

**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 178-00-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 S607.

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 S607 mastic coating with type Carboline Sanitile 250 or Carboline 3359 top coat per requirement of Underwriters Laboratories Inc. is designed to fire-proof interior steelwork of steel beams, columns, tubes, and pipes in Design No. X635, X636 and X637.

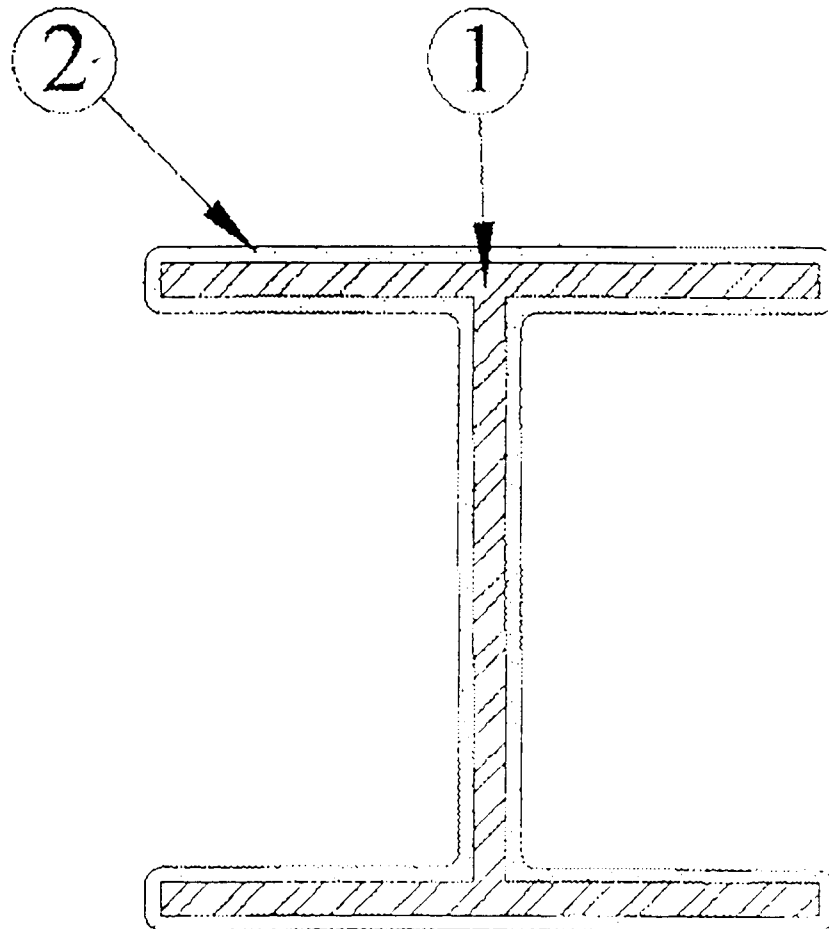
# Fire Resistance Ratings - ANSI/UL 263

## Guide Information

Design No. X635

November 30, 1999

Rating — 1 Hr. (See Item 2)



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. Columns 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
W5x19	0.65	206	0.074
W6x16	0.58	231	0.074
W6x25	0.69	194	0.074
W8x21	0.57	235	0.074
W8x24	0.59	227	0.074
W8x28	0.68	197	0.074
W8x31	0.66	203	0.074
W8x35	0.74	181	0.074
W8x40	0.84	159	0.057
W8x48	1.00	134	0.057
W8x58	1.19	113	0.057
W8x67	1.36	99	0.057
W10x26	0.61	220	0.074
W10x30	0.70	191	0.074
W10x33	0.66	203	0.074
W10x39	0.78	172	0.074
W10x45	0.89	151	0.057
W10x49	0.84	159	0.057
W10x54	0.92	146	0.057
W10x60	1.02	131	0.057
W10x68	1.14	118	0.057
W10x77	1.28	105	0.057
W10x88	1.45	92	0.057
W10x100	1.63	82	0.057
W10x112	1.81	74	0.057
W12x30	0.60	223	0.074
W12x35	0.70	191	0.074
W12x40	0.74	181	0.074
W12x45	0.82	163	0.074
W12x50	0.91	147	0.057
W12x53	0.85	158	0.057

W12x58	0.93	144	0.057
W12x65	0.92	146	0.057
W12x72	1.02	131	0.057
W12x79	1.11	121	0.057
W12x87	1.22	110	0.057
W12x96	1.34	100	0.057
W12x106	1.46	92	0.057
W12x120	1.64	82	0.057
W12x136	1.84	73	0.057
W12x152	2.04	66	0.057
W12x170	2.26	59	0.057
W12x190	2.49	54	0.057
W12x210	2.72	49	0.057
W12x230	2.94	46	0.057
W12x252	3.19	42	0.057
W12x279	3.48	38	0.057
W12x305	3.75	36	0.057
W12x336	4.07	33	0.057
W14x34	0.63	213	0.074
W14x38	0.70	191	0.074
W14x43	0.75	179	0.074
W14x48	0.83	161	0.057
W14x53	0.91	147	0.057
W14x61	0.92	146	0.057
W14x68	1.03	130	0.057
W14x74	1.11	121	0.057
W14x82	1.22	110	0.057
W14x90	1.07	125	0.057
W14x99	1.17	115	0.057
W14x109	1.28	105	0.057
W14x120	1.40	96	0.057
W14x132	1.54	87	0.057
W14x145	1.63	82	0.057

W14x159	1.77	76	0.057
W14x176	1.95	69	0.057
W14x193	2.12	63	0.057
W14x211	2.30	58	0.057
W14x233	2.52	53	0.057
W14x257	2.75	49	0.057
W14x283	3.00	45	0.057
W14x311	3.26	41	0.057
W14x342	3.55	38	0.057
W14x370	3.80	35	0.057
W14x398	4.04	33	0.057
W14x426	4.29	31	0.057
W14x455	4.54	30	0.057
W14x500	4.91	27	0.057
W14x550	5.32	25	0.057
W14x605	5.75	23	0.057
W14x665	6.21	22	0.057
W14x730	6.68	20	0.057
W16x31	0.59	227	0.074
W16x36	0.62	216	0.074
W16x40	0.68	197	0.074
W16x45	0.76	176	0.074
W16x50	0.84	159	0.057
W16x57	0.95	141	0.057
W16x67	0.93	144	0.057
W16x77	1.06	126	0.057
W16x89	1.22	110	0.057
W16x100	1.36	99	0.057
W18x35	0.60	223	0.074
W18x40	0.68	197	0.074
W18x46	0.78	172	0.074
W18x50	0.77	174	0.074
W18x55	0.85	158	0.057

W18x60	0.92	146	0.057
W18x65	0.99	135	0.057
W18x71	1.08	124	0.057
W18x76	0.96	140	0.057
W18x86	1.08	124	0.057
W18x97	1.21	111	0.057
W18x106	1.32	101	0.057
W18x119	1.47	91	0.057
W21x44	0.67	200	0.074
W21x50	0.76	176	0.074
W21x57	0.85	158	0.057
W21x62	0.85	158	0.057
W21x68	0.92	146	0.057
W21x73	0.99	135	0.057
W21x83	1.12	120	0.057
W21x93	1.24	108	0.057
W21x101	1.12	120	0.057
W21x111	1.23	109	0.057
W21x122	1.34	100	0.057
W21x132	1.45	92	0.057
W21x147	1.60	84	0.057
W24x55	0.75	179	0.074
W24x62	0.84	159	0.057
W24x68	0.83	161	0.057
W24x76	0.93	144	0.057
W24x84	1.02	131	0.057
W24x94	1.13	119	0.057
W24x104	1.07	125	0.057
W24x117	1.20	112	0.057
W24x131	1.33	101	0.057
W24x146	1.48	91	0.057
W24x162	1.63	82	0.057
W27x84	0.92	146	0.057

W27x94	1.02	131	0.057
W27x102	1.11	121	0.057
W27x114	1.23	109	0.057
W27x146	1.35	99	0.057
W27x161	1.48	91	0.057
W27x178	1.63	82	0.057
W30x99	1.00	134	0.057
W30x108	1.09	123	0.057
W30x116	1.16	115	0.057
W30x124	1.24	108	0.057
W30x132	1.31	102	0.057
W30x173	1.46	92	0.057
W30x191	1.60	84	0.057
W30x211	1.76	76	0.057
W33x118	1.08	124	0.057
W33x130	1.18	114	0.057
W33x141	1.28	105	0.057
W33x152	1.37	98	0.057
W33x201	1.58	85	0.057
W33x221	1.72	78	0.057
W33x241	1.88	71	0.057
W36x135	1.16	115	0.057
W36x150	1.28	105	0.057
W36x160	1.36	99	0.057
W36x170	1.44	93	0.057
W36x182	1.54	87	0.057
W36x194	1.63	82	0.057
W36x210	1.76	76	0.057
W36x230	1.71	78	0.057
W36x245	1.82	74	0.057
W36x260	1.92	70	0.057
W36x280	2.06	65	0.057
W36x300	2.19	61	0.057

3. **Top-Coat** Required for Interior General Purpose. See Classification information in the Mastic Coating (CDWZ) category for a list of top-coats. Optional for Interior Conditioned Space Purpose. Top-coat to be applied at a min. 0.003 in. thickness.

\*Bearing the UL Classification Marking

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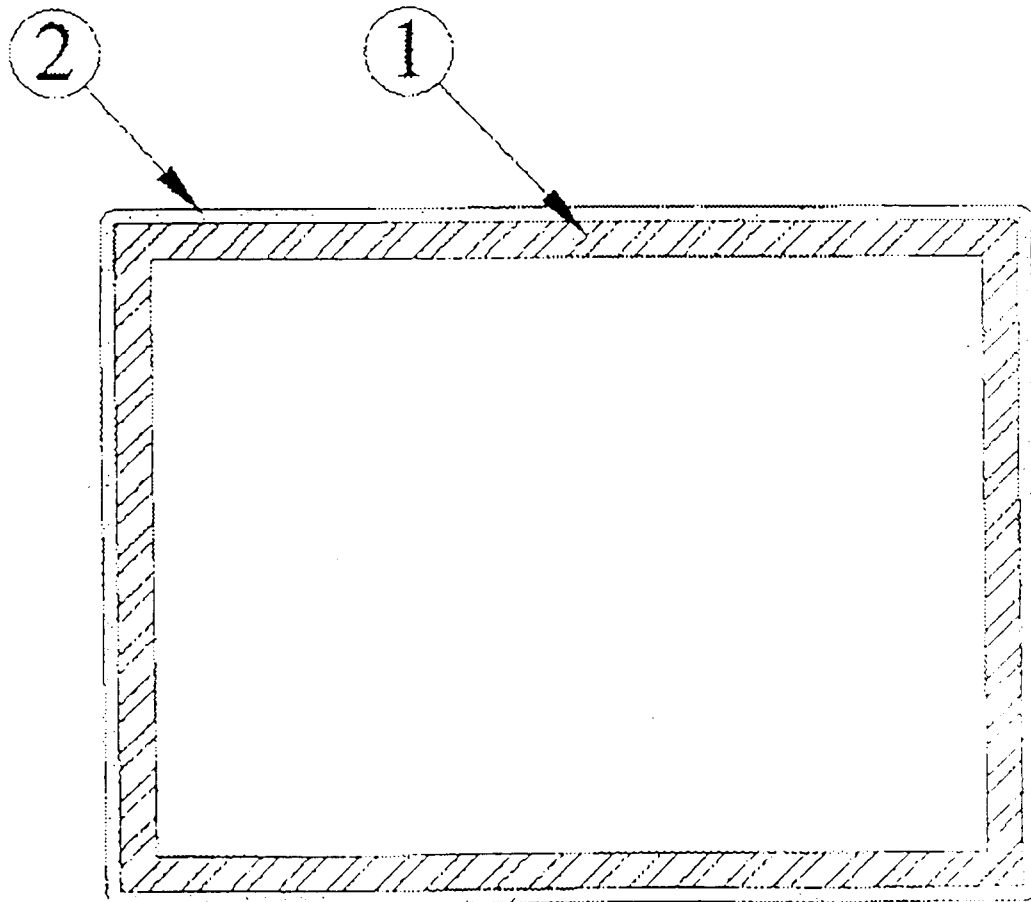
## Fire Resistance Ratings - ANSI/UL 263

### Guide Information

Design No. X636

November 30, 1999

Rating — 1 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. Columns shall be primed with a red oxide 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
ST 3X3X5/16	0.28	0.161
ST 3.5X3.5X5/16	0.28	0.161
ST 4X4X5/16	0.29	0.161
ST 4X4X3/8	0.34	0.161
ST 4X4X1/2	0.44	0.089
ST 5X5X5/16	0.29	0.161
ST 5X5X3/8	0.35	0.161
ST 5X5X1/2	0.45	0.089
ST 6X6X5/16	0.30	0.161
ST 6X6X3/8	0.35	0.161
ST 6X6X1/2	0.46	0.089
ST 7X7X5/16	0.30	0.161
ST 7X7X1/2	0.46	0.089
ST 7X7X3/8	0.35	0.161
ST 8X8X5/16	0.30	0.161
ST 8X8X3/8	0.36	0.161
ST 8X8X1/2	0.47	0.089
ST 8X8X5/8	0.58	0.089
ST 10X10X5/16	0.30	0.161
ST 10X10X3/8	0.36	0.161
ST 10X10X1/2	0.48	0.089
ST 10X10X5/8	0.59	0.089
ST 12X12X5/16	0.30	0.161
ST 12X12X3/8	0.36	0.161
ST 12X12X1/2	0.48	0.089
ST 14X14X5/16	0.31	0.161
ST 14X14X3/8	0.36	0.161
ST 14X14X1/2	0.48	0.089
ST 16X16X5/16	0.31	0.161
ST 16X16X3/8	0.37	0.161
ST 16X16X1/2	0.48	0.089

ST 4X3X5/16	0.28	0.161
ST 5X3X15/16	0.29	0.161
ST 5X3X3/8	0.34	0.161
ST 5X3X1/2	0.44	0.089
ST 5X4X5/16	0.29	0.161
ST 5X4X3/8	0.34	0.161
ST 6X3X5/16	0.29	0.161
ST 6X3X3/8	0.34	0.161
ST 6X4X5/16	0.29	0.161
ST 6X4X3/8	0.35	0.161
ST 6X4X1/2	0.45	0.089
ST 7X3X5/16	0.29	0.161
ST 7X3X3/8	0.35	0.161
ST 7X4X5/16	0.29	0.161
ST 7X4X3/8	0.35	0.161
ST 7X5X5/16	0.30	0.161
ST 7X5X3/8	0.35	0.161
ST 7X5X1/2	0.46	0.089
ST 8X3X5/16	0.29	0.161
ST 8X3X3/8	0.35	0.161
ST 8X4X5/16	0.30	0.161
ST 8X4X3/8	0.35	0.161
ST 8X4X1/2	0.46	0.089
ST 8X6X5/16	0.30	0.161
ST 8X6X3/8	0.35	0.161
ST 8X6X1/2	0.46	0.089
ST 10X4X5/16	0.30	0.161
ST 10X4X3/8	0.35	0.161
ST 10X4X1/2	0.46	0.089
ST 10X6X5/16	0.30	0.161
ST 10X6X3/8	0.36	0.161
ST 10X6X1/2	0.47	0.089
ST 12X4X5/16	0.30	0.161

ST 12X4X3/8	0.36	0.161
ST 12X4X1/2	0.47	0.089
ST 12X6X1/4	0.24	0.161
ST 12X6X5/16	0.30	0.161
ST 12X6X3/8	0.36	0.161
ST 12X6X1/2	0.58	0.089
ST 12X8X5/16	0.30	0.161
ST 12X8X3/8	0.36	0.161
ST 12X8X1/2	0.48	0.161
ST 12X8X5/8	0.59	0.161
ST 14X4X5/16	0.30	0.161
ST 14X4X3/8	0.36	0.161
ST 14X4X1/2	0.47	0.161
ST 14X6X5/16	0.30	0.161
ST 14X6X3/8	0.36	0.161
ST 14X6X1/2	0.48	0.089
ST 14X10X5/16	0.30	0.161
ST 14X10X3/8	0.36	0.161
ST 14X10X1/2	0.48	0.089
ST 16X4X5/16	0.30	0.161
ST 16X4X3/8	0.36	0.161
ST 16X4X1/2	0.48	0.089
ST 16X8X5/16	0.30	0.161
ST 16X8X3/8	0.36	0.161
ST 16X8X1/2	0.48	0.089
ST 16X12X5/16	0.31	0.161
ST 16X12X3/8	0.36	0.161
ST 16X12X1/2	0.48	0.089
ST 16X12X5/8	0.60	0.069

**CARBOLINE CO** — Nullifire S607. Investigated for Interior Conditioned Space Purpose and Interior General Purpose.

3. **Top-Coat** Required for Interior General Purpose. See Classification information in the Mastic Coating (CDWZ) category for a list of top-coats. Optional for Interior

Conditioned Space Purpose. Top-coat to be applied at a min. 0.003 in. thickness.

\*Bearing the UL Classification Marking

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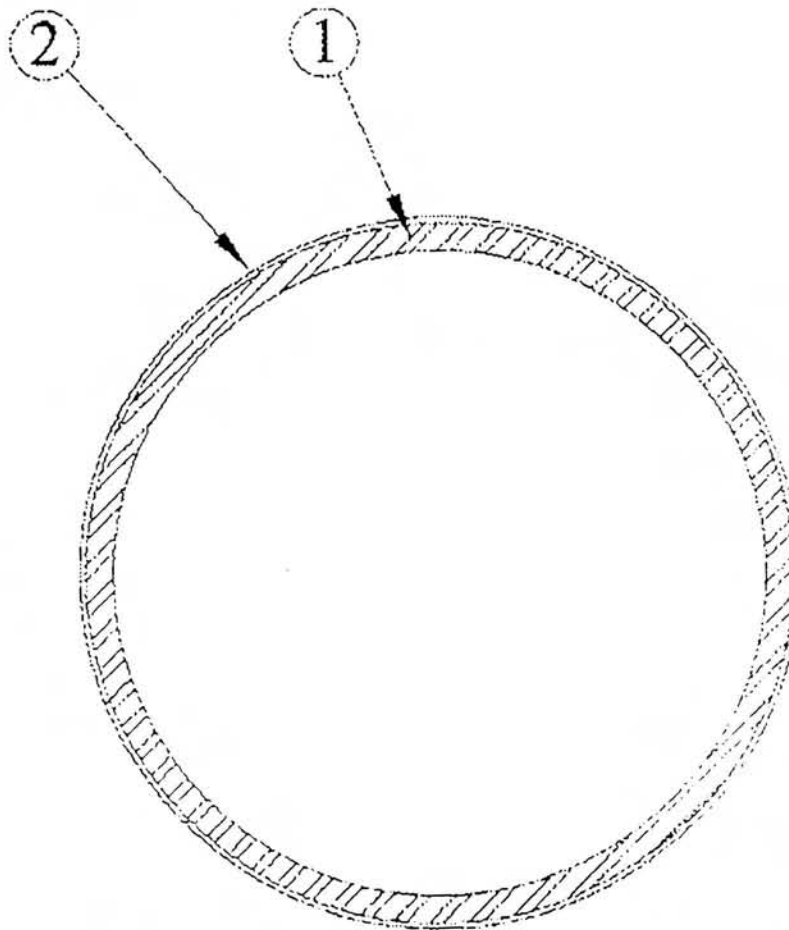
## Fire Resistance Ratings - ANSI/UL 263

### Guide Information

Design No. X637

November 30, 1999

Rating — 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. Columns 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	0.089
SP 3.5X0.318	0.29	0.161
SP 4X0.337	0.31	0.161
SP 4X0.674	0.57	0.089
SP 5X0.375	0.35	0.161
SP 6X0.432	0.40	0.161
SP 8X0.322	0.31	0.161
SP 8X0.5	0.47	0.089
SP 10X0.365	0.35	0.161
SP 10X0.365	0.35	0.161
SP 12X0.375	0.36	0.161
SP 12X0.5	0.48	0.089

**CARBOLINE CO** — Type Nullifire S607. Investigated for Interior Conditioned Space Purpose and Interior General Purpose.

3. **Top-Coat** Required for Interior General Purpose. See Classification information in the Mastic Coating (CDWZ) category for a list of top-coats. Optional for Interior Conditioned Space Purpose. Top-coat to be applied at a min. 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 S607 coating with type Carboline Sanitile 250 or Carboline 3359 top coat finish and such finish shall not be removed" nor any subsequent coating shall be applied other than Nullifire S607 coating with type Carboline Sanitile 250 or Carboline 3359 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 Derkhdam