oct-08	TFP530	UL On-Line Certifications Directory VNIV.EX5985	Comply with manufacturer's requirements for minimum lengths Use with DSB-2 boot or equivalent seal Refer manufacturer's data sheet for K factor as a function of length	
TY-43 Rev B	Tyco	TY3281	Raven Pendent Institutional Sprinkler	Spray Pendent Sprinkler	Quick	15	8	Tyco	1-Sep-09	TFP651	UL On-Line Certifications Directory VNIV.EX5985	Use W-Type 25 Wrench	
TY-44 Rev B	Tyco	TY3381	Raven Horizontal Sidewall Institutional Sprinkler	Horizontal Sidewall Sprinkler	Quick	15	8	Tyco	1-Sep-09	TFP651	UL On-Line Certifications Directory VNIV.EX5985	Use W-Type 25 Wrench	

TY-45 Rev B	Tyco	TY3282	Raven Extended Coverage Pendant Institutional Sprinkler	Extended Coverage Light Hazard Pendant Sprinkler	Quick	15	8	Tyco	1-Sep-09	TFP651	UL On-Line Certifications Directory VNIIV.EX5985	Use W-Type 25 Wrench	
TY-46 Rev B	Tyco	TY3382	Raven Extended Coverage Horizontal Sidewall Institutional Sprinkler	Extended Coverage Light Hazard Horizontal Sidewall Sprinkler	Quick	15	8	Tyco	1-Sep-09	TFP651	UL On-Line Certifications Directory VNIIV.EX5985	Use W-Type 25 Wrench	
SP-89	Reliable	R5314	F3 Dry Pendant Sprinkler	Dry Pendant Sprinkler	Standard	15	8	Steel & Tube	25-Sep-09	Bulletin 153 Rev H	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanner. Limitations on use of semi-recessed and concealed heads with pressurised ceiling spaces Comply with manufacturer's recommendations for length above ceiling.	
SP-90	Reliable	R5334	F3 Dry Horizontal Sidewall Sprinkler	Dry Horizontal Sidewall Sprinkler	Standard	15	8	Steel & Tube	25-Sep-09	Bulletin 153 Rev H	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanner. Comply with manufacturer's recommendations for length above ceiling.	
SP-91	Reliable	R3625	F1FR SSU Sprinkler	Spray Upright Sprinkler	Quick	15	8	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-92	Reliable	R3615	F1FR SSP Sprinkler	Spray Pendant Sprinkler	Quick	15	8	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-93	Reliable	R3622	F1FR SSU Sprinkler	Spray Upright Sprinkler	Quick	20	11.5	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-94	Reliable	R3612	F1FR SSP Sprinkler	Spray Pendant Sprinkler	Quick	20	11.5	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-95	Reliable	R3675	F1FR C/UP Sprinkler	Conventional Sprinkler	Quick	15	8	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-96	Reliable	R3672	F1FR C/UP Sprinkler	Conventional Sprinkler	Quick	20	11.5	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-97	Reliable	R3685	F1FR VSW Sprinkler	Vertical Sidewall Sprinkler	Quick	15	8	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-98	Reliable	R3635	F1FR HSW Sprinkler	Horizontal Sidewall Sprinkler	Quick	15	8	Steel & Tube	25-Sep-09	Bulletin 136 Rev O	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-99	Reliable	RA0612	RFC43 Concealed Residential sprinkler	Concealed Residential Sprinkler	Residential	15	6.1	Steel & Tube	25-Sep-09	Bulletin 006 Rev D	UL Onlines certification Directory VKKW.EX3646		
SP-100	Reliable	RA0616	RFC 49 Concealed Residential Sprinkler	Concealed Residential Sprinkler	Residential	15	7.1	Steel & Tube	25-Sep-09	Bulletin 006 Rev D	UL Onlines certification Directory VKKW.EX3646		
SP-101	Reliable	RA0914	RFC56 Concealed Residential Sprinkler	Concealed Residential Sprinkler	Residential	15	8	Steel & Tube	25-Sep-09	Bulletin 009 Rev A	UL Onlines certification Directory VKKW.EX3646		
SP-102	Reliable	R3511	F1 Res 30 Sprinkler	Pendant Residential Sprinkler	Residential	15	4.4	Steel & Tube	28-Sep-09	Bulletin 135 Rev G	UL Onlines certification Directory VKKW.EX3646	Use manufacturer's spanners and listed recessed eschutcheons. Listing includes use of model CCP cover plates and eschutcheons.	
SP-103	Reliable	R3516	F1 Res 49 Sprinkler	Pendant Residential Sprinkler	Residential	15	7.1	Steel & Tube	28-Sep-09	Bulletin 135 Rev G	UL Onlines certification Directory VKKW.EX3646	Use manufacturer's spanners and listed recessed eschutcheons. Listing includes use of model CCP cover plates and eschutcheons.	
SP-104	Reliable	R3513	F1 Res 58 Sprinkler	Pendant Residential Sprinkler	Residential	15	8.4	Steel & Tube	28-Sep-09	Bulletin 135 Rev G	UL Onlines certification Directory VKKW.EX3646	Use manufacturer's spanners and listed recessed eschutcheons. Listing includes use of model CCP cover plates and eschutcheons.	
SP-105	Reliable	R7618	F1 Res 76 Sprinkler	Pendant Residential Sprinkler	Residential	20	10.9	Steel & Tube	28-Sep-09	Bulletin 135 Rev G	UL Onlines certification Directory VKKW.EX3646	Use manufacturer's spanners and listed recessed eschutcheons. Listing includes use of model CCP cover plates and eschutcheons.	
SP-106	Reliable	R3531	F1 Res 44 HSW Sprinkler	Horizontal Sidewall Residential Sprinkler	Residential	15	6.3	Steel & Tube	28-Sep-09	Bulletin 135 Rev G	UL Onlines certification Directory VKKW.EX3646	Use manufacturer's spanners and listed recessed eschutcheons. Listing includes use of model SWC cover plates and eschutcheons.	
SP-107	Reliable	R3533	F1 Res 58 HSW Sprinkler	Horizontal Sidewall Residential Sprinkler	Residential	15	8.3	Steel & Tube	28-Sep-09	Bulletin 135 Rev G	UL Onlines certification Directory VKKW.EX3646	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-108	Reliable	R3538	F1 Res 40 HSW Sprinkler	Horizontal Sidewall Residential Sprinkler	Residential	15	5.7	Steel & Tube	28-Sep-09	Bulletin 135 Rev G	UL Onlines certification Directory VKKW.EX3646	Use manufacturer's spanners and listed recessed eschutcheons.	
SP-109	Reliable	R5525	F1-300 SSU Sprinkler	Spray Upright Sprinkler	Standard	15	8	Steel & Tube	28-Sep-09	Bulletin 155 Rev D	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners.	Maximum working pressure 20.7bar
SP-110	Reliable	R5522	F1-300 SSU Sprinkler	Spray Upright Sprinkler	Standard	20	11.5	Steel & Tube	28-Sep-09	Bulletin 155 Rev D	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners.	Maximum working pressure 20.7bar
SP-111	Reliable	R5515	F1-300 SSP Sprinkler	Spray Pendant Sprinkler	Standard	15	8	Steel & Tube	28-Sep-09	Bulletin 155 Rev D	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	Maximum working pressure 20.7bar
SP-112	Reliable	R5512	F1-300 SSP Sprinkler	Spray Pendant Sprinkler	Standard	20	11.5	Steel & Tube	28-Sep-09	Bulletin 155 Rev D	UL Online Certifications Directory VNIIV.EX454	Use manufacturer's spanners and listed recessed eschutcheons.	Maximum working pressure 20.7bar

