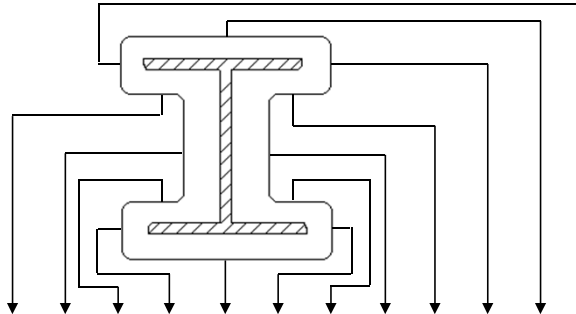




**SFRM REPORT ON BEAM OR COLUMN**  
**ASTM E605/E736**

**Project Name:** The Park Danforth  
**Project Number:** 14-0065.2  
**Client:** The Park Danforth  
**SFRM Supplier:** Isolatak International  
**SFRM Material:** Cafco Blaze-Shield II  
**SFRM Installer:** Northern Plasterwork  
**Installation Date:** Week of 5/23/16



Floor No.	Column/Beam No.	Type	Test Date	Spec.	Averages												Faces	Flange Tips	Total	
					1	2	3	4	5	6	7	8	9	10*	11*	12*				
Fifth Floor / Roof Framing	F.4-line from 10 to 11-line	W16x36	5/31/16	0.625	1.000	0.750	1.250	0.938	1.000	0.750	1.250	0.875	1.063					<b>0.866</b>	<b>0.781</b>	<b>0.847</b>
Fifth Floor / Roof Framing	F to G-line on 10-line	W18x50	5/31/16	0.563	0.813	0.938	0.563	0.813	0.813	0.563	1.125	0.938	0.688					<b>0.746</b>	<b>0.641</b>	<b>0.722</b>
Fifth Floor / Roof Framing	G-line (+5') from 8 to 9-line	W16x26	5/31/16	0.750	0.875	0.500	1.438	0.625	0.750	0.875	1.000	0.750	1.500					<b>0.817</b>	<b>0.641</b>	<b>0.778</b>
Fifth Floor / Roof Framing	G.8-line from 7.5 to 8-line	W18x35	5/31/16	0.688	1.688	1.000	1.438	1.125	1.125	0.938	1.438	1.375	2.000					<b>0.938</b>	<b>0.938</b>	<b>0.938</b>
Fifth Floor / Roof Framing	G to F.4-line on 7.5-line	W18x35	5/31/16	0.688	1.000	0.750	1.125	0.750	1.000	0.563	1.500	0.625	1.125					<b>0.871</b>	<b>0.656</b>	<b>0.823</b>
Fifth Floor / Roof Framing	G-line from 7 to 8-line	W16x31	5/31/16	0.688	1.375	1.188	1.125	0.875	0.688	0.813	1.063	0.625	1.000					<b>0.853</b>	<b>0.781</b>	<b>0.837</b>

\* 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 <sup>2</sup> )	Density (pcf)	Specification (pcf)
5/31/16	5th	Column	G/10	1.089	48.000	19	15
5/31/16	5th	Beam	G-F on 10	0.703	48.000	22	15

**ADHESION/COHESION**

Test Date	Framing Level	Member Type	Member Location	Failure Type	Force (lbs)	Bond (psf)	Specification (psf)
7/5/16	5th	Column	G/10	Cohesion	18	319	150
7/5/16	5th	Beam	G-F on 10	Adhesion	9	156	150

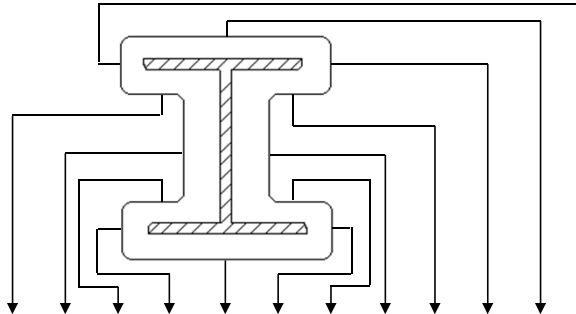
Comments: Decking not sprayed yet.

Sampled by: KBG  
Reviewed by: RED



**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:** Isolatak International  
**SFRM Material:** Cafco Blaze-Shield II  
**SFRM Installer:** Northern Plasterwork  
**Installation Date:** Week of 5/23/16



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
Fifth Floor / Roof Framing	Column G/9	W10x33	5/31/16	0.688	1.063	1.500	1.000	1.000	1.188	1.250	1.375	1.563	1.000	0.875	0.875	1.250	<b>0.934</b>	<b>0.930</b>	<b>0.933</b>
					1.500	1.750	1.063	1.125	1.313	1.188	1.375	1.625	1.250	0.938	1.063	1.375			
Fifth Floor / Roof Framing	Column G/8	W10x39	5/31/16	0.688	1.375	1.375	1.250	0.875	1.000	1.000	1.500	2.250	1.313	1.313	1.188	1.000	<b>0.938</b>	<b>0.930</b>	<b>0.935</b>
					1.813	1.500	1.500	1.000	1.000	0.938	1.625	2.250	1.750	1.250	1.125	0.938			
Fifth Floor / Roof Framing																			
Fifth Floor / Roof Framing																			
Fifth Floor / Roof Framing																			
Fifth Floor / Roof Framing																			

\* 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 <sup>2</sup> )	Density (pcf)	Specification (pcf)

**ADHESION/COHESION**

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

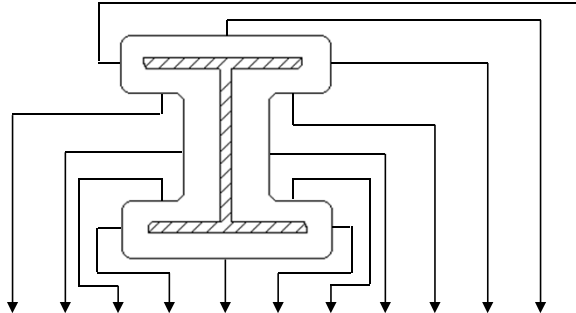
Comments: Decking not sprayed yet.

Sampled by: KBG  
Reviewed by: RED



**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:** Isolatak International  
**SFRM Material:** Cafco Blaze-Shield II  
**SFRM Installer:** Northern Plasterwork  
**Installation Date:** Various



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	
Fifth Floor / Roof Framing	B-line from 4 to 5-line	W16x26	6/29/16	0.750	1.125	0.938	1.125	1.000	0.625	0.563	1.063	1.000	1.375					<b>0.929</b>	<b>0.656</b>	<b>0.868</b>
					1.188	0.688	1.250	0.563	0.750	0.500	1.750	1.063	1.250							
Fifth Floor / Roof Framing	Column B/4	W10x33	6/29/16	0.688	2.000	1.250	1.750	1.188	2.125	1.250	1.875	2.250	0.813	1.875	1.813	1.188		<b>0.930</b>	<b>0.938</b>	<b>0.933</b>
					1.750	1.438	1.625	1.000	1.750	1.188	2.000	2.125	1.000	1.750	1.750	1.313				
Fifth Floor / Roof Framing	B to C-line on 4-line	W18x86	6/29/16	0.625	0.500	0.688	1.125	1.063	0.688	1.125	1.000	0.875	1.000					<b>0.772</b>	<b>0.844</b>	<b>0.788</b>
					0.500	0.813	1.000	1.313	0.688	0.750	1.125	0.813	1.000							
Fifth Floor / Roof Framing	C-line from 3 to 4-line	W16x26	6/29/16	0.750	1.250	0.625	1.188	0.750	0.813	0.625	0.813	1.250	1.125					<b>0.911</b>	<b>0.688</b>	<b>0.861</b>
					1.563	0.813	1.250	0.688	0.750	0.688	0.938	1.125	1.000							
Fifth Floor / Roof Framing	C-line from 1.7 to 2.5-line	W18x46	6/29/16	0.563	0.813	0.625	1.000	1.000	1.125	0.625	1.750	1.000	1.875					<b>0.773</b>	<b>0.735</b>	<b>0.764</b>
					0.750	0.500	1.063	1.000	1.000	0.688	1.625	1.375	1.750							
Fifth Floor / Roof Framing	B-line (-6') from 3 to 4-line	W16x26	6/29/16	0.750	1.500	0.500	1.125	0.813	1.000	0.688	1.625	1.000	1.750					<b>0.920</b>	<b>0.750</b>	<b>0.882</b>
					2.000	0.688	0.688	0.750	1.000	0.750	2.000	1.000	1.625							

\* 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 <sup>2</sup> )	Density (pcf)	Specification (pcf)
6/29/16	5th	Brace	BF-3	1.391	48.000	19	15
6/29/16	5th	Beam	B-C on 3	0.651	48.000	18	15

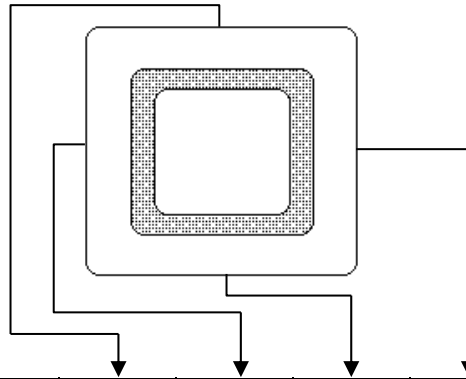
**ADHESION/COHESION**

Test Date	Framing Level	Member Type	Member Location	Failure Type	Force (lbs)	Bond (psf)	Specification (psf)
7/5/16	5th	Brace	BF-3	Cohesion	22	382	150
7/5/16	5th	Beam	B-C on 3	Adhesion	11	191	150

Comments: Decking not sprayed yet.

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:** Week of 5/23/16



Location	Member Type	Required Thickness	1	2	3	4	Average Thickness
5 <sup>th</sup> Floor / Roof Framing, BF-5	HSS 5x5x1/4	0.750	1.125	1.063	0.938	1.063	0.985
			0.938	1.188	1.250	1.438	
5 <sup>th</sup> Floor / Roof Framing, BF-6	HSS 5x5x1/4	0.750	1.125	1.000	1.000	1.063	0.953
			1.188	0.688	0.938	1.188	

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: West half of 5<sup>th</sup> still in progress.

Sampled by: K. Gimpel  
Reviewed by: RED