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.

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	Structural and Environmental Loads
•	(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]
(1)	(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]
(3)	(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.	Resistance 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.	Exterior Environmental Loads
(2)	[F40,F20-OH1.1] [F20-OH1.2,OH1.3]
(2)	[F20-OS2.1]
5.2.1.2.	Interior 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.

Vancouver Building By-law 2019 Division B

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⁾
5.2.1.3. Er	vironmental 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. De	termination 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. De	termination 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]
5.2.2.3. De	sign 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. Re	quired 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. Pr	operties 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]
	(b) [F51,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
F 2 4 2	(d) [F30-OS3.1]
5.3.1.3. LO	cation and Installation of Materials Providing Thermal Resistance
(1)	[F51,F63-OH1.1]
	[F63-OS2.3]

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⁾
	[F51,F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]
	[F51,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
5.4.1.1. Re	quired 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	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]
(0)	[F61,F51,F63-OS1.4] Applies where required life safety systems are incorporated in environmental separators.
5.5.1.1. Re	quired Resistance to Vapour Diffusion
(1)	[F63-OH1.1,OH1.2]
(1)	[F63-OS2.3]
(2)	[F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]
5.5.1.2. Va	pour Barrier Properties and Installation
(1)	[F63-OH1.1,OH1.2]
(1)	[F63-OS2.3]
(2)	[F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]
(0)	[F63-OH1.1,OH1.2]
(3)	[F63-OS2.3]
5.6.1.1. Re	quired Protection from Precipitation
(1)	[F61-OH1.1,OH1.2,OH1.3]
(1)	[F61-OS2.3]
5.6.1.2. Ins	stallation of Protective Materials
(1)	[F61-OH1.1,OH1.2,OH1.3]
(1)	[F61-OS2.3]
(2)	[F61-OH1.1,OH1.2,OH1.3]
(2)	[F61-OS2.3]

Vancouver Building By-law 2019

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⁾
5.6.2.1. Seal	ing and Drainage
(4)	[F61,F62-OH1.1,OH1.2,OH1.3]
(1)	[F61,F62-OS2.3]
5.6.2.2. Accu	imulation and Disposal
(1)	[F30-OS3.1]
(0)	[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]
(4)	[F61-OH1.1,OH1.2,OH1.3]
(4)	[F61-OS2.3]
5.7.1.2. Requ	uired Protection
(4)	[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. Requ	uired Protection
(4)	[F61-OH1.1,OH1.2,OH1.3]
(1)	[F61-OS2.3]
5.7.3.3. Wate	erproofing
(4)	[F61-OH1.1,OH1.2,OH1.3]
(1)	[F61-OS2.3]
5.7.3.4. Whe	re Dampproofing is Permitted
(4)	[F61-OH1.1,OH1.2,OH1.3]
(1)	[F61-OS2.3]
(0)	[F61-OH1.1,OH1.2,OH1.3]
(2)	[F61-OS2.3]
5.8.1.1. Requ	uired Protection
(1)	[F56-OH3.1]
(2)	[F56-OH3.1]
5.8.1.2. Dete	rmination of Sound Transmission Ratings
(1)	[F56-OH3.1]
(2)	[F56-OH3.1]
5.8.1.4. Deta	iled 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]

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⁾		
5.8.1.5. S	5.8.1.5. Simplified 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	pplicable Standards		

5.9.2.2. Applicable 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. Heat Transfer

(2)	[F63-OH1.1,OH1.2]
(2)	[F63-OS2.3]

5.9.3.3. Heat Transfer

(2)	[F63-OH1.1,OH1.2]
(2)	IF63-OS2 31

5.9.3.4. Air 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. Water Penetration

(2)	[F61-OH1.1,OH1.2,OH1.3]
(2)	[F61-OS2.3]

5.9.4.1. Structural Loads, Heat Transfer, Air Leakage, Vapour Diffusion and Water Penetration

(1)	(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

SCHEDULE D

Building Permit No.

(for Building Official's use)

Forming Part of Sentence 5.1.2.2.(2), Division B of the Building By-law

COMMITMENT FOR BUILDING ENVELOPE PROFESSIONAL REVIEW

Notes:

-) This letter must be submitted before issuance of a building permit.
- ii) This letter is endorsed by: Architectural Institute of B.C. and the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- iii) In this letter the words in italics have the same meaning as in the Building By-law.

Address of Project (Print) The undersigned Building Envelope Professional has been retained with respect to the above referenced project, and gives a commitmen of responsibility for Building Envelope Professional design review and enhanced field review for components and assemblies as required in Article \$1.1.2.2. In Part \$ of Division B, of the Building By-law, and as the Building Envelope Professional in their professional discretion considers to be necessary, for the project designed by. Name of registered professional signing for "Architectural" items of Schedule B letter (Print) who is providing the Chief Building Official with a Schedule B 'ASSURANCE OF PROFESSIONAL DESIGN AND COMMITMENT FOR FIELD REVIEW letter covering 'Architectural' items. The undersigned will sign and provide copies of all reports to the registered professional responsible for 'Architectural' items, and copies of these reports shall also be available on site, for rew by the City of Vancouve District Building Inspector. The undersigned undertakes to notify the Chief Building Official in writing as soon as practical if their contract is terminated at any time. Professional's Seal and Signature City Postal Code Email (Print) Address of (Print) City Postal Code Email (Print) Address of Professional is a member of a firm, complete the following.) and a member of the firm; (Print Name of Firm) OTE: The above letter must be signed by a Building Envelope Professional. The Building By-Law defines a Building Envelope Professional for the Province of British Columbia or the Architectural institute of British Columbia or the Association of Professional Engineers and Geoscient of the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.	RE:		
of responsibility for Building Envelope Professional design review and enhanced field review for components and assemblies as required in Article 51.22. In Part 5 of Division B, of the Building By-law, and as the Building Envelope Professional in their professional discretion considers to be necessary, for the project designed by, Name of registered professional signing for 'Architectural' items of Schedule B letter (Print) who is providing the Chief Building Official with a Schedule B 'ASSURANCE OF PROFESSIONAL DESIGN AND COMMITMENT FOF FIELD REVIEW' letter covering 'Architectural' items, and copies of these reports shall also be available on site, for review by the City of Vancouve District Building Inspector. The undersigned undertakes to notify the Chief Building Official in writing as soon as practical if their contract is terminated at any time. Name (Print)	Address of Project	t (Print)	
who is providing the Chief Building Official with a Schedule B 'ASSURANCE OF PROFESSIONAL DESIGN AND COMMITMENT FOF FIELD REVIEW letter covering 'Architectural' items. The undersigned will sign and provide copies of all reports to the registered professional responsible for 'Architectural' items, and copies of these reports shall also be available on site, for review by the Chi y of Vancouve District Building Inspector. The undersigned undertakes to notify the Chief Building Official in writing as soon as practical if their contract is terminated at any time. Name (Print)	of responsibility for <i>Building Envelop</i> in Article 5.1.2.2. in Part 5 of Divis	e <i>Professional</i> design review and enhanced <i>t</i> ion B , of the Building By-law, and as the <i>Bui</i>	ield review for components and assemblies as required
FIELD REVIEW letter covering 'Architectural' items. The undersigned will sign and provide copies of all reports to the registered professional responsible for 'Architectural' items, and copies of these reports shall also be available on site, for review by the City of Vancouve District Building Inspector. The undersigned undertakes to notify the Chief Building Official in writing as soon as practical if their contract is reminated at any time. Name (Print)	Name of register	ed professional signing for 'Architectural' items	of Schedule B letter (Print)
Name (Print) City	FIELD REVIEW letter covering 'Archisional responsible for 'Architectural' i District Building Inspector. The unde	itectural' items. The undersigned will sign and tems, and copies of these reports shall also be	nd provide copies of all reports to the <i>registered profe</i> s- be available on site. for review by the City of Vancouver
Address of (Print) City Postal Code Telephone Email (Print) f the Building Envelope Professional is a member of a firm, complete the following.) am a member of the firm;	terminated at any time.	1 OF	
Telephone Email (Print) (if applicable) the Building Envelope Professional is a member of a firm, complete the following.) m a member of the firm;			_
the Building Envelope Professional is a member of a firm, complete the following.) m a member of the firm; and I sign this letter on behalf of the firm. (Print Name of Firm) DTE: The above letter must be signed by a Building Envelope Professional. The Building By-Law defines a Building Envelope Professional aperson who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscient the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.	City	Postal Code	
and I sign this letter on behalf of the firm. (Print Name of Firm) TE: The above letter must be signed by a Building Envelope Professional. The Building By-Law defines a Building Envelope Professional and a person who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscient the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.	Telephone	Email (Print)	(if applicable)
m a member of the firm; and I sign this letter on behalf of the firm. (Print Name of Firm) DTE: The above letter must be signed by a Building Envelope Professional. The Building By-Law defines a Building Envelope Professional aperson who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscient the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.			
am a member of the firm; and I sign this letter on behalf of the firm. (Print Name of Firm) OTE: The above letter must be signed by a <i>Building Envelope Professional</i> . The Building By-Law defines a <i>Building Envelope Professional</i> ean a person who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscient the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.	the Building Envelope Professional in	a member of a firm, complete the fallering.	
(Print Name of Firm) DTE: The above letter must be signed by a Building Envelope Professional. The Building By-Law defines a Building Envelope Professional ean a person who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscient the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.	,	, ,	this letter on behalf of the f
DTE: The above letter must be signed by a <i>Building Envelope Professional</i> . The Building By-Law defines a <i>Building Envelope Professional</i> ean a person who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscient the Province of British Columbia qualified by virtue of training or experience to provide building enclosure services.	m a member of the firm;	and I sig (Print Name of Firm)	n this letter on behalf of the firm.
CRP's li	ean a person who is a member of the	Architectural Institute of British Columbia or th	ne Association of Professional Engineers and Geoscienti
CRP's II			
			CRP's In

Division B

To: The Chief Building Official

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 PROFESSIONAL REVIEW

Notes:

- i) This letter must be submitted after the completion of the *project* at final inspection.
- ii) This letter is endorsed by: Architectural Institute of B.C. and the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- iii) In this letter the words in italics have the same meaning as in the Building By-law.

ubmitted letter of COMMITMENT FOR the <i>project</i> reviewed substantially co	ng Envelope Professional design review and e R BUILDING ENVELOPE PROFESSIONAL R Imply with Article 5.1.2.2. in Part 5 of Division ding all amendments thereto, which were acce	EVIEW. The components and assemb B, of the Building By-law, and with the
Name (Print) Address of (Print)	OF VAIV	Professional's Seal and Signature
City	Postal Code	Certified Professional's Stamp and
Telephone (Print)	Email	Signature (if applicable)
no Building Envolono Brotonoianal is s	a mambar of a firm, complete the following	
n a member of the firm:	a member of a firm, complete the following.) _and I sign	this letter on behalf of the firm.
m a member of the firm;(Pr	and I sign	
n a member of the firm; (Pr TE: The above letter must be signed fessional to mean a person who is a n gineers and Geoscientists of the Provi	and I sign	uilding By-Law defines a <i>Building Enve</i> Columbia or the Association of Profes
n a member of the firm; (Pr TE: The above letter must be signed of the s	and I sign	uilding By-Law defines a <i>Building Enve</i> Columbia or the Association of Profes
n a member of the firm; (Pr TE: The above letter must be signed fessional to mean a person who is a n gineers and Geoscientists of the Provi	and I sign	uilding By-Law defines a <i>Building Enve</i> Columbia or the Association of Profes

Vancouver Building By-law 2019