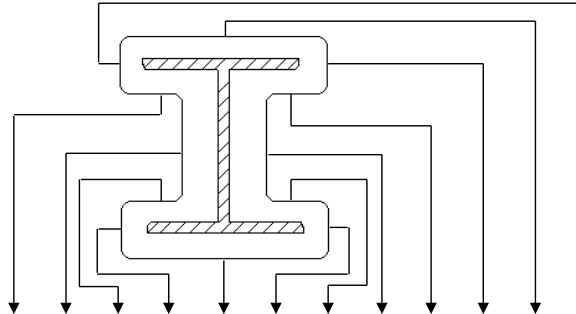




SFRM REPORT ON BEAM OR COLUMN
ASTM E605/E736

Project Name: The Park Danforth
Project Number: 14-0065.2
Client: The Park Danforth
SFRM Supplier: Isolatek International
SFRM Material: Cafco Blaze-Shield II
SFRM Installer: Northern Plasterwork
Installation Date: 3/25/16 - 4/6/16



Floor No.	Column/Beam No.	Type	Test Date	Spec.													Averages			
					1	2	3	4	5	6	7	8	9	10*	11*	12*	Faces	Flange Tips	Total	
2nd Floor / 3rd Framing	Retest Column G/9	W10x49	4/26/16	1.250	1.563	1.063	1.188	2.000	1.000	2.313	2.063	1.250	1.500	1.500	1.438	2.063	1.273	1.461	1.336	
					1.313	1.125	0.875	2.063	1.125	2.000	1.625	1.750	1.250	1.313	1.250	1.375				
2nd Floor / 3rd Framing	Retest Column G/8	W10x68	4/26/16	1.125	1.688	2.125	1.500	1.375	1.438	1.000	2.000	2.313	1.375	1.000	1.000	2.000	1.305	1.203	1.271	
					2.313	1.563	1.125	1.500	1.500	1.063	1.875	1.500	1.250	1.063	1.000	1.500				
2nd Floor / 3rd Framing	Retest Column F/8	W10x68	6/29/16	1.125	1.188	1.875	2.000	1.625	1.000	1.438	1.000	1.750	1.375	1.438	1.000	1.000	1.215	1.242	1.224	
					1.188	1.750	1.688	1.750	1.000	1.000	1.000	1.750	1.438	1.375	1.063	1.063				
3rd Floor / 4th Framing	Retest Column G/8	W10x39	7/19/16	1.438	1.750	1.313	1.563	1.250	1.438	not accessible at time of testing						1.375	1.563	1.556	1.391	1.509
					1.625	1.813	1.688	1.313	1.875	1.500	1.438									
Third Floor / 4th Framing	Retest Column G/9	W10x33	7/19/16	1.563	1.875	1.813	1.375	1.250	1.625	1.563	1.938	1.688	1.813	1.375	2.000	1.375	1.699	1.500	1.633	
					1.563	2.000	1.500	1.750	1.875	1.625	1.500	1.875	1.875	1.563	1.625	1.500				
Third Floor / 4th Framing	Retest Column G/10	W10x33	7/19/16	1.563	2.000	1.813	1.375	1.500	1.563	not accessible at time of testing						1.313	1.813	1.606	1.625	1.612
					2.375	1.625	1.500	1.500	1.875	1.438	1.688									

* Not required for beams

ASTM E-605 8.1.2.1 For the purpose of averaging measurements, any measurement 6 mm (1/4 in.) or more, over the required design thickness, shall be recorded as the design thickness plus 6 mm. (Averages reflect ASTM guidelines). No individual measured thickness shall be more than 6 mm less, or more than 25 % less, than the required design thickness.

ASTM E-605 8.1.2.1 Note 1- Specific fire resistance rating criteria for beams, trusses, and columns may allow for a reduced thickness on flange tips. These thicknesses are to be averaged apart from other sections of the structural member.

DENSITY

Test Date	Framing Level	Member Type	Member Location	Thickness (in)	Area (in ²)	Density (pcf)	Specification (pcf)

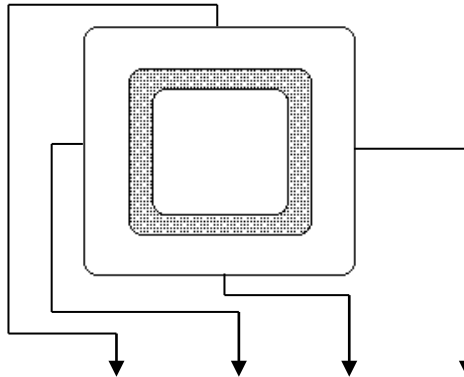
ADHESION/COHESION

Test Date	Framing Level	Member Type	Member Location	Failure Type	Force (lbs)	Bond (psf)	Specification (psf)

Comments:

Sampled by: KBG
Reviewed by: RED

Project Name: The Park Danforth
Project Number: 14-0065.2
Client: The Park Danforth
SFRM Supplier: Isolatek International
SFRM Installer: Northern Plasterwork
Installation Date: Various



Location	Member Type	Required Thickness	1	2	3	4	Average Thickness
Retest 2 nd Floor, 3 rd Framing, BF-5	HSS 6x6x1/4	1.938	2.688	1.750	3.125	3.063	2.125
			2.813	2.125	2.938	3.000	
Retest 2 nd Floor, 3 rd Framing, BF-6	HSS 5x5x5/16	1.563	2.750	2.625	2.500	2.313	1.813
			2.813	2.875	2.063	2.813	
Retest 2 nd Floor, 3 rd Framing, BF-3	HSS 6x6x1/4	1.938	2.438	2.688	2.125	2.225	2.118
			2.063	2.500	1.813	2.313	
Retest 2 nd Floor, 3 rd Framing, BF-4	HSS 6x6x1/4	1.938	2.063	2.000	2.125	2.688	2.125
			2.188	2.313	2.063	2.500	
Retest 2 nd Floor, 3 rd Framing, BF-10	HSS 5x5x1/4	1.938	2.125	2.313	2.375	N/A	2.136
			2.750	2.125	2.000	N/A	

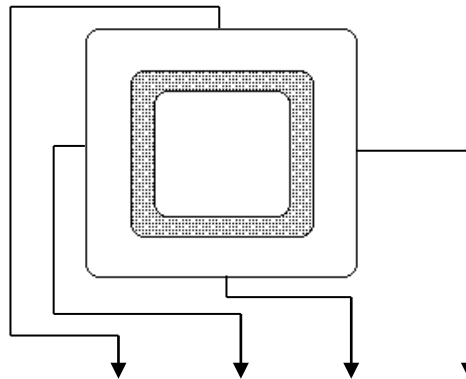
ASTM E-605 8.1.2.1

For the purpose of averaging measurements, any measurement 6 mm (1/4 in.) or more, over the required design thickness, shall be recorded as the design thickness plus 6 mm. No individual measured thickness shall be more than 6 mm less, or more than 25 % less, than the required design thickness.

Comments:

Sampled by: K. Gimpel
Reviewed by: RED

Project Name: The Park Danforth
Project Number: 14-0065.2
Client: The Park Danforth
SFRM Supplier: Isolatek International
SFRM Installer: Northern Plasterwork
Installation Date: Various



Location	Member Type	Required Thickness	1	2	3	4	Average Thickness
Retest 3 rd Floor, 4 th Framing, BF-6	HSS 5x5x1/4	1.938	2.500	2.000	2.563	2.938	2.039
			2.688	1.750	2.688	2.625	
Retest 3 rd Floor, 4 th Framing, BF-12	HSS 5x5x1/4	1.938	2.625	3.125	2.250	Not access ible	2.157
			2.625	2.000	2.563		
Retest 3 rd Floor, 4 th Framing, BF-13	HSS 5x5x1/4	1.938	2.000	3.000	2.750	Not access ible	2.115
			2.063	3.125	2.063		
Retest 3 rd Floor, 4 th Framing, BF-7	HSS 5x5x1/4	1.938	2.063	2.125	2.063	2.250	2.079
			1.688	3.000	2.250	2.125	

ASTM E-605 8.1.2.1

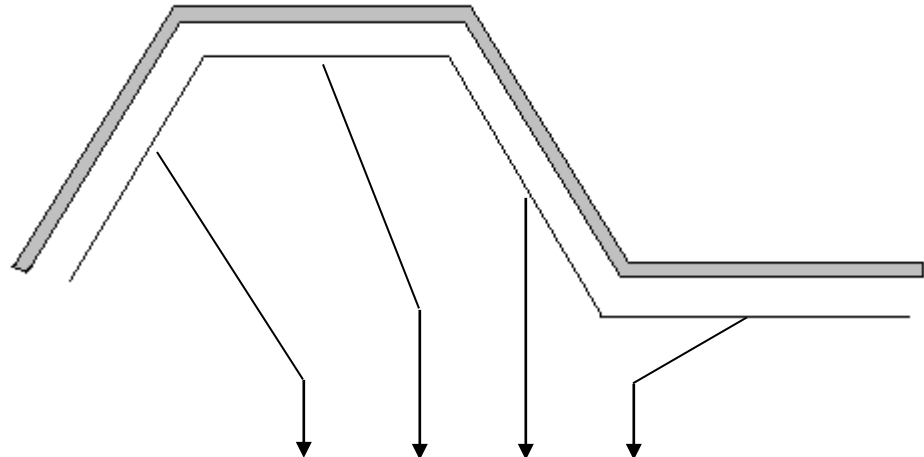
For the purpose of averaging measurements, any measurement 6 mm (1/4 in.) or more, over the required design thickness, shall be recorded as the design thickness plus 6 mm. No individual measured thickness shall be more than 6 mm less, or more than 25 % less, than the required design thickness.

Comments:

Sampled by: K. Gimpel
Reviewed by: RED

REPORT OF FIRE PROOFING THICKNESS OF MATERIAL ON STEEL DECKING – ASTM E605

Project Name: The Park Danforth
 Project Number: 14-0065.2
 Client: The Park Danforth
 SFRM Supplier: Isolatek International
 SFRM Material: Cafco Blaze Shield II
 SFRM Installer: Northern Plasterworks
 Installation Date: Week of 7/18/16



Location	Required Thickness	1	2	3	4	Average Thickness
5 th Floor, Roof Framing, F.4 to F.4(+8), 8.5 to 9	0.813	1.125	0.938	1.000	1.000	1.000
5 th Floor, Roof Framing, G to G.8, 8.5 to 9	0.813	2.000	1.438	1.750	1.688	1.063
5 th Floor, Roof Framing, G to G (-10), 10 to 10.5	0.813	1.000	0.813	1.125	1.188	0.985
5 th Floor, Roof Framing, F to F.4, 10 to 10.5	0.813	0.875	1.000	1.125	1.375	1.000

Per ASTM E-605 8.1.2.1 for the purpose of averaging measurements, any measurement 6 mm (1/4 in.) or more, over the required design thickness, shall be recorded as the design thickness plus 6 mm. (Averages reflect ASTM guidelines). No individual measured thickness shall be more than 6 mm less, or more than 25 % less, than the required design

Comments: SFRM application still in progress at roof deck as of 7-19-16. Above testing represents areas thus far completed.

Sampled by: K. Gimpel
 Reviewed by: RED