Appendix 4 Photos of concrete slabs taken during resistance to scaling test (BNQ 2621-905/2012)



Source #5 Exposure class C-2



Sample: Source # 5 – Exposure class C-2

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.01	Mass loss after 7 cycles (kg/m²)	0.04
Cumulative mass loss (kg/m²)	0.01	Cumulative mass loss (kg/m²)	0.04
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.02	Mass loss after 21 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.03	Cumulative mass loss (kg/m²)	0.07
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





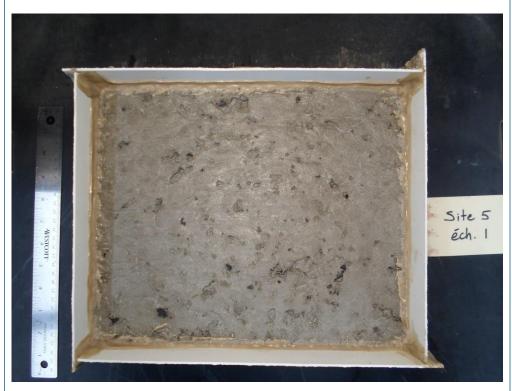
Mass loss after 35 cycles (kg/m²)	0.01	Mass loss after 35 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.04	Cumulative mass loss (kg/m²)	0.10
Comments :		comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.01	Mass loss after 56 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.05	Cumulative mass loss (kg/m²)	0.13
<u>Comments</u> : Index 2-A - No significant scaling of sobserved	surface mortar, but small number of popouts	Comments: Index 2-A - No significant scaling of sobserved	surface mortar, but small number of popouts

Performed by : Alexandre Lacroix, tech.



Source #5
Exposure class C-2
(Second trial)



		P	HOTOS – RESISTANCE TO SCALING (BNQ 2621-905/2012)
Sample :	Source # 5 – Exposure class C-2 (Second trial)		
Number of cycles :			
	n/a		n/a
Comments :			



Alexandre Lacroix, tech.

2016-12-06

Performed by :

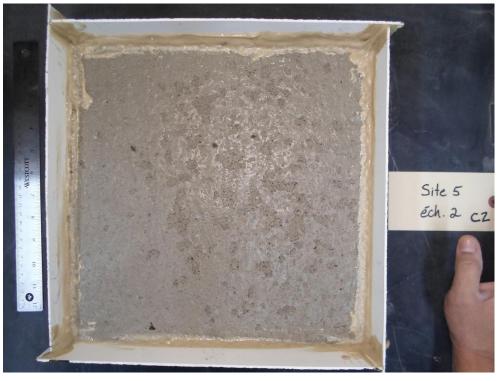
Date :



Sample: Source # 5 – Exposure class C-2 (Second trial)

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.08	Mass loss after 7 cycles (kg/m²)	0.08
Cumulative mass loss (kg/m²)	0.08	Cumulative mass loss (kg/m²)	0.08
Comments :		Comments :	

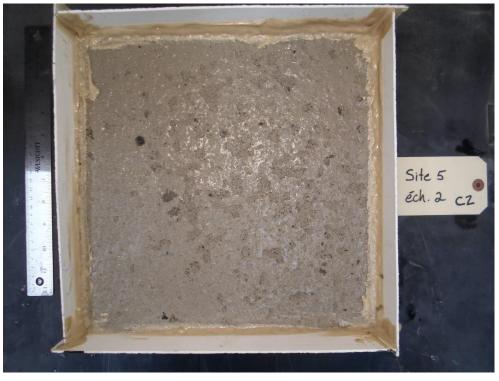
Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class C-2 (Second trial)

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.01	Mass loss after 21 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.09	Cumulative mass loss (kg/m²)	0.11
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class C-2 (Second trial)

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.02	Mass loss after 35 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.11	Cumulative mass loss (kg/m²)	0.12
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.

Date : 2017-01-10



Sample: Source # 5 – Exposure class C-2 (Second trial)

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.00	Mass loss after 56 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.11	Cumulative mass loss (kg/m²)	0.13
<u>Comments</u> : Index 2-A - No significant scaling of s observed	urface mortar, but small number of popouts	Comments: Index 2-A - No significant scaling of sobserved	surface mortar, but small number of popouts

Performed by : Alexandre Lacroix, tech.

Date: 2017-01-31



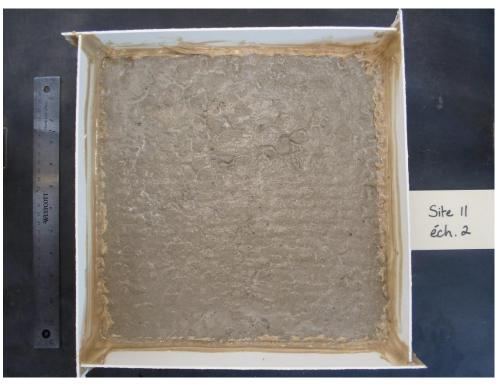
Source #11 Exposure class C-2



Sample: Source # 11 – Exposure class C-2

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 11 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.05	Mass loss after 7 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.05	Cumulative mass loss (kg/m²)	0.03
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 11 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





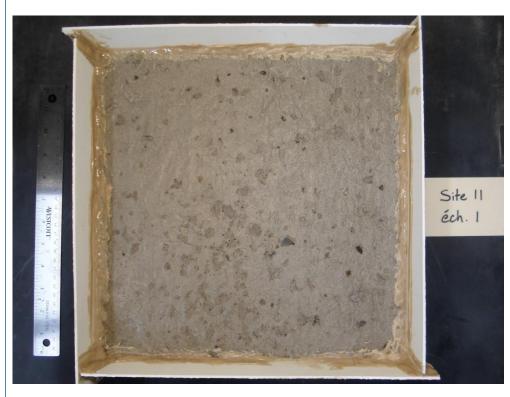
Mass loss after 21 cycles (kg/m²)	0.01	Mass loss after 21 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.06	Cumulative mass loss (kg/m²)	0.05
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 11 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.01	Perte individuelle à 35 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.07	Perte individuelle cumulative (kg/m²)	0.06
Comments :		Évaluation visuelle :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 11 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.01	Mass loss after 56 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.07	Cumulative mass loss (kg/m²)	0.06
Comments: Index 2-A - No significant scaling of surface mortar, but small number of popouts		Comments: Index 2-A - No significant scaling of surface mortar, but small number of popouts	
observed		observed	

Performed by : Alexandre Lacroix, tech.



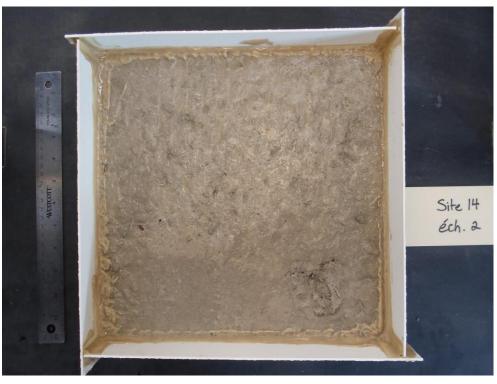
Source #14 Exposure class C-2



Sample : Source # 14 – Exposure Class C-2

Number of cycles :





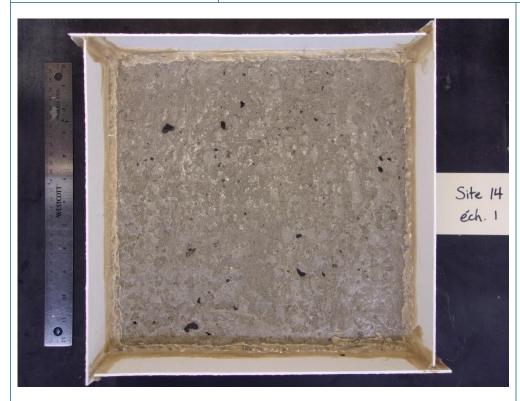
Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 14 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.19	Mass loss after 7 cycles (kg/m²)	0.23
Cumulative mass loss (kg/m²)	0.19	Cumulative mass loss (kg/m²)	0.23
Comments :		Comments :	
	0.10		0.20

Performed by : Alexandre Lacroix, tech.



Sample: Source # 14 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.05	Mass loss after 21 cycles (kg/m²)	0.10
Cumulative mass loss (kg/m²)	0.24	Cumulative mass loss (kg/m²)	0.33
Comments :		Comments :	

Performed by :

Alexandre Lacroix, tech.

Date:

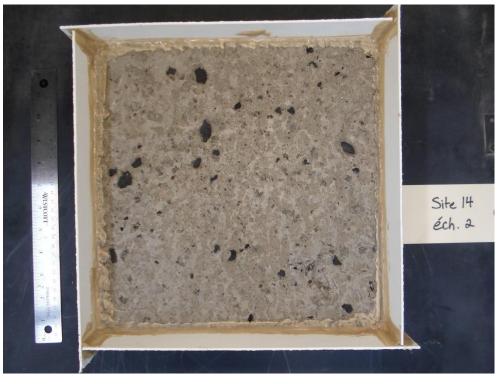
2016-09-21



Sample: Source # 14 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.05	Mass loss after 35 cycles (kg/m²)	0.06
Cumulative mass loss (kg/m²)	0.29	Cumulative mass loss (kg/m²)	0.39
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 14 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.07	Mass loss after 56 cycles (kg/m²)	0.05
Cumulative mass loss (kg/m²)	0.36	Cumulative mass loss (kg/m²)	0.44
Comments: Index 3 - Combination of surface mor aggregate	tar scaling mainly with fragmented coarse	Comments: Index 3 - Combination of surface mor aggregate	tar scaling mainly with fragmented coarse

Performed by : Alexandre Lacroix, tech.



Source #17 Exposure class C-2



Sample: Source # 17 – Exposure class C-2

Number of cycles :





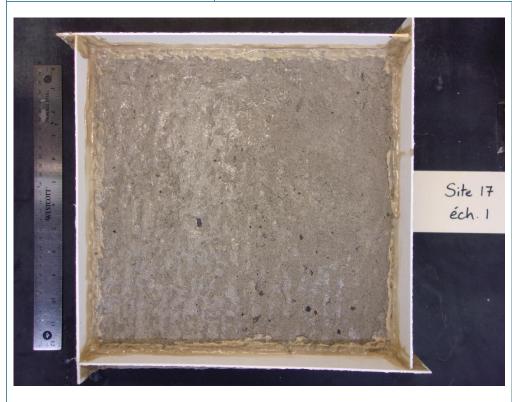
Comments:

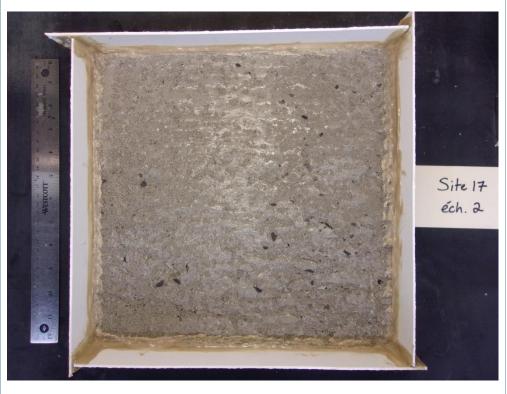
Performed by : Alexandre Lacroix, tech.



Sample: Source # 17 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.25	Mass loss after 7 cycles (kg/m²)	0.19
Cumulative mass loss (kg/m²)	0.25	Cumulative mass loss (kg/m²)	0.19
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 17 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.03	Mass loss after 21 cycles (kg/m²)	0.05
Cumulative mass loss (kg/m²)	0.28	Cumulative mass loss (kg/m²)	0.24
Comments :		Comments :	

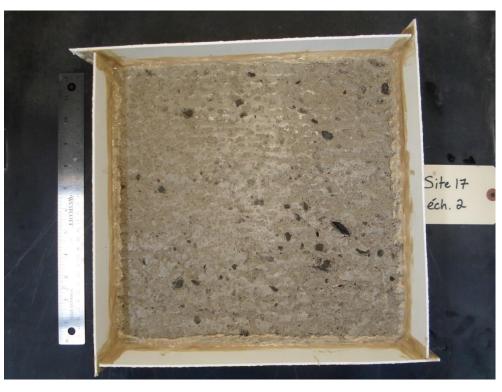
Performed by : Alexandre Lacroix, tech.



Sample: Source # 17 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.02	Mass loss after 35 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.30	Cumulative mass loss (kg/m²)	0.27
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 17 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.02	Mass loss after 56 cycles (kg/m²)	0.04
Cumulative mass loss (kg/m²)	0.32	Cumulative mass loss (kg/m²)	0.31
Comments: Index 3 - Combination of surface mortar scaling mainly with fragmented coarse		<u>Comments</u> : Index 3 - Combination of surface mortar scaling mainly with fragmented coarse aggregate	
aggregate		aggrogato	

Performed by : Alexandre Lacroix, tech.



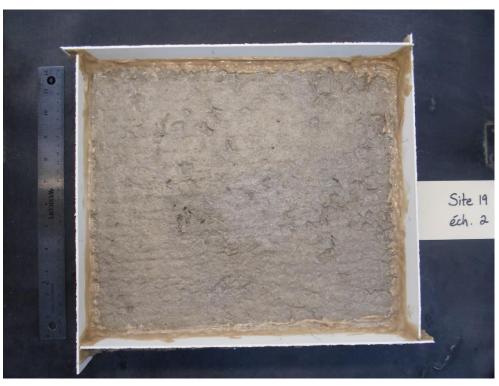
Source #19 Exposure class C-2



Sample: Source # 19 – Exposure class C-2

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.27	Mass loss after 7 cycles (kg/m²)	0.27
Cumulative mass loss (kg/m²)	0.27	Cumulative mass loss (kg/m²)	0.27
Comments :		Comments :	

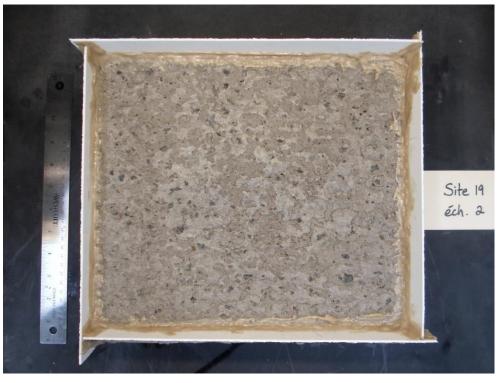
Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.04	Mass loss after 21 cycles (kg/m²)	0.04
Cumulative mass loss (kg/m²)	0.31	Cumulative mass loss (kg/m²)	0.31
Comments :		Comments :	

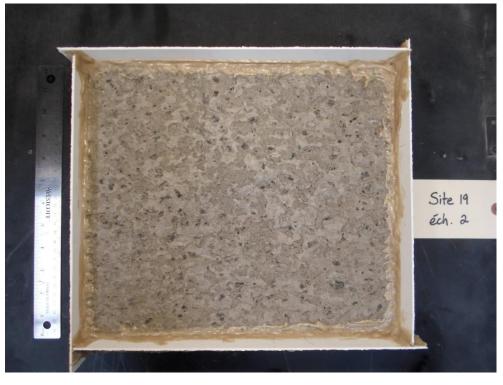
Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





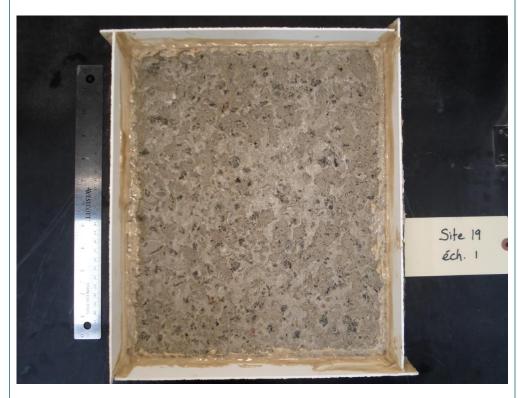
Mass loss after 35 cycles (kg/m²)	0.03	Mass loss after 35 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.34	Cumulative mass loss (kg/m²)	0.33
Comments :		Comments :	

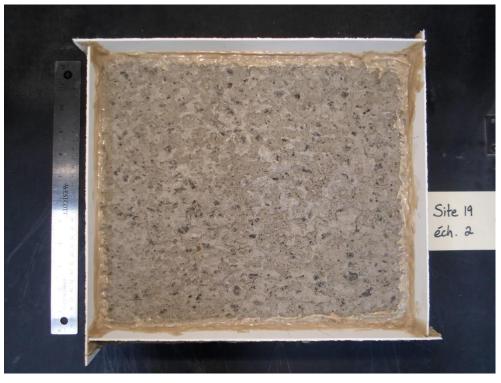
Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.03	Mass loss after 56 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.37	Cumulative mass loss (kg/m²)	0.36
<u>Comments</u> : Index 4 - Combination of fragmented mortar	coarse aggregate mainly with scaling of surface	<u>Comments</u> : Index 4 - Combination of fragmented mortar	coarse aggregate mainly with scaling of surface

Performed by : Alexandre Lacroix, tech.



Source #19
Exposure class C-2
(Second trial)



		Pi	HOTOS – RESISTANCE TO SCALING (BNQ 2621-905/2012)
Sample :	Source # 19 – Exposure class C-2 (Second trial)		
Number of cycles :			
	n/a		n/a
Comments :			

Performed by : Alexandre Lacroix, tech. Date :

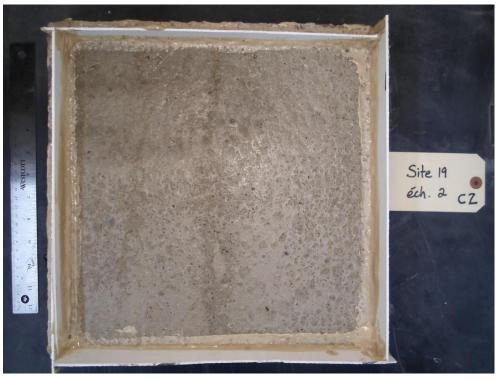




Sample: Source # 19 – Exposure class C-2 (Second trial)

Number of cycles : After 7 freeze-thaw cycles





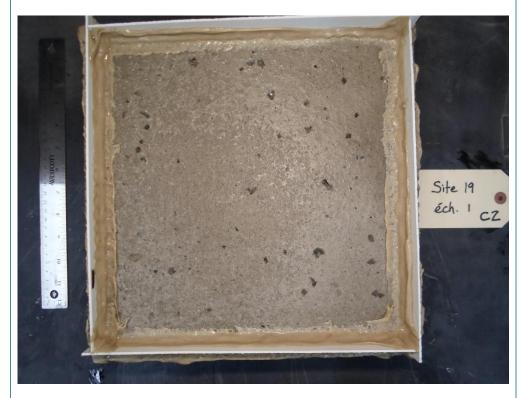
Mass loss after 7 cycles (kg/m²)	0.04	Mass loss after 7 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.04	Cumulative mass loss (kg/m²)	0.02
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class C-2 (Second trial)

Number of cycles : After 21 freeze-thaw cycles





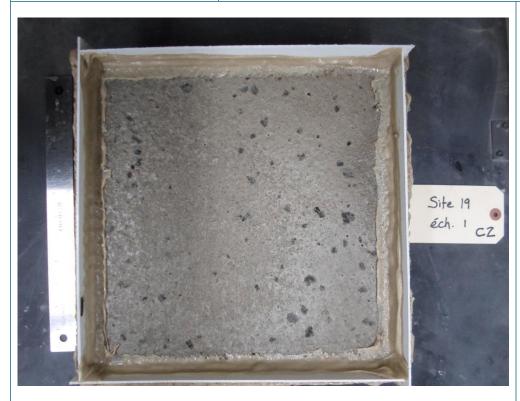
Mass loss after 21 cycles (kg/m²)	0.01	Mass loss after 21 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.05	Cumulative mass loss (kg/m²)	0.04
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class C-2 (Second trial)

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.00	Mass loss after 35 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.05	Cumulative mass loss (kg/m²)	0.05
Comments :		Comments :	

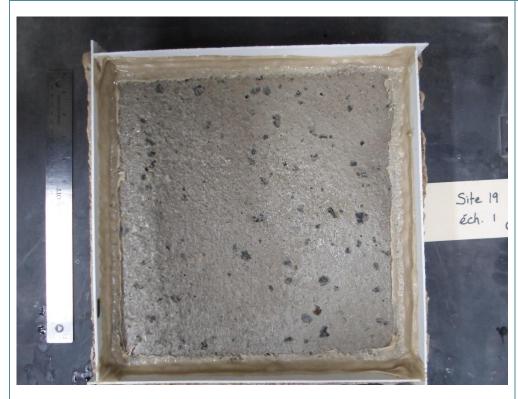
Performed by : Alexandre Lacroix, tech.

Date : 2017-01-10



Sample: Source # 19 – Exposure class C-2 (Second trial)

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.01	Mass loss after 56 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.06	Cumulative mass loss (kg/m²)	0.06
Comments: Index 2-A - No significant scaling of surface mortar, but small number of popouts		<u>Comments</u> : Index 2-A - No significant scaling of surface mortar, but small number of popouts	
observed		observed	

Performed by : Alexandre Lacroix, tech.

Date: 2017-01-31



Source #22 Exposure class C-2



Sample: Source # 22 – Exposure class C-2

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 22 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





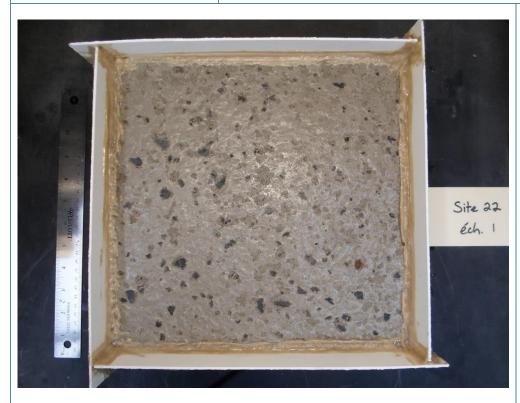
Mass loss after 7 cycles (kg/m²)	0.07	Mass loss after 7 cycles (kg/m²)	0.05
Cumulative mass loss (kg/m²)	0.07	Cumulative mass loss (kg/m²)	0.05
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 22 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





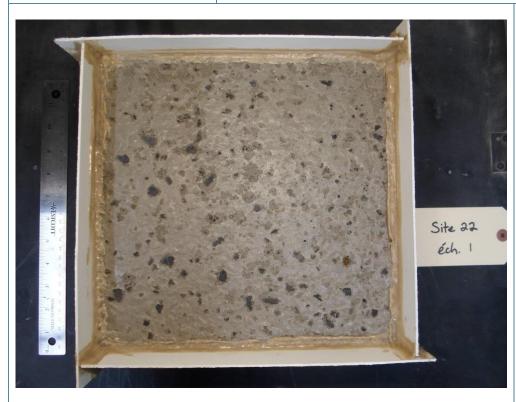
Mass loss after 21 cycles (kg/m²)	0.05	Mass loss after 21 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.12	Cumulative mass loss (kg/m²)	0.07
Comments :		Comments :	

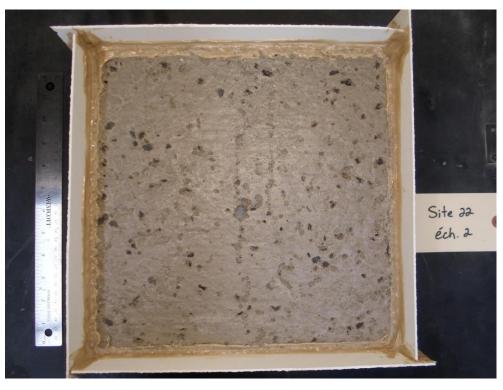
Performed by : Alexandre Lacroix, tech.



Sample: Source # 22 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





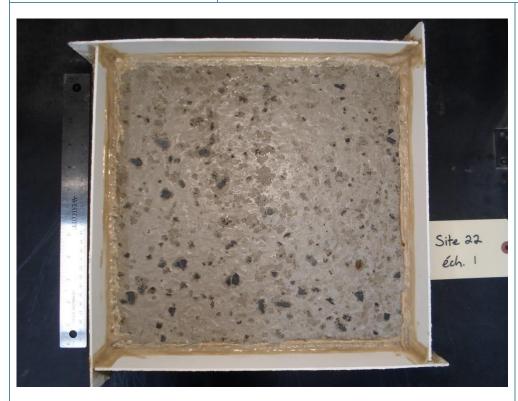
Mass loss after 35 cycles (kg/m²)	0.02	Mass loss after 35 cycles (kg/m²)	0.00
Cumulative mass loss (kg/m²)	0.14	Cumulative mass loss (kg/m²)	0.07
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 22 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.02	Mass loss after 56 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.16	Cumulative mass loss (kg/m²)	0.08
<u>Comments</u> : Index 3 - Combination of surface mortar scaling mainly with fragmented coarse aggregate		Comments: Index 3 - Combination of surface mor aggregate	tar scaling mainly with fragmented coarse

Performed by : Alexandre Lacroix, tech.



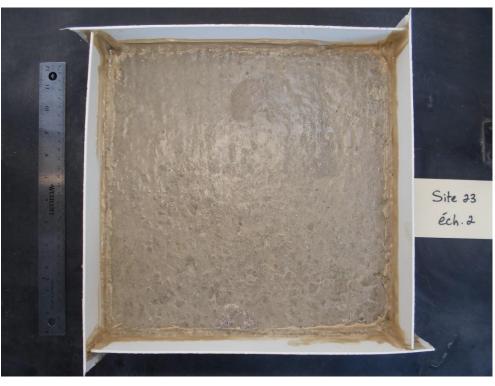
Source #23 Exposure class C-2



Sample: Source # 23 – Exposure class C-2

Number of cycles :





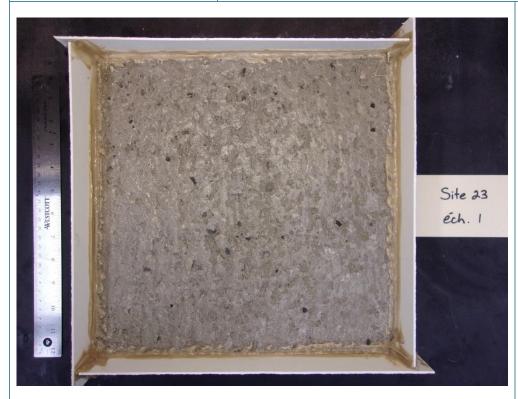
Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 23 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





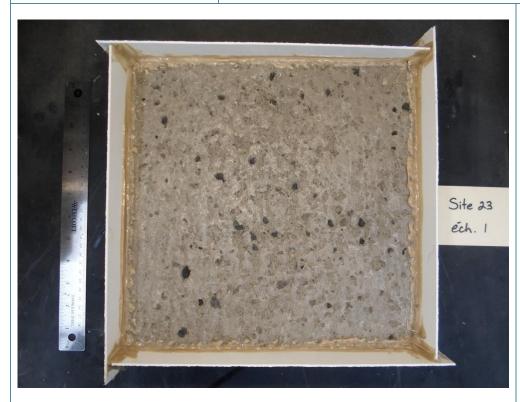
Mass loss after 7 cycles (kg/m²)	0.09	Mass loss after 7 cycles (kg/m²)	0.20
Cumulative mass loss (kg/m²)	0.09	Cumulative mass loss (kg/m²)	0.20
Comments :		Comments :	

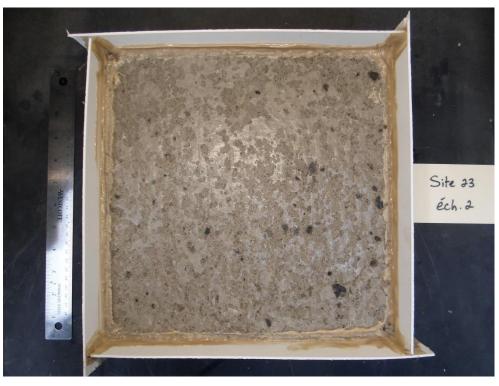
Performed by : Alexandre Lacroix, tech.



Sample: Source # 23 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





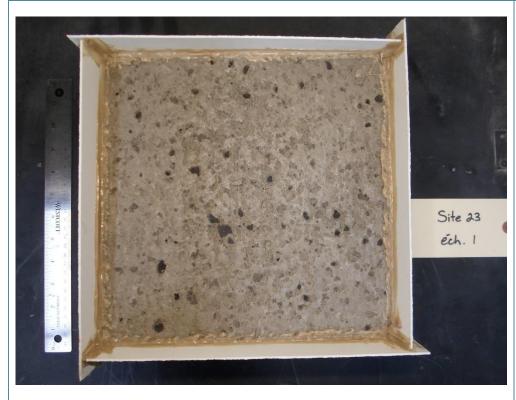
Mass loss after 21 cycles (kg/m²)	0.05	Mass loss after 21 cycles (kg/m²)	0.04
Cumulative mass loss (kg/m²)	0.14	Cumulative mass loss (kg/m²)	0.24
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 23 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





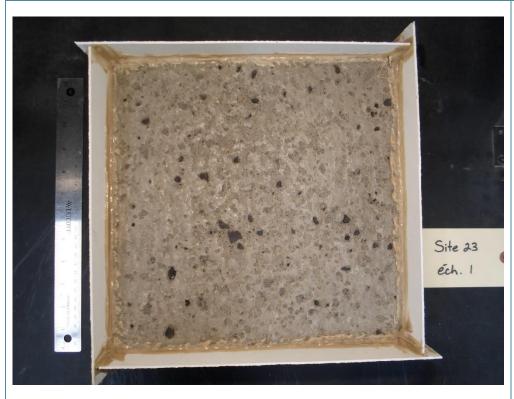
Mass loss after 35 cycles (kg/m²)	0.04	Mass loss after 35 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.18	Cumulative mass loss (kg/m²)	0.27
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 23 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.03	Mass loss after 56 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.21	Cumulative mass loss (kg/m²)	0.30
Comments: Index 3 - Combination of surface mortar scaling mainly with fragmented coarse		Comments : Index 3 - Combination of surface mortar scaling mainly with fragmented coarse	
aggregate		aggregate	

Performed by : Alexandre Lacroix, tech.

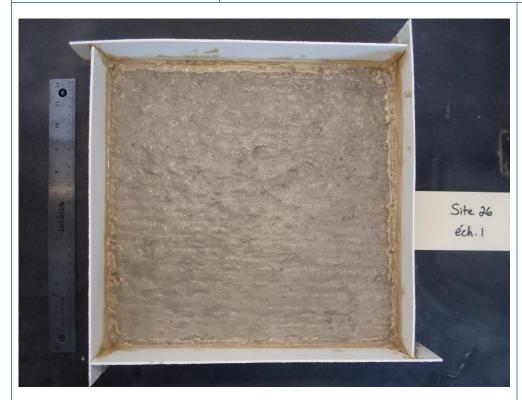


Source #26 Exposure class C-2



Sample: Source # 26 – Exposure class C-2

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 26 – Exposure class C-2

Number of cycles : After 7 freeze-thaw cycles





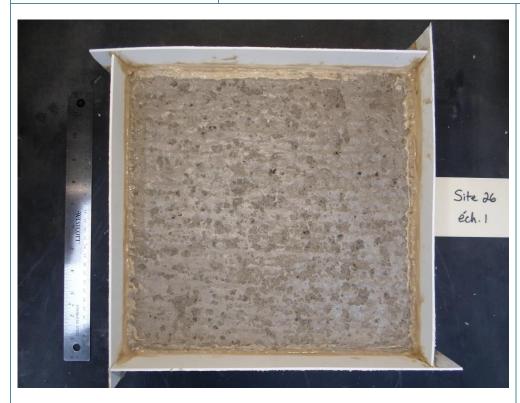
Mass loss after 7 cycles (kg/m²)	0.10	Mass loss after 7 cycles (kg/m²)	0.22
Cumulative mass loss (kg/m²)	0.10	Cumulative mass loss (kg/m²)	0.22
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 26 – Exposure class C-2

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.03	Mass loss after 21 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.13	Cumulative mass loss (kg/m²)	0.25
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 26 – Exposure class C-2

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.00	Mass loss after 35 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.13	Cumulative mass loss (kg/m²)	0.26
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 26 – Exposure class C-2

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.01	Mass loss after 56 cycles (kg/m²)	0.01	
Cumulative mass loss (kg/m²)	0.14	Cumulative mass loss (kg/m²)	0.27	
Comments: Index 1-B - Significant scaling of surface mortar with no popouts observed		Comments: Index 1-B - Significant scaling of surface mortar with no popouts observed		

Performed by : Alexandre Lacroix, tech.



Source #5 Exposure class F-1



Sample: Source # 5 – Exposure class F-1

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class F-1

Number of cycles : After 7 freeze-thaw cycles





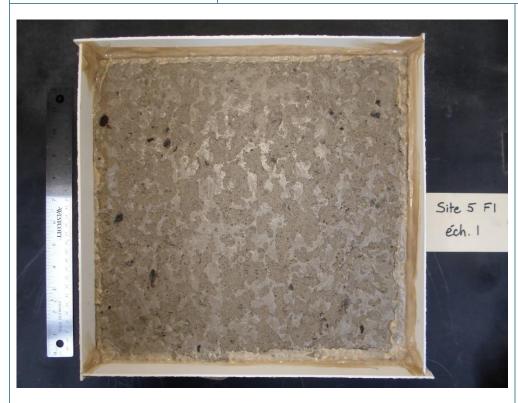
Mass loss after 7 cycles (kg/m²)	0.28	Mass loss after 7 cycles (kg/m²)	0.29
Cumulative mass loss (kg/m²)	0.28	Cumulative mass loss (kg/m²)	0.29
Comments :		Comments:	

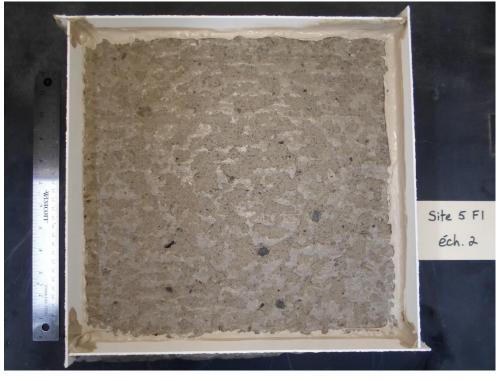
Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class F-1

Number of cycles : After 21 freeze-thaw cycles





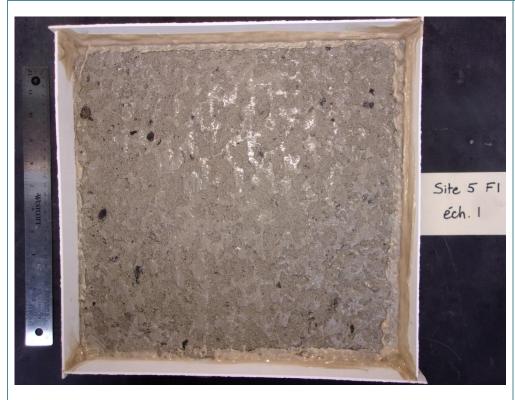
Mass loss after 21 cycles (kg/m²)	0.03	Mass loss after 21 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.31	Cumulative mass loss (kg/m²)	0.31
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class F-1

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.01	Mass loss after 35 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.32	Cumulative mass loss (kg/m²)	0.32
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 5 – Exposure class F-1

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.01	Mass loss after 56 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.33	Cumulative mass loss (kg/m²)	0.34
<u>Comments</u> : Index 4 - Combination of fragmented mortar	coarse aggregate mainly with scaling of surface	<u>Comments</u> : Index 4 - Combination of fragmented mortar	coarse aggregate mainly with scaling of surface
mortai		IIIOItai	

Performed by : Alexandre Lacroix, tech.



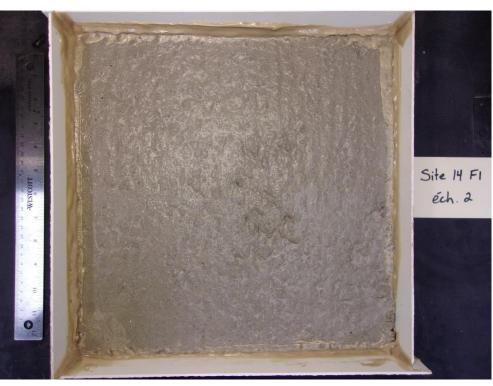
Source #14 Exposure class F-1



Sample: Source # 14 – Exposure class F-1

Number of cycles :





Comments:

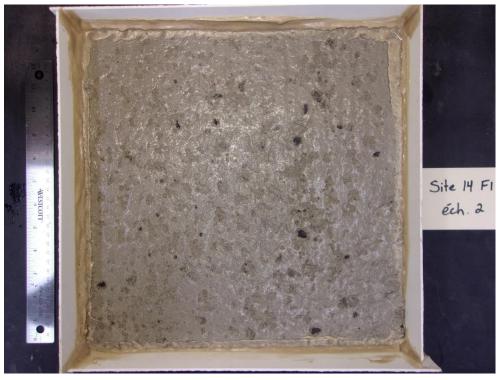
Performed by : Alexandre Lacroix, tech.



Sample: Source # 14 – Exposure class F-1

Number of cycles : After 7 freeze-thaw cycles





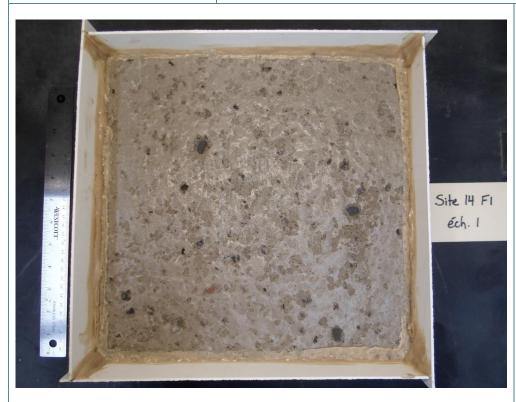
Mass loss after 7 cycles (kg/m²)	0.10	Mass loss after 7 cycles (kg/m²)	0.11
Cumulative mass loss (kg/m²)	0.10	Cumulative mass loss (kg/m²)	0.11
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 14 – Exposure class F-1

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.05	Mass loss after 21 cycles (kg/m²)	0.09
Cumulative mass loss (kg/m²)	0.15	Cumulative mass loss (kg/m²)	0.20
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 14 – Exposure class F-1

Number of cycles : After 35 freeze-thaw cycles





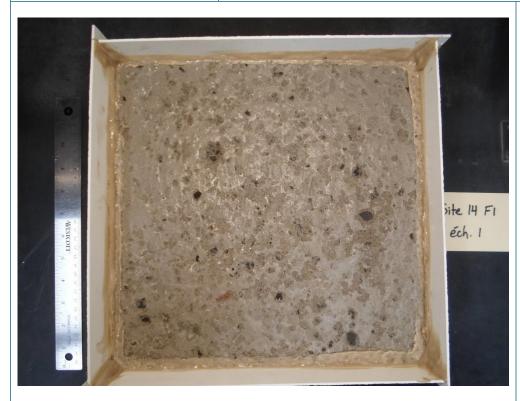
Mass loss after 35 cycles (kg/m²)	0.02	Mass loss after 35 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.17	Cumulative mass loss (kg/m²)	0.22
Comments:		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 14 – Exposure class F-1

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.03	Mass loss after 56 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.20	Cumulative mass loss (kg/m²)	0.23
<u>Comments</u> : Index 3 - Combination of surface mortar scaling mainly with fragmented coarse aggregate		<u>Comments</u> : Index 3 - Combination of surface mortar scaling mainly with fragmented coarse aggregate	

Performed by : Alexandre Lacroix, tech.

Date: 2016-11-03



Source #19 Exposure class F-1



Sample: Source # 19 – Exposure class F-1

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class F-1

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.24	Mass loss after 7 cycles (kg/m²)	0.18
Cumulative mass loss (kg/m²)	0.24	Cumulative mass loss (kg/m²)	0.18
Comments :		Comments:	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class F-1

Number of cycles : After 21 freeze-thaw cycles





Mass loss after 21 cycles (kg/m²)	0.03	Mass loss after 21 cycles (kg/m²)	0.03
Cumulative mass loss (kg/m²)	0.27	Cumulative mass loss (kg/m²)	0.21
Comments :		Comments :	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class F-1

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.02	Mass loss after 35 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.29	Cumulative mass loss (kg/m²)	0.23
Comments :		Comments :	

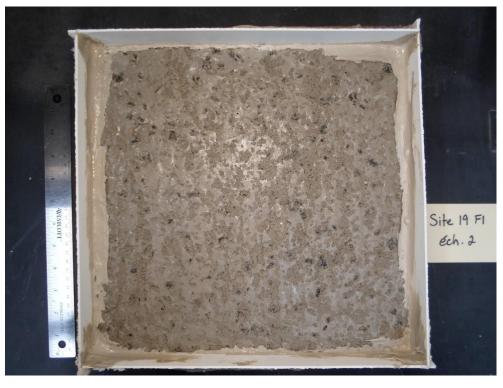
Performed by : Alexandre Lacroix, tech.



Sample: Source # 19 – Exposure class F-1

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.02	Mass loss after 56 cycles (kg/m²)	0.01
Cumulative mass loss (kg/m²)	0.31	Cumulative mass loss (kg/m²)	0.24
Comments: Index 1-B - Significant scaling of surface mortar with no popouts observed		<u>Comments</u> : Index 1-B - Significant scaling of surface mortar with no popouts observed	

Performed by : Alexandre Lacroix, tech.

Date: 2016-11-03



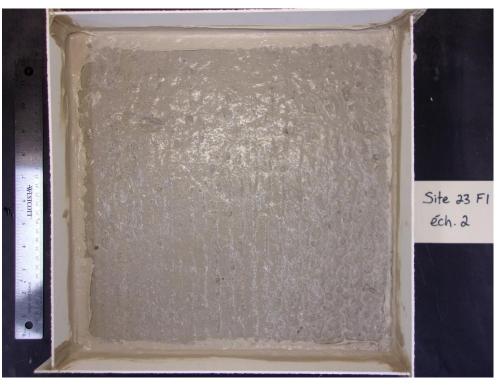
Source #23 Exposure class F-1



Sample: Source # 23 – Exposure class F-1

Number of cycles :





Comments:

Performed by : Alexandre Lacroix, tech.



Sample: Source # 23 – Exposure class F-1

Number of cycles : After 7 freeze-thaw cycles





Mass loss after 7 cycles (kg/m²)	0.11	Mass loss after 7 cycles (kg/m²)	0.12
Cumulative mass loss (kg/m²)	0.11	Cumulative mass loss (kg/m²)	0.12
Comments :		Comments:	

Performed by : Alexandre Lacroix, tech.



Sample: Source # 23 – Exposure class F-1

Number of cycles : After 21 freeze-thaw cycles





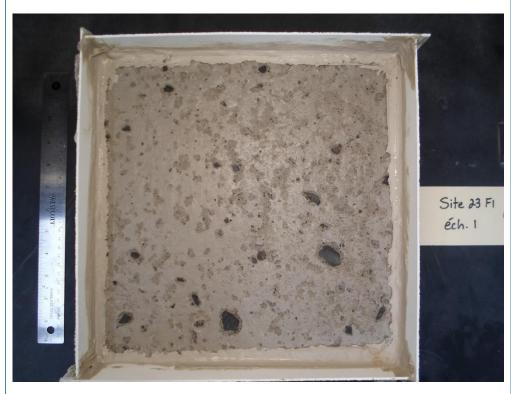
Mass loss after 21 cycles (kg/m²)	0.07	Mass loss after 21 cycles (kg/m²)	0.05
Cumulative mass loss (kg/m²)	0.18	Cumulative mass loss (kg/m²)	0.17
Comments :		Comments:	

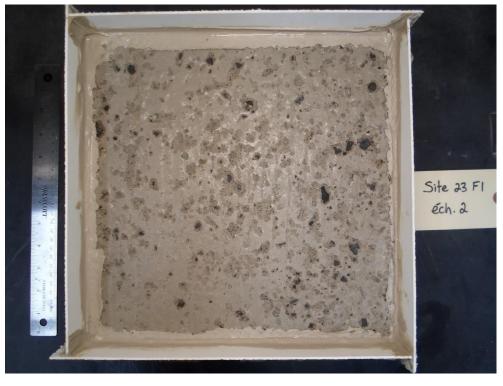
Performed by : Alexandre Lacroix, tech.



Sample: Source # 23 – Exposure class F-1

Number of cycles : After 35 freeze-thaw cycles





Mass loss after 35 cycles (kg/m²)	0.07	Mass loss after 35 cycles (kg/m²)	0.04
Cumulative mass loss (kg/m²)	0.25	Cumulative mass loss (kg/m²)	0.21
		Comments :	

Performed by : Ale

Alexandre Lacroix, tech.

Date:

2016-10-20



Sample: Source # 23 – Exposure class F-1

Number of cycles : After 56 freeze-thaw cycles





Mass loss after 56 cycles (kg/m²)	0.05	Mass loss after 56 cycles (kg/m²)	0.02
Cumulative mass loss (kg/m²)	0.30	Cumulative mass loss (kg/m²)	0.23
Comments: Index 3 - Combination of surface mortar scaling mainly with fragmented coarse		<u>Comments</u> : Index 3 - Combination of surface mortar scaling mainly with fragmented coarse	
aggregate		aggregate	

Performed by : Alexandre Lacroix, tech.

Date: 2016-11-10



