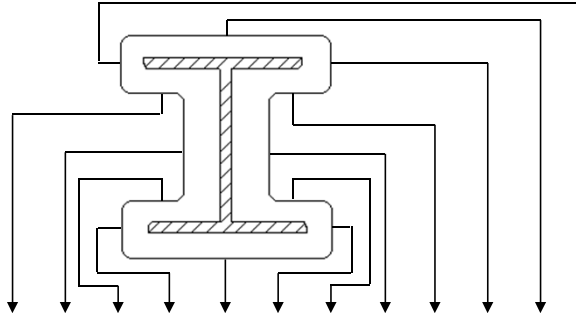




**SFRM REPORT ON BEAM OR COLUMN
ASTM E605/E736**

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 5/2/16



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*					
Third Floor / 4th Framing	B.3-line (+10) from 1.5 to 1.8-line	W10x17	5/6/16	0.938	1.188	1.313	2.250	1.125	1.000	1.250	2.375	1.125	1.000						1.098	1.110	1.101
					1.125	0.813	2.688	0.938	0.938	1.313	2.500	1.063	1.625								
Third Floor / 4th Framing	B to C-line on 1.8-line	W18x60	5/6/16	0.688	0.750	1.000	0.875	0.563	1.063	0.563	1.375	1.313	1.000						0.884	0.594	0.820
					0.750	0.625	1.250	0.625	1.000	0.625	1.500	1.125	1.063								
Third Floor / 4th Framing	B.3-line from 2 to 3-line	W16x26	5/6/16	0.938	2.000	1.000	1.750	1.313	1.000	1.250	1.625	0.938	2.000						1.081	1.110	1.087
					1.000	0.750	1.375	0.875	1.125	1.250	1.688	1.000	1.250								
Third Floor / 4th Framing	B.3-line (+10) from 3 to 4-line	W16x26	5/6/16	0.938	1.125	1.500	1.625	1.000	1.063	0.750	1.750	0.750	0.813						1.045	0.875	1.007
					0.938	1.125	1.625	0.938	0.938	0.813	1.625	0.750	1.188								
Third Floor / 4th Framing	B-line from 4 to 5-line	W16x26	5/6/16	0.938	1.375	0.813	1.688	1.313	1.313	1.000	1.625	1.250	1.125						1.134	1.141	1.136
					1.063	1.000	1.500	1.188	1.188	1.250	1.875	1.625	1.250								
Third Floor / 4th Framing	Beam from column B/5 to C/4.5	W18x106	5/6/16	0.500	1.000	0.625	1.063	1.063	1.750	1.000	0.813	1.000	1.188						0.728	0.750	0.733
					1.063	0.563	1.250	0.875	2.000	0.938	0.875	1.000	1.063								

* 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)
5/6/16	3rd Floor	W10x17	B.3-C, 1.5	0.786	48.000	21	15
5/6/16	3rd Floor	5x5x1/4	BF-2	1.563	48.000	19	15

ADHESION/COHESION

Test Date	Framing Level	Member Type	Member Location	Failure Type	Force (lbs)	Bond (psf)	Specification (psf)
5/17/16	3rd Floor	W10x17	B.3-C, 1.5	cohesion	9	156	150
5/24/16	3rd Floor	5x5x1/4	BF-2	cohesion	11	191	150

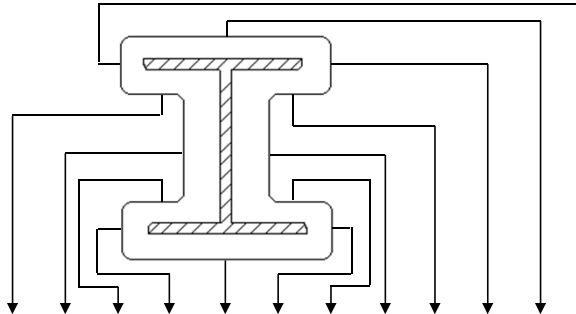
Comments: Cohesion test at BF-2 failed on 5/17/16, possible over-spray, so scraped off surface 1/4 inch, reset and retested on 5/24/16.

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 5/2/16



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		
Third Floor / 4th Framing	C-line from 4 to 4.5-line	W10x17	5/6/16	0.938	1.000	1.000	2.063	1.313	0.938	1.063	1.813	1.000	1.563						1.076	1.141	1.091
					0.875	1.563	1.875	1.188	1.000	1.125	1.938	0.938	1.438								
Third Floor / 4th Framing	C to D-line on 2.5-line	W16x26	5/6/16	0.938	0.875	0.625	1.750	0.813	1.125	0.813	1.625	0.813	1.063						0.991	0.781	0.945
					0.813	0.750	1.500	0.750	1.063	0.750	1.750	0.813	1.313								
Third Floor / 4th Framing	C-line from 3 to 4-line	W16x26	5/6/16	0.938	1.500	0.813	1.625	0.750	0.750	1.250	1.750	1.000	1.125						1.032	0.922	1.007
					1.625	0.750	1.500	0.750	0.750	1.000	1.500	1.250	0.938								
Third Floor / 4th Framing	C.9-line (-4) from 1.7 to 2.5-line	W16x31	5/6/16	0.875	0.938	0.813	1.375	0.813	1.000	0.750	1.125	0.750	1.000						0.964	0.797	0.927
					0.875	0.750	1.313	0.813	0.938	0.813	1.500	0.813	1.313								
Third Floor / 4th Framing	B-line from 1 to 1.8-line	W16x26	5/6/16	0.938	0.938	1.063	1.125	0.750	0.750	0.813	1.688	0.938	0.875						0.982	0.797	0.941
					1.063	0.750	1.563	0.750	1.125	0.875	1.625	0.813	0.750								
Third Floor / 4th Framing	A.1-line (+4) from 1 to 1.8-line	W16x31	5/6/16	0.875	1.125	0.938	1.375	0.688	0.688	0.750	1.313	0.813	0.688						0.929	0.813	0.903
					1.063	0.938	2.125	1.000	0.688	0.813	1.438	0.688	0.875								

* Not required for beams

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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)

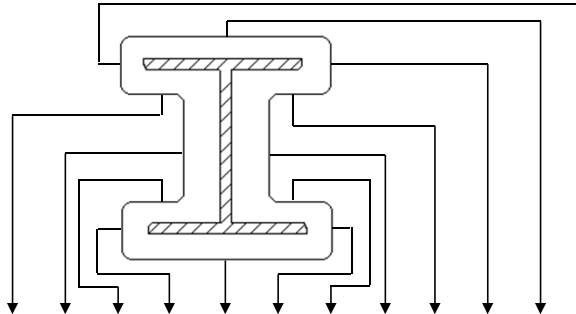
Comments:

Sampled by: KBG
Reviewed by: RED



**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 5/2/16



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
Third Floor / 4th Framing	Column C/1.7	W10x49	5/6/16	1.250	2.750	1.813	1.625	1.250	1.313	1.000	2.125	1.188	2.375	1.125	1.750	1.000	1.461	1.156	1.359
					2.500	2.250	2.813	1.313	1.625	1.313	1.875	1.375	2.250	1.250	1.563	1.000			
Third Floor / 4th Framing	Column C/4.5	W10x39	5/6/16	1.438	2.375	2.000	1.938	1.750	1.313	2.000	1.875	1.625	1.875	2.063	1.875	1.188	1.614	1.618	1.615
					2.563	1.875	1.875	2.000	1.438	2.063	2.250	1.188	2.000	1.875	2.000	1.625			
Third Floor / 4th Framing	Column B/4	W10x54	5/6/16	1.250	1.375	1.750	1.813	1.625	1.625	1.625	1.875	1.625	1.500	1.375	1.625	1.563	1.488	1.484	1.487
					1.438	1.875	1.875	1.625	1.875	1.625	1.813	1.688	1.750	1.500	1.563	1.500			
Third Floor / 4th Framing	Column B/3	W10x54	5/6/16	1.250	2.250	1.625	1.625	1.625	1.250	1.813	2.313	2.125	1.875	1.313	1.688	2.000	1.477	1.461	1.471
					2.750	1.750	1.625	1.563	1.813	1.875	2.125	1.813	2.000	1.375	1.375	2.000			
Third Floor / 4th Framing																			
Third Floor / 4th 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 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