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October 1, 2013

Alpha Tool & Die
65 Martin Ross Ave.
Suite #14
Toronto, Ontario
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Re: Fall Restraint Device for Pitched Roof Use

To Whom It May Concern:

This is to confirm that the fall restraint device manufactured by Alpha Tool & Die meets the requirements of the Occupational Health and Safety Act and Regulations for Construction Projects Ontario Regulation 213/91.

The device consists of a "J-hook" that hooks under a timber rafter or top chord member of a timber truss through a hole drilled in the roof sheathing beside the rafter or top chord member. After installation of the "J-hook" and upper plate, flashing is installed over the roof penetration and a rotating lug is bolted to the "J-hook" to allow a worker to connect their body harness lanyard to the anchor. To confirm engineering design, the device was installed in a sample roof construction and load tested with a static load of 8.67 kilonewtons (1,950 pounds).

In conclusion, the fall restraint device meets the requirements of the Occupational Health and Safety Act and Regulations for Construction Projects Ontario Regulation 213/91.

Yours very truly,
MuirTec Inc.



R.J.G. (Bob) Muir, P. Eng.
Consulting Engineer



Attachments: Installation photos (4)





Photo 1:
“J-hook” installed under roof rafter (or
truss chord) through hole drilled in
sheathing.



Photo 2:
“J-hook” after load test.



Photo 3:
Top of roof showing upper plate with flashing ready to install by sliding upper edge of flashing under shingle tabs above the hole drilled for the "J-hook".



Photo 4:
Final assembly showing flashing installed and swivel lug attached ready to attach body harness lanyard.