Section 5.10. Objectives and Functional Statements

5.10.1. Objectives and Functional Statements

5.10.1.1. Attributions to Acceptable Solutions

1) For the purpose of compliance with this By-law as required in Clause 1.2.1.1.(1)(a) of Division A, the objectives and functional statements attributed to the acceptable solutions in this Part shall be the objectives and functional statements listed in Table 5.10.1.1. (See Note A-1.2.1.1.(1)(a).)

Table 5.10.1.1. (continued) Objectives and Functional Statements Attributed to the Acceptable Solutions in Part 5 Forming Part of Sentence 5.10.1.1.(1)

	Functional Statements and Objectives ⁽¹⁾
5.1.4.1. St	ructural and Environmental Loads
(1)	(a) [F55,F61,F63-OH1.1,OH1.2,OH1.3]
	[F20-OS3.1] Applies to snow fences and sloped glazing.
	[F61-OH4]
	(a) [F60,F61,F63-OS2.2,OS2.3]
	(a) [F20,F51,F55-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
	(b) [F20-OS2.1] [F21,F22-OS2.3,OS2.4]
	(b) [F20,F21,F22-OH1.1,OH1.2,OH1.3]
	(b) [F20-OH4]
(4)	[F20-OS2.1] [F21,F22-OS2.3,OS2.4]
(4)	[F20,F21,F22-OH1.1,OH1.2,OH1.3]
	(a) [F20-OS2.1] [F21,F22-OS2.3,OS2.4]
(5)	(a) [F20,F21,F22-OH1.1,OH1.2,OH1.3]
(5)	(b) [F20-OS2.1] [F21,F22-OS2.3,OS2.4]
	(b) [F20,F21,F22-OH1.1,OH1.2,OH1.3]
	[F20,F21,F22-OH1.1,OH1.2,OH1.3]
(6)	(a) [F20-OS2.1,OS2.3] (b) and (c) [F21,F22-OS2.3]
	(b) and (c) [F22-OH4]
5.1.4.2. R	esistance to Deterioration
	[F80,F81-OH1.1,OH1.2,OH1.3]
	[F80,F81-OS3.1] Applies to floor assemblies.
(1)	[F80,F81-OH4] Applies to floor assemblies.
	[F80,F81-OS2.3]
	[F80,F81-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
5.2.1.1. Ex	terior Environmental Loads
(2)	[F40,F20-OH1.1] [F20-OH1.2,OH1.3]
(2)	[F20-OS2.1]
5.2.1.2. In	terior Environmental Loads
	[F51,F55,F61,F63-OH1.1,OH1.2]
(1)	[F55,F61,F63-OS2.3]
(')	[F51,F61,F63,F55-OS1.4] Applies where required life safety systems are incorporated in environmental separators.

Table 5.10.1.1. (continued)

Objectives and Functional Statements Attributed to the Acceptable Solutions in Part 5

Forming Part of Sentence 5.10.1.1.(1)

	Forming Fait of Sentence 5.10.1.1.(1)	_
	Functional Statements and Objectives ⁽¹⁾	
5.2.1.3. Env	rironmental Load and Transfer Calculations	
	[F56-OH3.1] Applies to sound transmission calculations.	
(1)	[F61,F51,F63,F55-OH1.1,OH1.2] [F51,F61-OH1.3] Applies to heat, air and moisture transfer calculations.	
	[F61,F51,F63-OS2.3] Applies to heat, air and moisture transfer calculations.	
	[F61,F63,F55-OH1.1,OH1.2] [F61,F55-OH1.3]	
(3)	[F20-OS1.4] Applies where required life safety systems are incorporated in environmental separators.	
	[F20-OS2.1]	
5.2.2.1. Det	ermination of Structural Loads and Effects	
	[F20-OS2.1] [F21,F22-OS2.3,OS2.4]	
(1)	[F20,F21,F22-OH1.1,OH1.2,OH1.3]	
	[F20,F21,F22-OH4]	
	[F20-OS2.1] [F21,F22-OS2.3,OS2.4]	
(3)	[F20,F21,F22-OH1.1,OH1.2,OH1.3]	
	[F20,F21,F22-OH4]	
5.2.2.2. Det	ermination of Wind Load	
	[F20-OS2.1] [F22-OS2.3,OS2.4]	
(2)	[F20,F22-OH1.1,OH1.2,OH1.3]	
	[F20,F22-OH4]	
	[F20-OS2.1] [F22-OS2.3,OS2.4]	
(3)	[F20,F22-OH1.1,OH1.2,OH1.3]	
	[F20,F22-OH4]	
(4)	[F20,F55,F61-OH1.1,OH1.2,OH1.3]	
(4)	[F20,F55,F61-OS2.1,OS2.3]	Rev 14078
	[F20,F55,F61-OH1.1,OH1.2,OH1.3]	
(6)	[F20,F55,F61-OS2.1,OS2.3]	
5.2.2.3. Des	ign Procedures	
	[F20-OS2.1] [F22-OS2.3,OS2.4]	
(1)	[F20,F22-OH1.1,OH1.2,OH1.3]	
	[F20,F22-OH4]	
5.3.1.1. Rec	uired Resistance to Heat Transfer	
	[F63-OH1.1] [F51,F63-OH1.2]	
(1)	[F63-OS2.3]	
	[F51,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.	
5.3.1.2. Pro	perties to Resist Heat Transfer or Dissipate Heat	
	(a),(b) [F51,F63-OH1.1] (c) [F51-OH1.2]	
(1)	(b) and (d) [F51,F63-OS2.3]	7
	(b) [F51,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.	1
	(d) [F30-OS3.1]	7

Table 5.10.1.1. (continued)

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Objectives and Eventienal Oteters and Attail		the Assessments by Oslastic as in Davit F
Objectives and Functional Statements Attri	Duted to	The Acceptable Solutions in Part 5

Forming Part of Sentence 5.10.1.1.(1)

	Functional Statements and Objectives ⁽¹⁾
(1)	[F51,F63-OH1.1]
(1)	[F63-OS2.3]
(2)	[F51,F63-OH1.1,OH1.2]
	[F63-OS2.3]
	[F51,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
5.4.1.1. Re	equired Resistance to Air Leakage
	(a),(b),(f) [F51,F52,F54,F55-OH1.2] (a),(b),(c),(e) [F40,F55-OH1.1] (c) [F55,F61,F63-OH1.3]
(1)	(c) and (d) [F61,F62,F63,F55-OS2.3]
	(d) [F55,F62-OS3.1]
	(f) [F55,F62-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
	[F40-OH1.1] [F52,F54-OH1.2] [F51,F55,F61,F63-OH1.1,OH1.2,OH1.3]
(2)	[F61,F63-OS2.3]
	[F51,F55-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
5.4.1.2. Ai	r Barrier System Properties
	[F55-OH1.1,OH1.2,OH1.3]
(1)	[F55-OS2.3]
	[F55-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
	[F61,F51,F63,F55-OH1.1,OH1.2] [F55,F61-OH1.3]
(3)	[F61,F63-OS2.3]
(3)	[F61,F51,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
5.5.1.1. Re	equired Resistance to Vapour Diffusion
(4)	[F63-OH1.1,OH1.2]
(1)	[F63-OS2.3]
	[F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]
5.5.1.2. Va	pour Barrier Properties and Installation
(4)	[F63-OH1.1,OH1.2]
(1)	[F63-OS2.3]
	[F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]
(0)	[F63-OH1.1,OH1.2]
(3)	[F63-OS2.3]
5.6.1.1. Re	equired Protection from Precipitation
(4)	[F61-OH1.1,OH1.2,OH1.3]
(1)	[F61-OS2.3]
5.6.1.2. In	stallation of Protective Materials
(4)	[F61-OH1.1,OH1.2,OH1.3]
(1)	[F61-OS2.3]
	, J

Table 5.10.1.1. (continued) Objectives and Functional Statements Attributed to the Acceptable Solutions in Part 5 Forming Part of Sentence 5.10.1.1.(1)

	Forming Part of Sentence 5.10.1.1.(1) Functional Statements and Objectives ⁽¹⁾	
	[F20,F55,F61-OH1.1,OH1.2,OH1.3]	
(2)	[F20,F55,F61-OS2.1,OS2.3]	
(4)	[F61-OH1.1,OH1.2,OH1.3]	
	[F61-OS2.3]	
(5)	[F61-OH1.1,OH1.2,OH1.3]	Rev 14078
	[F61-OS2.3]	
	[F20,F55,F61-OH1.1,OH1.2,OH1.3]	
(6)	[F20,F55,F61-OS2.1,OS2.3]	
5621 Se	Sealing and Drainage	
0.0.2.11. 0	[F61,F62-OH1.1,OH1.2,OH1.3]	
(1)	[F61,F62-OS2.3]	
5.6.2.2. A	ccumulation and Disposal	
(1)	[F30-OS3.1]	
	[F61-OH1.1,OH1.2,OH1.3]	
(2)	[F61-OS2.3]	
	[F61-OH1.1,OH1.2,OH1.3]	
(3)	[F60-OS2.3] [F21-OS2.2]	
	(b) [F21-OP2.6]	
	[F61-OH1.1,OH1.2,OH1.3]	
(4)	[F61-OS2.3]	
	[F61-OH1.1,OH1.2,OH1.3]	Rev 14078
(6)	[F61-OS2.3]	
5.7.1.2. R	Required Protection	
	[F60-OH1.1,OH1.2,OH1.3]	
(1)	[F60-OS2.3]	
	[F60-OH1.1,OH1.2,OH1.3]	
(2)	[F60-OS2.2,OS2.3]	
5.7.3.2. R	Required Protection	
(4)	[F61-OH1.1,OH1.2,OH1.3]	
(1)	[F61-OS2.3]	
5.7.3.3. W	Vaterproofing	
(4)	[F61-OH1.1,OH1.2,OH1.3]	
(1)	[F61-OS2.3]	
5.7.3.4. W	Vhere Dampproofing is Permitted	
(4)	[F61-OH1.1,OH1.2,OH1.3]	
(1)	[F61-OS2.3]	
(2)	[F61-OH1.1,OH1.2,OH1.3]	
(2)	[F61-OS2.3]	
5.8.1.1. R	Required Protection	
(1)	[F56-OH3.1]	
(2)	[F56-OH3.1]]
5.8.1.2. D	Determination of Sound Transmission Ratings	

Table 5.10.1.1. (continued) Objectives and Functional Statements Attributed to the Acceptable Solutions in Part 5 Forming Part of Sentence 5.10.1.1.(1)

	Forming Part of Sentence 5.10.1.1.(1)
	Functional Statements and Objectives ⁽¹⁾
(1)	[F56-OH3.1]
(2)	[F56-OH3.1]
5.8.1.4. D	etailed Method for Calculating ASTC
(1)	[F56-OH3.1]
(2)	[F56-OH3.1]
(3)	[F56-OH3.1]
(4)	[F56-OH3.1]
(5)	[F56-OH3.1]
(6)	[F56-OH3.1]
(7)	[F56-OH3.1]
5.8.1.5. Si	mplified Method for Calculating ASTC
(1)	[F56-OH3.1]
(2)	[F56-OH3.1]
(3)	[F56-OH3.1]
(4)	[F56-OH3.1]
(5)	[F56-OH3.1]
(6)	[F56-OH3.1]
5.9.1.1. C	ompliance with Applicable Standards
	[F20,F22,F51,F54,F55,F61,F63,F80-OH1.1,OH1.2] [F41,F55-OH1.1] [F55,F61,F80-OH1.3]
	[F20,F80-OS2.1] [F20,F22,F51,F61,F63,F80-OS2.3] [F51-OS2.5]
	[F80,F61,F63-OS3.1]
(1)	[F80,F61,F63-OH4] Applies to floor assemblies.
	(a) [F61,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
	[F20,F80-OP2.1,OP2.3] [F22,F80-OP2.4]
	[F42-OH2.5]
5.9.2.2. A	oplicable Standards
	[F20,F55,F61,F63-OH1.1,OH1.3] [F20,F55,F61,F63,F81-OH1.2]
(1)	[F20,F55,F61-OS2.3]
	[F20,F55,F61-OP2.3]
5.9.2.4. H	eat Transfer
	[F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]
5.9.3.3. H	eat Transfer
	[F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]
5.9.3.4. A	r Leakage
	[F55,F63-OH1.1,OH1.2,OH1.3]
(2)	[F55,F63-OS2.3]
. /	[F55-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
5.9.3.5 W	ater Penetration

Table 5.10.1.1. (continued) Objectives and Functional Statements Attributed to the Acceptable Solutions in Part 5 Forming Part of Sentence 5.10.1.1.(1)

Functional Statements and Objectives ⁽¹⁾		
(2)	[F61-OH1.1,OH1.2,OH1.3]	
	[F61-OS2.3]	
5.9.4.1. Structural Loads, Heat Transfer, Air Leakage, Vapour Diffusion and Water Penetration		
(4)	(b) [F61,F62-OH1.1,OH1.2,OH1.3]	
(1)	(b) [F61,F62-OS2.3]	

Notes to Table 5.10.1.1.:

(1) See Parts 2 and 3 of Division A.

BUILDING BY-LAW 2019 - CITY OF VANCOUVER

SCHE	DULE D Building Permit No			
Forming Part of Senter Bui	(for Building Off ence 5.1.2.2.(2), Division B of the illding By-law	cial s use)		
COMM BUILDING ENVELOPE	IITMENT FOR E PROFESSIONAL REVIEW			
Notes:				
 i) This letter must be submitted before issuance of a built ii) This letter is endorsed by: Architectural Institute of B. Province of British Columbia. iii) In this letter the words in italics have the same meaning 	.C. and the Association of Professional Engineers and Geoso	ientists of the		
To: The Chief Building Official				
RE:				
Address of Project (Print)	0			
The undersigned <i>Building Envelope Professional</i> has been retained of responsibility for <i>Building Envelope Professional</i> design review in Article 5.1.2.2. in Part 5 of Division B, of the Building By-law tion considers to be necessary, for the <i>project</i> designed by,	v and enhanced field review for components and assemblies	as required		
Name of registered professional signing for 'A	srchitectural' items of Schedule B letter (Print)			
who is providing the <i>Chief Building Official</i> with a Schedule B 'A FIELD REVIEW' letter covering 'Architectural' items. The undersi <i>sional</i> responsible for 'Architectural' items, and copies of these re District Building Inspector. The undersigned undertakes to notify t terminated at any time.	signed will sign and provide copies of all reports to the <i>regis</i> ports shall also be available on site, for review by the City of	tered profes- f Vancouver		
Name (Print)	Professional's Seal and Signature			
Address of (Print)				
City Postal Code	Certified Professional's Sta and Signature	mp		
Telephone Email (Print)	(if applicable)			
(If the <i>Building Envelope Professional</i> is a member of a firm, complete the following.) I am a member of the firm;and I sign this letter on behalf of the firm. (Print Name of Firm) NOTE: The above letter must be signed by a <i>Building Envelope Professional</i> . The Building By-Law defines a <i>Building Envelope Professional</i> to				
mean a person who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscientists of the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.				
		CRP's Initials		

BUILDING BY-LAW 2019 – CITY OF VANCOUVER

	SCHEDULE C-D Forming Part of Sentence 5.1.2.2.(3), Division B of the Building By-law	Building Permit No (for Building Official's use)
	COMPLETION OF BUILDING ENVELOPE PROFESSIONA	L REVIEW
ii) This letter is er Province of Bri	t be submitted after the completion of the <i>project</i> at final inspec ndorsed by: Architectural Institute of B.C. and the Association o tish Columbia. e words in italics have the same meaning as in the Building By-	f Professional Engineers and Geoscientists of the
To: The Chief Building Of	fficial	
RE:		
Address	of Project (Print)	
	bstantially comply with Article 5.1.2.2. in Part 5 of Division uments, including all amendments thereto, which were a ding permit.	
City	Postal Code	Certified Professional's Stamp and
Telephone (Print)	Email	Signature (if applicable)
(If the Building Envelope Pro	ofessional is a member of a firm, complete the following.)
I am a member of the firm;	and I sid	′ gn this letter on behalf of the firm.
NOTE: The above letter mu Professional to mean a pers	(Print Name of Firm) ust be signed by a <i>Building Envelope Professional</i> . The on who is a member of the Architectural Institute of Britis s of the Province of British Columbia qualified by virtue o	Building By-Law defines a <i>Building Envelope</i> sh Columbia or the Association of Professional
	1 of 1	<i>CRP's</i> Initials