SMP 800-C
TOXIC GAS TESTING
FOR
QUANTUM TECHNICAL
ON
PRECIDIUM MTI RAIL FLOOR
VTEC #100-4174-1
TESTED: OCTOBER 11, 2012

VTEC Laboratories Inc.

October 18, 2012

Client: Quantum Technical
15 Riel Drive
St. Albert, AB T8N 3Z2
CANADA

Attention: Mr. Shawn Chizen

Subject:

Measure amount of toxic gas generation per SMP 800-C specification.

Test Description:

The gas analysis was made after 4 minutes of exposure to 2.5 w/cm² of radiant heat in the flaming and non-flaming modes. Colorimetric Gas Detector Tubes were used in the toxic gas analysis.

Disclaimer:

This test result alone does not assess the fire hazard of the material, or a product made from this material, under actual fire conditions. Consequently, the results of this test alone are not to be quoted in support of claims with respect to the fire hazard of the material or product under actual fire conditions. The results when used alone are only to be used for research and development, quality control and material specifications.

Material Tested:

1) Product Description: Precidium MTI Rail Floor
2) Supplier: Quantum Technical
3) Color: Grey
4) Specimen Composition: Coated on 0.24" Steel
5) Average Thickness: 0.34 in.

Results:

Sample Weight (g)	294.5	297.8	297.4	296.4	294.8	295.6			
	Non-flame Mode CORRECTED PPM			Flaming Mode CORRECTED PPM			AVERAGE PPM	STD. DEVIATION PPM	Critical Concentration PPM
GAS	#1	#2	#3	#4	#5	#6			
CO	10	10	10	400	500	400	221.7	234.73	3,500
HCN	0	0	0	25	20	20	10.8	12.01	100
SO_2	0	0	0	0	0	0	0.0	0.00	100
HCl	0	0	0	5	6	6	2.8	3.13	500
HF	0	0	0	0	0	0	0.0	0.00	100
$(NO+NO_2)$ NO_X	1	0	1	79	76	64	36.8	39.94	100
CO_2	1,800	2,000	1,800	10,000	8,500	9,500	5,600	4,118.7	90,000
HBr	0	0	0	1	2	1	0.7	0.82	100

AMBIENT TEMPERATURE:	74.9 deg. F
RELATIVE HUMIDITY:	38%
BAROMETRIC PRESSURE:	29.9 Inches of Mercury

Conclusion:

The material tested met the critical concentration requirements of SMP 800-C.

Neil Schultz
Executive Director

Amirudin Rahim
Technical Director