



RESEARCH & TECHNOLOGY PROGRAM

Ray McGowan

National Fenestration
Rating Council

RESEARCH PROGRAM

Research Financial Summary

11/3/2010

Description	Actual Project Costs	Project Costs w/indirect costs	Balance through 2014
2010 to 2014 appropriation			\$900,000
active projects, paid amounts	\$ 19,967	\$ 35,940	
active projects, unpaid amounts	\$ 60,727	\$ 91,091	
completed and active total	\$ 80,694	\$ 127,031	
current balance (including indirect adjustment)			\$772,970
Potential Future Projects			
All Fall 10 Summary pages	\$ 1,005,000	\$ 1,507,500	
All Fall 10 RFPs	\$ 300,000	\$ 450,000	
total	\$ 1,305,000	\$ 1,957,500	
projected balance (including indirect adjustment)			(\$1,184,531)

NEW THERMOPHYSICAL PROPERTY SUBMISSIONS

- Approvals since July 10
 - 12 new materials
- New NFRC 101 E2A11 just released

NFRC
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THERMOPHYSICAL PROPERTY INTERLABORATORY COMPARISON

- Full report complete
 - Reviewed by thermophysical property TG
 - All measurements within $\pm 10\%$ as required
 - NFRC 103 complaint labs and full interlaboratory report posted here:
 - <http://www.nfrc.org/thermophysical.aspx>
 - Four commercial labs listed
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THERMOPHYSICAL PROPERTY ILC

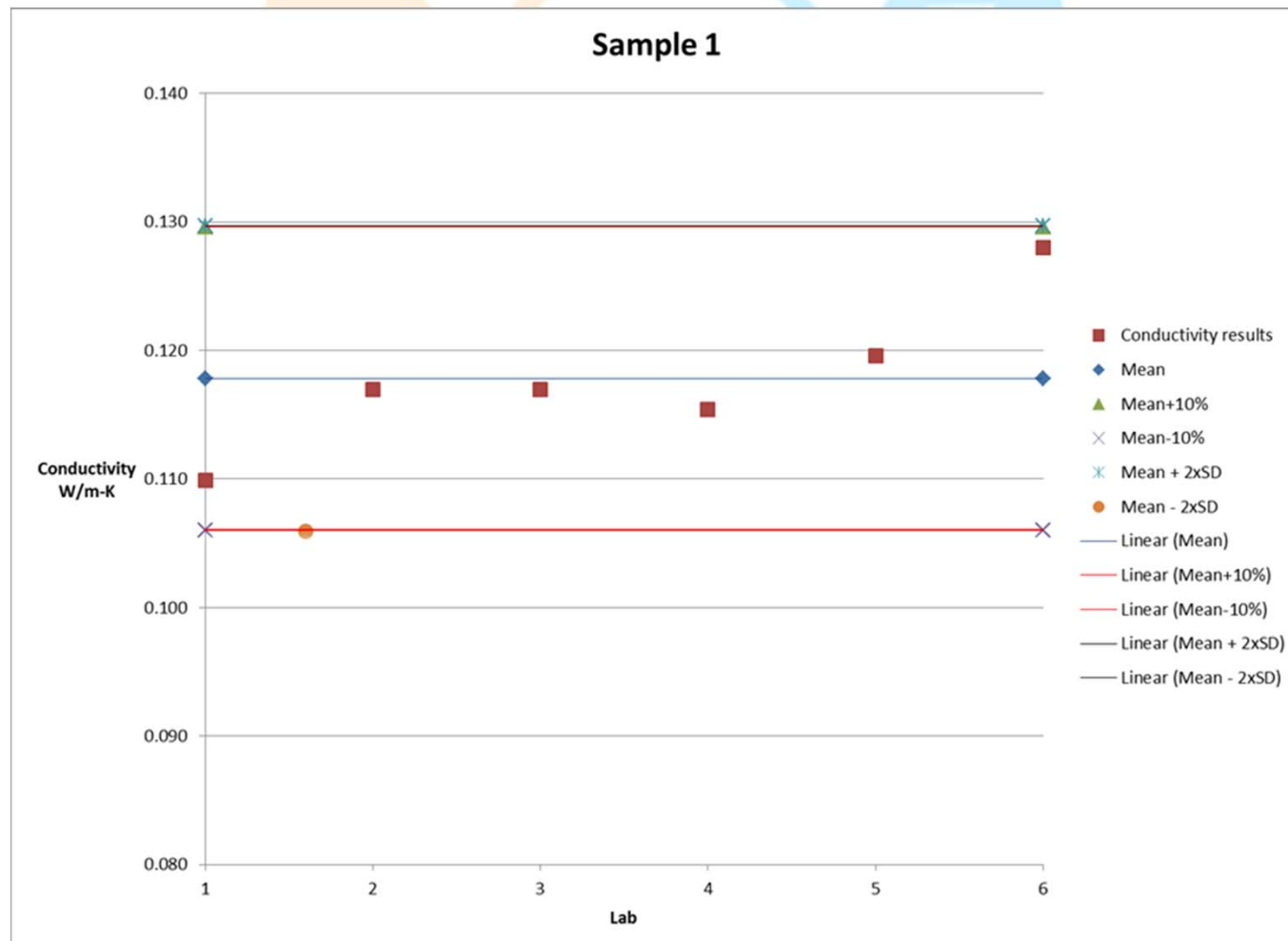
SUMMARY

sample	Description	Results (W/m-K)							10% of mean	Standard Deviation
		lab 1	lab 2	lab 3	lab 4	lab 5	lab 6	Mean		
1	3/4"	0.110	0.117	0.117	0.115	0.120	0.128	0.118	0.0118	0.0059
2	three 3/4"	0.114	0.119	0.124	0.124	0.126	0.123	0.122	0.0122	0.0044
3	three 1/2"	0.098	0.103	0.106	0.103	0.108	0.110	0.105	0.0105	0.0044
4	three 3/4" w/paste	0.117	0.121	0.123	0.122	0.126	0.128	0.123	0.0123	0.0037

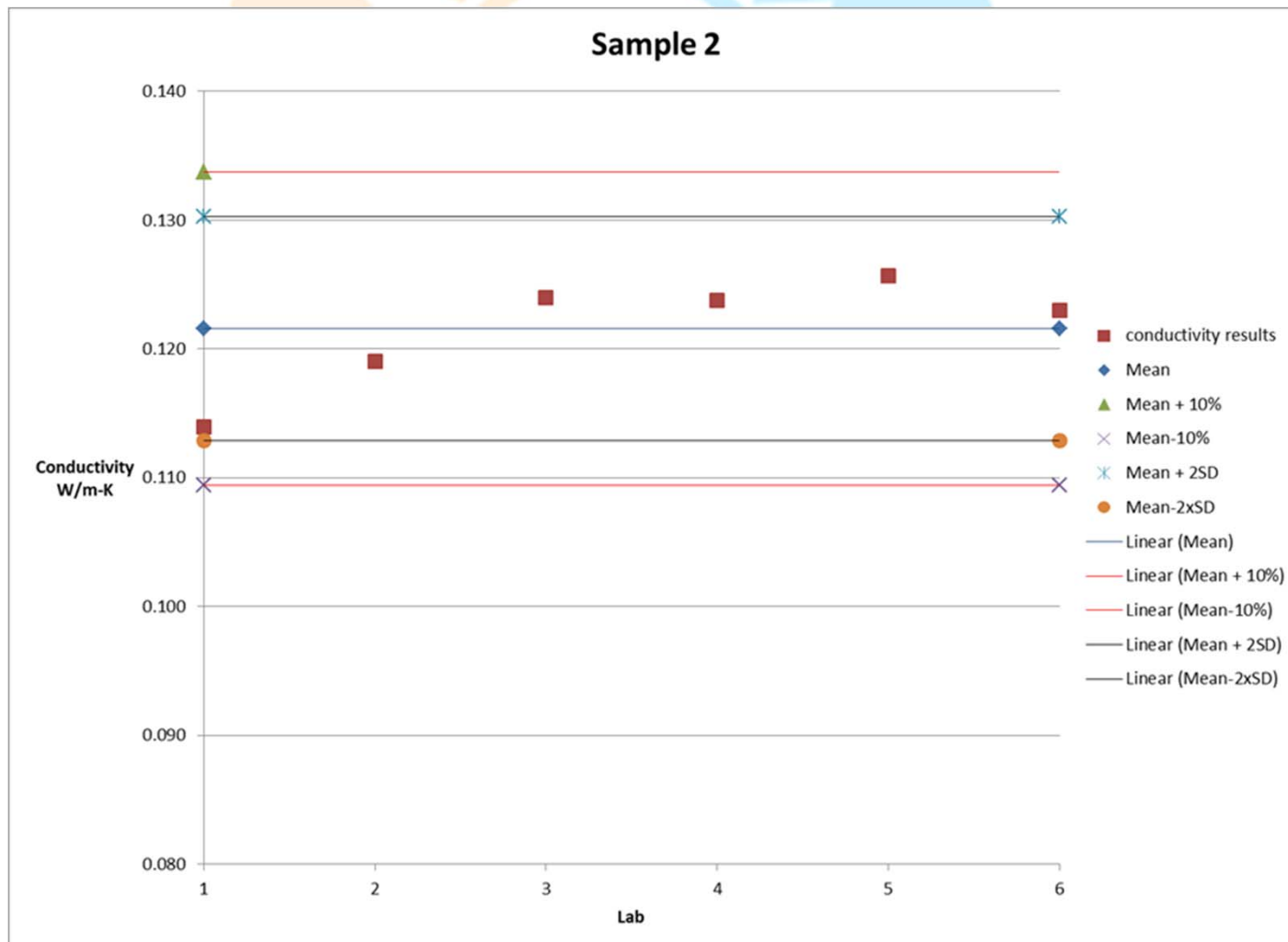
Sample: composite board

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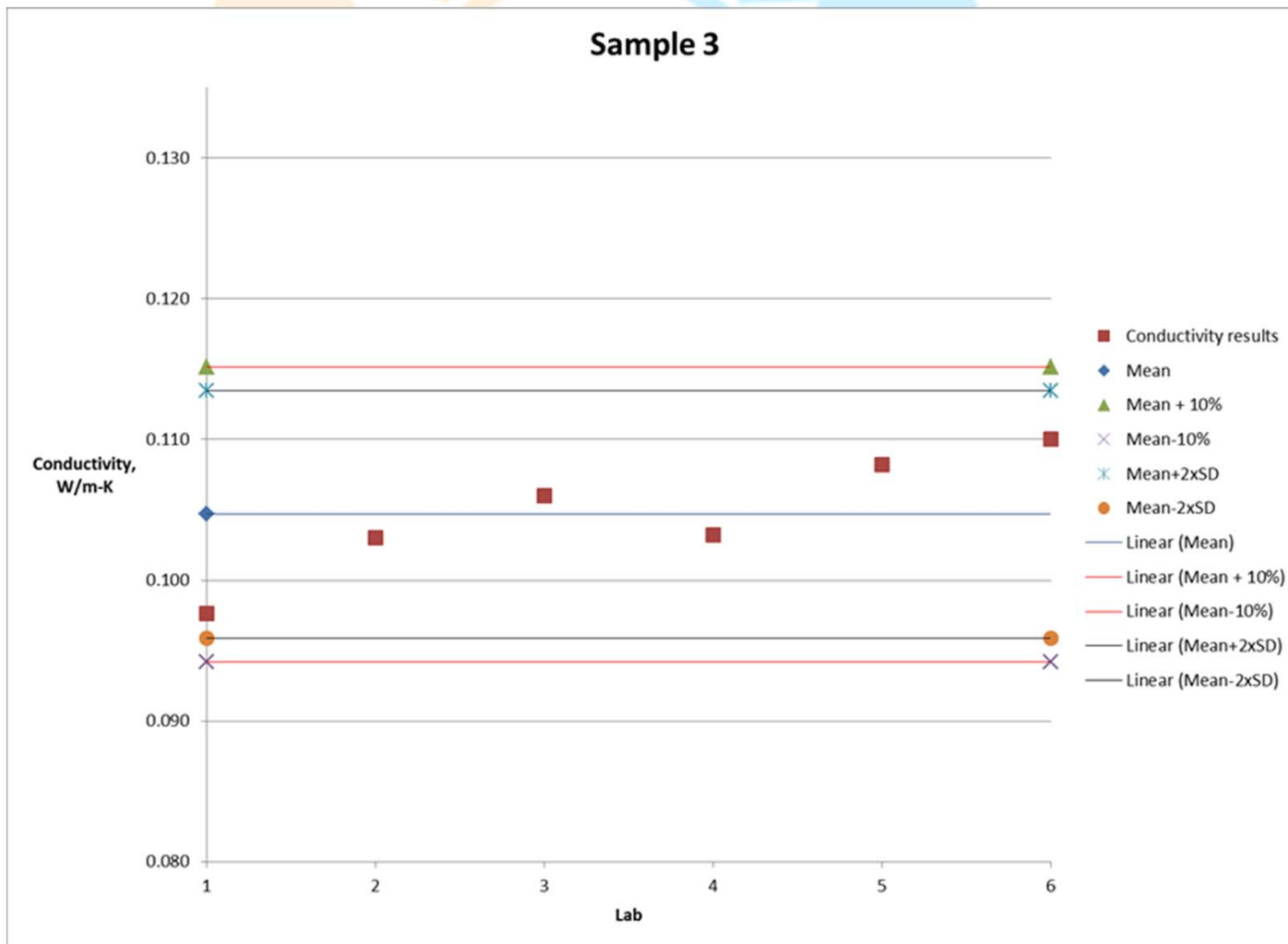
THERMOPHYSICAL PROPERTY ILC RESULT SUMMARY



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