



ETL SEMKO

Test: **Impact Resistance**
 Proj. #: 3041212
 Date: October 20, 2004
 Client: Rocky Mountain Stoneworks
 Product: Manufactured concrete stone
 Test Method: CCMC Masterformat 07483
 Ambient conditions: Temperature: 18°C
 Test method used: Simulated section of wall 8' x 8'(2.44m x 2.44m) mounted vertically in test frame

Technician: Kevin Penner

Impactors suspended by 3.2 m length of rope between impactor and overhead hook to rest against test sample.

Impactor pulled back and up to drop height and released allowing impactor to swing in falling arc until it impacts the sample

After impact, sample inspected for any cracks, or other damage around impact point

Safety Impact Tests

Impact Load and Type	Drop Ht.	Impact energy	Comments/Observations
Large Soft 50 kg bag	8 ins (203 mm)	100 N.m	No cracks or other damage No penetration of system No dislodging of any part of system No falling debris No structural damage
Hard 1 kg steel ball	40 ins (1.016 m)	10 N.m	As above

Retention of Performance Tests

Impact Load and Type	Drop Ht.	Impact energy	Comments/Observations
Large Soft 50 kg bag	2.7 ins	34 N.m	No cracks or other damage No penetration of system No dislodging of any part of system No falling debris No structural damage
Small Soft 3kg bag	80 ins (2.032 m)	60 N.m	As above
Hard 1 kg steel ball	40 ins (1.016 m)	10 N.m	As above

Test: Impact Resistance
Date: 20-Sep-06 **Project No:** 3091486
Client: Rocky Mountain Stoneworks **Eng/Tech:** Adam Mantie
Product: Stone Cladding
Test Method: CCMC 07483 Cladding Systems using Adhered Manufactured Concrete Stone
Notes: Wind load test deck used after wind load testing
 Impactors suspended by 3.2 m length of rope between impactor and overhead hook to rest against test sample.
 Impactor pulled back and up to drop height and released allowing impactor to swing in falling arc until it impacts the sample.
 After impact, sample inspected for any cracks, or other damage around impact location.

Safety Impact Tests						
Impactor	Drop Height		Impact energy	Location	Observations	Results
	(in.)	(cm)	(Nm)			(Pass/Fail)
Large Soft 50 kg bag	8	20	100	A	No penetration, dislodging, falling debris or structural damage	Pass
				B	No penetration, dislodging, falling debris or structural damage	Pass
				C	No penetration, dislodging, falling debris or structural damage	Pass
				D	No penetration, dislodging, falling debris or structural damage	Pass
Retention of Performance Tests						
Impactor	Drop Height		Impact energy	Location	Observations	
	(in.)	(cm)	(Nm)			
Large Soft 50 kg bag	2.7	6.9	34	A	No loss of functional or appearance characteristics	Pass
				B	No loss of functional or appearance characteristics	Pass
				C	No loss of functional or appearance characteristics	Pass
				D	No loss of functional or appearance characteristics	Pass
Small Soft 3kg bag	80	203	60	A	No loss of functional or appearance characteristics	Pass
				B	No loss of functional or appearance characteristics	Pass
				C	No loss of functional or appearance characteristics	Pass
				D	No loss of functional or appearance characteristics	Pass

Test: **Impact Resistance**

Date: 20-Sep-06

Client: Rocky Mountain Stoneworks

Product: Stone Cladding

Test Method CCMC 07483 Cladding Systems using Adhered Manufactured Concrete Stone

Notes: Wind load test deck used after wind load testing

Impactors suspended by 3.2 m length of rope between impactor and overhead hook to rest against test sample.

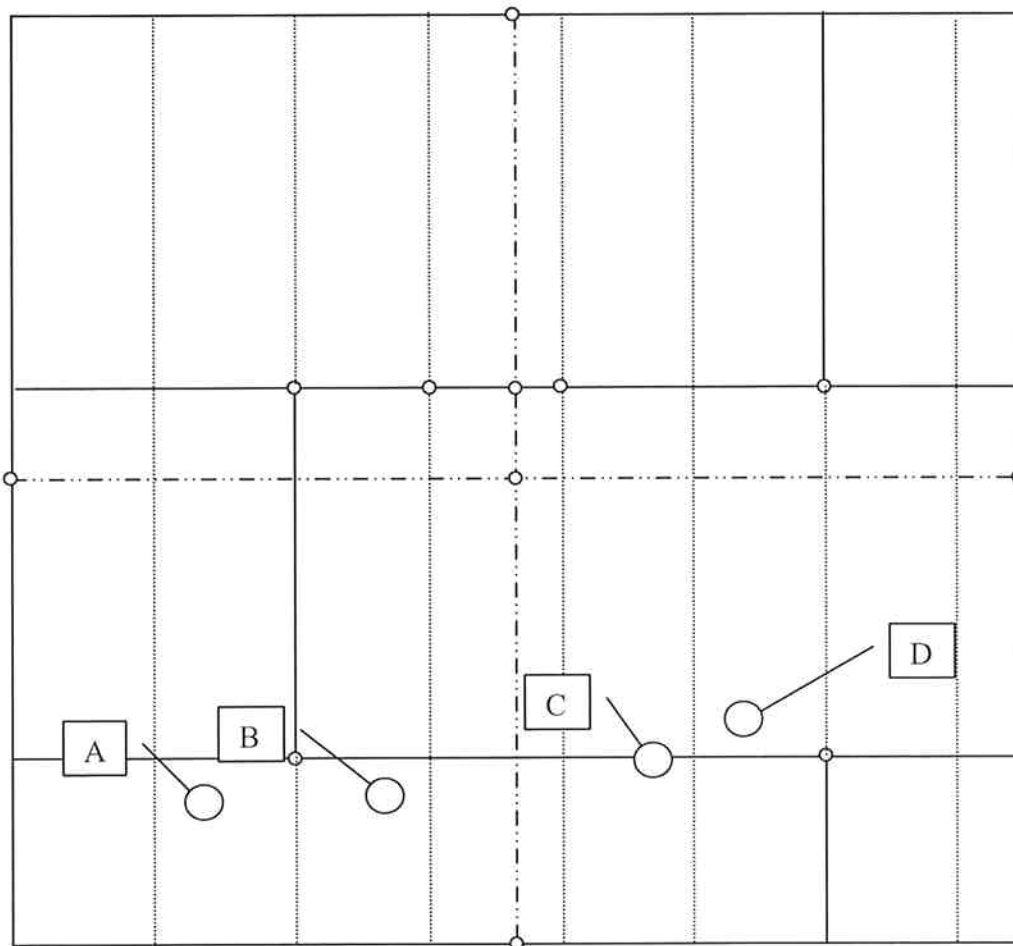
Impactor pulled back and up to drop height and released allowing impactor to swing in falling arc until it impacts the sample.

After impact, sample inspected for any cracks, or other damage around impact location.

Project No: 3091486

Eng/Tech: Adam Mantei

Impact Locations



..... = Stud Location

- - - - - = Centre Lines