

**CITY OF NEW YORK  
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

**Richard C. Visconti, R.A., Acting Commissioner  
MEA 173-00-M**

**Report of Material and Equipment Acceptance Division**

**Manufacturer - Star Maling Og Lakkfabrikk A/S, P.O. Box 593, Lierstranda, Norway.**

**Trade Name(s) - Carboline Nullifire S605.**

**Product - Mastic coating for fire protection, for Class II Buildings.**

**Pertinent Code Section(s) - 27-323, 27-324.**

**Prescribed Test(s) - RS 5-2 (ASTM E119).**

**Laboratory - Underwriters Laboratories, Inc.**

**Test Report - UL File R11193.**

**Description - Type Nullifire S605 mastic coating with Type TP615 top-coat per requirement of Underwriters Laboratories Inc. is designed to fire-proof interior and exterior steelwork of steel beams, columns, tubes, and pipes in Design Nos.X629, X630 and X631.**

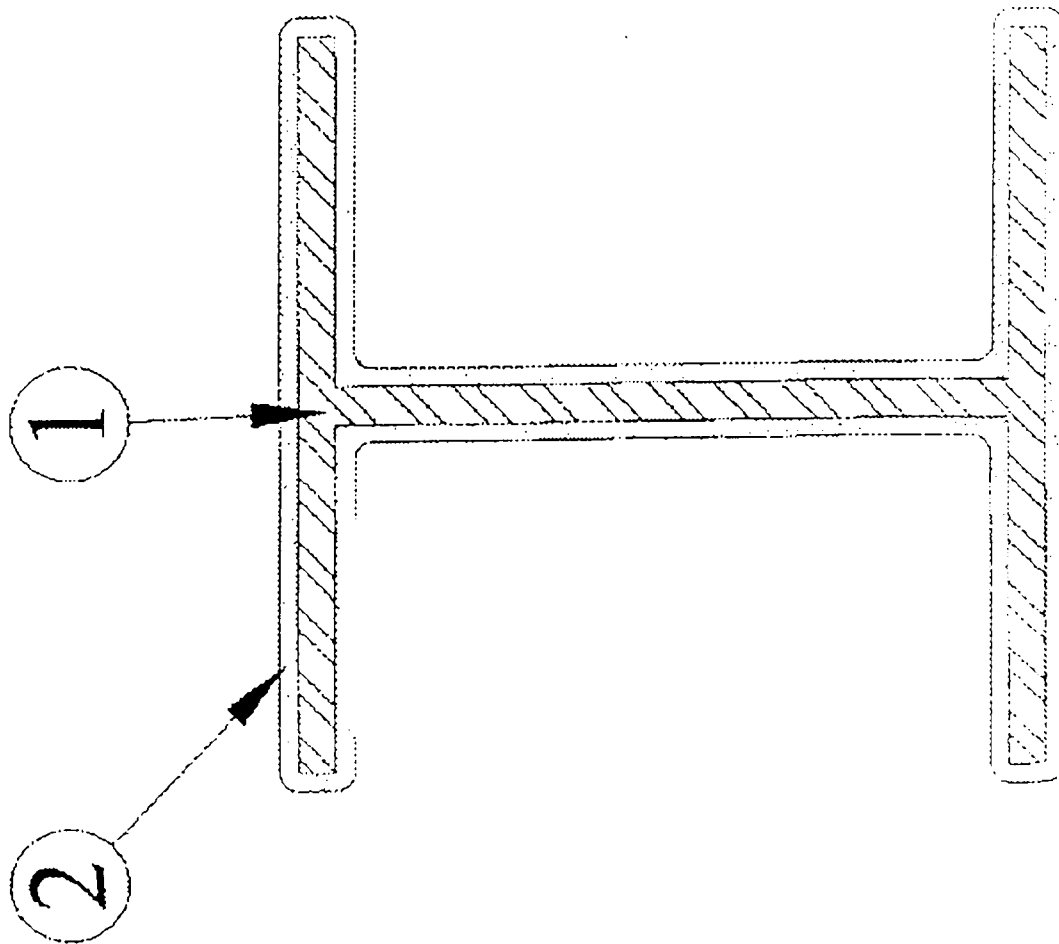
# Fire Resistance Ratings - ANSI/UL 263

## Guide Information

Design No. X629

December 21, 1999

Ratings-1, 1-1/2 and 2 Hr.



1. **Steel Column** Wide flange steel columns with the minimum sizes shown in the tables below. Columns shall be free of dirt, loose scale and oil. Column shall be primed with a red oxide zinc phosphate primer.

2. **Mastic Coating\*** Coating spray, brush or trowel applied directly from containers

to desired thickness. See table below for appropriate final dry thickness.

STEEL SIZE	W/D	Hp/A	1 HR	1-1/2 HR	2 HR
W5x19	0.65	206	0.092	0.175	NR
W6x16	0.58	231	0.092	0.175	NR
W6x25	0.69	194	0.092	0.175	NR
W8x21	0.57	235	0.092	0.175	NR
W8x24	0.59	227	0.092	0.175	NR
W8x28	0.68	197	0.092	0.175	NR
W8x31	0.66	203	0.092	0.175	NR
W8x35	0.74	181	0.067	0.139	NR
W8x40	0.84	159	0.059	0.138	0.217
W8x48	1.00	134	0.059	0.138	0.217
W8x58	1.19	113	0.059	0.138	0.217
W8x67	1.36	99	0.036	0.126	0.217
W10x26	0.61	220	0.092	0.175	NR
W10x30	0.70	191	0.092	0.175	NR
W10x33	0.66	203	0.092	0.175	NR
W10x39	0.78	172	0.067	0.139	NR
W10x45	0.89	151	0.059	0.138	0.217
W10x49	0.84	159	0.059	0.138	0.217
W10x54	0.92	146	0.059	0.138	0.217
W10x60	1.02	131	0.059	0.138	0.217
W10x68	1.14	118	0.059	0.138	0.217
W10x77	1.28	105	0.036	0.126	0.217
W10x88	1.45	92	0.036	0.126	0.217
W10x100	1.63	82	0.036	0.126	0.217
W10x112	1.81	74	0.036	0.126	0.217
W12x30	0.60	223	0.092	0.175	NR
W12x35	0.70	191	0.092	0.175	NR
W12x40	0.74	181	0.067	0.139	NR
W12x45	0.82	163	0.067	0.139	NR
W12x50	0.91	147	0.067	0.139	0.217
W12x53	0.85	158	0.067	0.139	0.217

W12x58	0.93	144	0.067	0.139	0.217
W12x65	0.92	146	0.067	0.139	0.217
W12x72	1.02	131	0.067	0.139	0.217
W12x79	1.11	121	0.067	0.139	0.217
W12x87	1.22	110	0.036	0.126	0.217
W12x96	1.34	100	0.036	0.056	0.217
W12x106	1.46	92	0.036	0.126	0.217
W12x120	1.64	82	0.036	0.126	0.217
W12x136	1.84	73	0.036	0.126	0.217
W12x152	2.04	66	0.036	0.126	0.217
W12x170	2.26	59	0.036	0.126	0.217
W12x190	2.49	54	0.036	0.126	0.217
W12x210	2.72	49	0.036	0.126	0.217
W12x230	2.94	46	0.036	0.126	0.217
W12x252	3.19	42	0.036	0.126	0.217
W12x279	3.48	38	0.036	0.126	0.217
W12x305	3.75	36	0.036	0.126	0.217
W12x336	4.07	33	0.036	0.126	0.217
W14x34	0.63	213	0.092	0.175	NR
W14x38	0.70	191	0.092	0.175	NR
W14x43	0.75	179	0.067	0.139	NR
W14x48	0.83	161	0.059	0.138	0.217
W14x53	0.91	147	0.059	0.138	0.217
W14x61	0.92	146	0.059	0.138	0.217
W14x68	1.03	130	0.059	0.138	0.217
W14x74	1.11	121	0.059	0.138	0.217
W14x82	1.22	110	0.036	0.126	0.217
W14x90	1.07	125	0.059	0.138	0.217
W14x99	1.17	115	0.059	0.138	0.217
W14x109	1.28	105	0.036	0.126	0.217
W14x120	1.40	96	0.036	0.126	0.217
W14x132	1.54	87	0.036	0.126	0.217
W14x145	1.63	82	0.036	0.126	0.217

W14x159	1.77	76	0.036	0.126	0.217
W14x176	1.95	69	0.036	0.126	0.217
W14x193	2.12	63	0.036	0.126	0.217
W14x211	2.30	58	0.036	0.126	0.217
W14x233	2.52	53	0.036	0.126	0.217
W14x257	2.75	49	0.036	0.126	0.217
W14x283	3.00	45	0.036	0.126	0.217
W14x311	3.26	41	0.036	0.126	0.217
W14x342	3.55	38	0.036	0.126	0.217
W14x370	3.80	35	0.036	0.126	0.217
W14x398	4.04	33	0.036	0.126	0.217
W14x426	4.29	31	0.036	0.126	0.217
W14x455	4.54	30	0.036	0.126	0.217
W14x500	4.91	27	0.036	0.126	0.217
W14x550	5.32	25	0.036	0.126	0.217
W14x605	5.75	23	0.036	0.126	0.217
W14x665	6.21	22	0.036	0.126	0.217
W14x730	6.68	20	0.036	0.126	0.217
W16x31	0.59	227	0.092	0.175	NR
W16x36	0.62	216	0.092	0.175	NR
W16x40	0.68	197	0.092	0.175	NR
W16x45	0.76	176	0.067	0.139	NR
W16x50	0.84	159	0.059	0.138	0.217
W16x57	0.95	141	0.059	0.138	0.217
W16x67	0.93	144	0.059	0.138	0.217
W16x77	1.06	126	0.059	0.138	0.217
W16x89	1.22	110	0.036	0.126	0.217
W16x100	1.36	99	0.036	0.126	0.217
W18x35	0.60	223	0.092	0.175	NR
W18x40	0.68	197	0.092	0.175	NR
W18x46	0.78	172	0.067	0.139	NR
W18x50	0.77	174	0.067	0.139	NR
W18x55	0.85	158	0.067	0.139	0.217

W18x60	0.92	146	0.059	0.138	0.217
W18x65	0.99	135	0.059	0.138	0.217
W18x71	1.08	124	0.059	0.138	0.217
W18x76	0.96	140	0.059	0.138	0.217
W18x86	1.08	124	0.059	0.138	0.217
W18x97	1.12	111	0.059	0.138	0.217
W18x106	1.32	101	0.036	0.126	0.217
W18x119	1.47	91	0.036	0.126	0.217
W21x44	0.67	200	0.092	0.175	NR
W21x50	0.76	176	0.067	0.139	NR
W21x57	0.85	158	0.059	0.138	0.217
W21x62	0.85	158	0.059	0.138	0.217
W21x68	0.92	146	0.059	0.138	0.217
W21x73	0.99	135	0.059	0.138	0.217
W21x83	1.12	120	0.059	0.138	0.217
W21x93	1.24	108	0.060	0.063	0.217
W21x101	1.23	120	0.065	0.120	0.174
W21x111	1.23	109	0.059	0.138	0.217
W21x122	1.34	100	0.059	0.138	0.217
W21x132	1.45	92	0.059	0.138	0.217
W21x147	1.60	84	0.059	0.138	0.217
W24x55	0.75	179	0.067	0.139	NR
W24x62	0.84	159	0.059	0.138	0.217
W24x68	0.83	161	0.059	0.138	0.217
W24x76	0.93	144	0.059	0.138	0.217
W24x84	1.02	131	0.059	0.138	0.217
W24x94	1.13	119	0.059	0.138	0.217
W24x104	1.07	125	0.059	0.138	0.217
W24x117	1.20	112	0.059	0.138	0.217
W24x131	1.33	101	0.036	0.126	0.217
W24x146	1.48	91	0.036	0.126	0.217
W24x162	1.63	82	0.036	0.126	0.217
W27x84	0.92	146	0.059	0.138	0.217

W27x94	1.02	131	0.059	0.138	0.217
W27x102	1.11	121	0.059	0.138	0.217
W27x114	1.23	109	0.036	0.126	0.217
W27x146	1.35	99	0.036	0.126	0.217
W27x161	1.48	91	0.036	0.126	0.217
W27x178	1.63	82	0.036	0.126	0.217
W30x99	1.00	134	0.059	0.138	0.217
W30x108	1.09	123	0.059	0.138	0.217
W30x116	1.16	115	0.059	0.138	0.217
W30x124	1.24	108	0.036	0.126	0.217
W30x132	1.31	102	0.036	0.126	0.217
W30x173	1.46	92	0.036	0.126	0.217
W30x191	1.60	84	0.036	0.126	0.217
W30x211	1.76	76	0.036	0.126	0.217
W33x118	1.08	124	0.059	0.138	0.217
W33x130	1.18	114	0.059	0.138	0.217
W33x141	1.28	105	0.036	0.126	0.217
W33x152	1.37	98	0.036	0.126	0.217
W33x201	1.58	85	0.036	0.126	0.217
W33x221	1.72	78	0.036	0.126	0.217
W33x241	1.88	71	0.036	0.126	0.217
W36x135	1.16	115	0.059	0.138	0.217
W36x150	1.28	105	0.036	0.126	0.217
W36x160	1.36	99	0.036	0.126	0.217
W36x170	1.44	93	0.036	0.126	0.217
W36x182	1.54	87	0.036	0.126	0.217
W36x194	1.63	82	0.036	0.126	0.217
W36x210	1.76	76	0.036	0.126	0.217
W36x230	1.71	78	0.036	0.126	0.217
W36x245	1.82	74	0.036	0.126	0.217
W36x260	1.92	70	0.036	0.126	0.217
W36x280	2.06	65	0.036	0.126	0.217
W36x300	2.19	61	0.036	0.126	0.217

NR - NOT RATED

**CARBOLINE CO** — Type Nullifire S605. Investigated for Interior General Purpose.

3. **Topcoat** Type TS 615 top-coat applied over the base coat at 0.003 in. thickness.

\*Bearing the UL Classification Marking

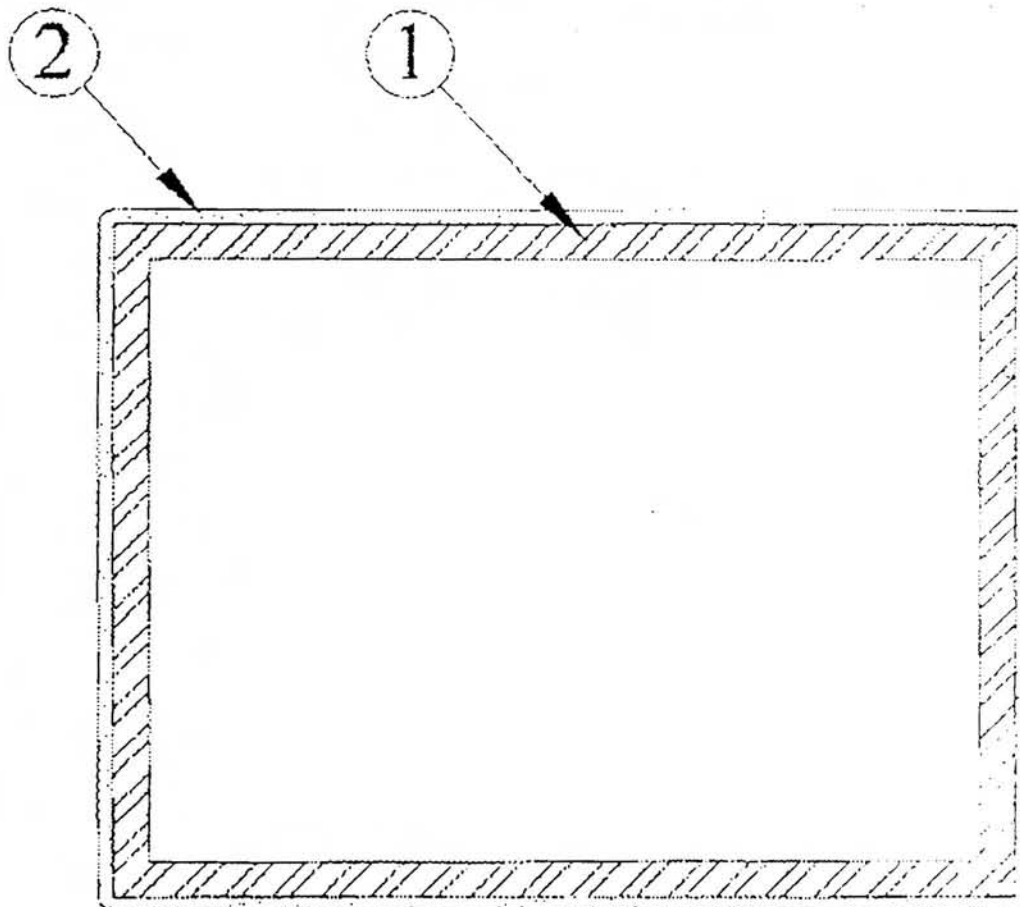
## Fire Resistance Ratings - ANSI/UL 263

### Guide Information

Design No. X630

November 30, 1999

Ratings — 1 and 1-1/2 Hr. (See Item 2)



1. **Steel Column** Steel tube columns with the minimum sizes shown in the tables below. Columns shall be free of dirt, loose scale and oil. Column shall be primed with a red oxide zinc phosphate primer.

2. **Mastic Coating** Coating spray, brush or trowel applied directly from containers to



desired thickness. See table below for appropriate final dry thickness.

SIZE	A/P	1 HR	1-1/2 HR
ST 4X4X1/2	0.44	0.127	NR
ST 5X5X1/2	0.45	0.127	NR
ST 6X6X1/2	0.46	0.127	NR
ST 7X7X1/2	0.46	0.127	NR
ST 8X8X1/2	0.47	0.127	NR
ST 8X8X5/8	0.58	0.127	NR
ST 10X10X1/2	0.48	0.127	NR
ST 10X10X5/8	0.59	0.127	NR
ST 12X12X1/2	0.48	0.127	NR
ST 14X14X1/2	0.48	0.127	NR
ST 16X16X1/2	0.48	0.127	NR
ST 5X3X1/2	0.44	0.127	NR
ST 6X4X1/2	0.45	0.127	NR
ST 7X5X1/2	0.46	0.127	NR
ST 8X4X1/2	0.46	0.127	NR
ST 8X6X1/2	0.46	0.127	NR
ST 10X4X1/2	0.46	0.127	NR
ST 10X6X1/2	0.47	0.127	NR
ST 12X4X1/2	0.47	0.127	NR
ST 12X6X3/8	0.36	0.127	NR
ST 12X6X1/2	0.47	0.127	NR
ST 12X8X1/2	0.48	0.127	NR
ST 12X8X5/8	0.59	0.127	NR
ST 14X4X1/2	0.47	0.127	NR
ST 14X6X1/2	0.48	0.127	NR
ST 14X10X1/2	0.48	0.127	NR
ST 16X4X1/2	0.48	0.127	NR
ST 16X8X1/2	0.48	0.127	NR
ST 16X12X1/2	0.48	0.127	NR
ST 16X12X5/8	0.60	0.076	0.130

CARBOLINE CO — Type Nullifire S605. Investigated for Interior General

Purpose.

3. **Topcoat** Type TS 615 top-coat applied over the base coat at 0.003 in. thickness.

\*Bearing the UL Classification Marking

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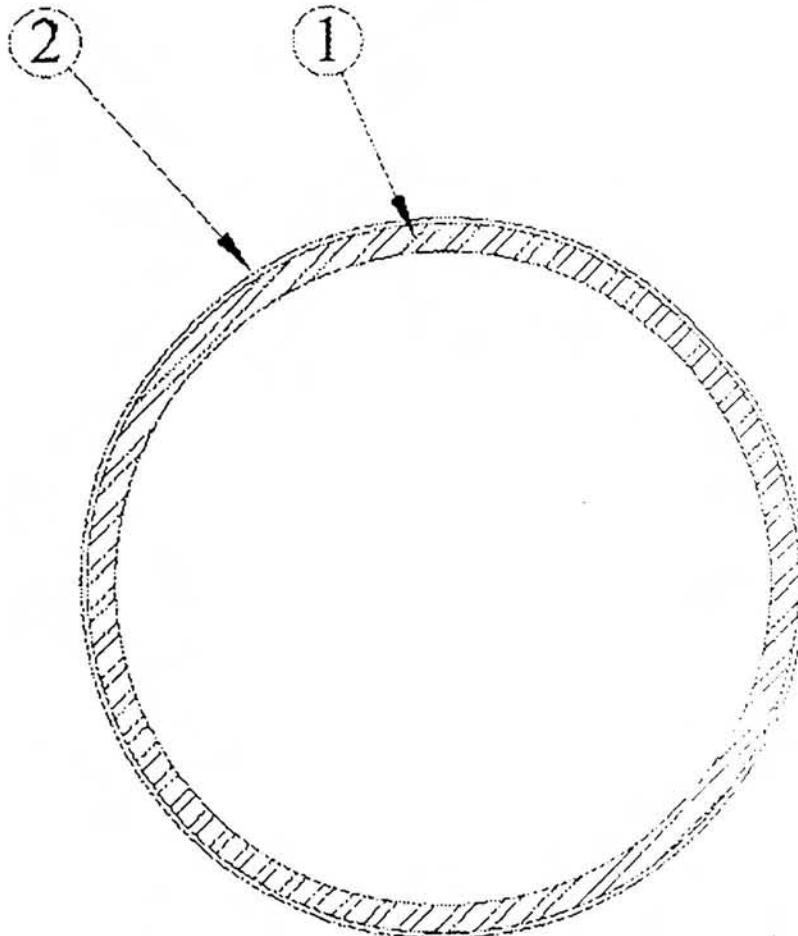
## Fire Resistance Ratings - ANSI/UL 263

### Guide Information

Design No. X631

November 30, 1999

Ratings — 1 Hr (See Item 2)



1. **Steel Column** Steel pipe columns with the minimum sizes shown in the tables below. Columns shall be free of dirt, loose scale and oil. Column shall be primed with a red oxide zinc phosphate primer.

2. **Mastic Coating** Coating spray, brush or trowel applied directly from containers to

desired thickness. See table below for appropriate final dry thickness.

SIZE	A/P	1 HR
SP 3X0.6	0.50	0.127
SP 4X0.674	0.57	0.127
SP 8X0.5	0.47	0.127
SP 12X0.5	0.48	0.127

**CARBOLINE CO** — Type Nullifire S605. Investigated for Interior General Purpose.

3. **Topcoat** Type TS 615 top-coat applied over the base coat at 0.003 in. thickness.

\*Bearing the UL Classification Marking

**Recommendation - That the above described assemblies be accepted for Class II Buildings only, as having the fire resistance ratings given above, when members framing into the columns have at least the same fire resistance rating, provided that following requirements for application and protection of the mastic coating fireproofing be adhered to:**

1. Where used for protection of floor ceiling and/or assemblies in roof/ceiling in fireproof buildings each such assembly shall bear an identifying tag installed at each beam. Subject tag shall be of metal construction mechanically attached to such beams and shall state the following: "this beam has been fireproofed with MEA approved Nullifire S605 with Type TP615 top-coat finish and such finish shall not be removed" nor any subsequent coating shall be applied other than Nullifire S605 with Type TP615 top-coat.
2. The general contractor and the owner shall provide qualified personnel to supervise the application of the sprayed-on fireproofing. They shall certify to the Department of Buildings that the finished fireproofing of the completed building is in full compliance with the acceptance requirements and drawings approved by the Department of Buildings.
3. The installation of the sprayed on fire protection shall be subject to the controlled inspection requirements of Section 27-132.
4. The use of this material shall be subject to all pertinent regulations of the Department of Air Resources and the Department of Health.
5. All installations shall comply with 118-68 GR, the New York City Building Code, the Fire Department Directives, the manufacturer's instructions and laboratory recommendation.
6. All shipments and deliveries of the materials comprising this assembly shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance JUL 27 2000  
Examined by S Derflinger