

H&H Construction (Scotland) Ltd

Vibration Risk Assessment / Exposure Calculator

Date of Assessment:	6th January 2026	Location:	Externally, on site
Process:	Nail gun, used for first fix.		
Equipment Used:	DeWalt DCN 930 Framing Nailer		
Persons at Risk:	Operatives		
Potential Risks:	Vibration related diseases (White Finger), Noise Induced Hearing Loss		

Manufacturers Supplied Figures for Magnitude of Vibration:	4.8 m/s ²	3.3m/s ² plus 1.5m/s ² uncertainty	"Trigger Time" during a normal 8hr Working Day:	60 minutes
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Time to reach EAV	130 minutes	Time to reach ELV	521 minutes
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	Vibration magnitude m/s ² r.m.s.	Exposure points per hour	Time to reach EAV 2.5 m/s ² A (8)		Time to reach ELV 5 m/s ² A (8)		Exposure duration		Partial exposure m/s ² A (8)	Partial exposure points
			hours	minutes	hours	minutes	hours	minutes		
Tool or process 1	4.8	46	2	10	8	41	1	0	1.7	46
Tool or process 2										
Tool or process 3										
Tool or process 4										
Tool or process 5										
Tool or process 6										

Daily exposure m/s ² A (8)	Total exposure points
1.7	46

RESULTS:

The table above shows that when the machine is used for 60 minutes during a working day (8hr) the Exposure Limit Value of 5m/s² is not exceeded.

Control Measures to be Employed:

1. Anti-vibration handles fitted to appliances.
2. Supervisors to monitor to ensure 60 minute maximum is not exceeded.
3. Operatives to be informed of the result of this assessment.
4. Assessment to be reviewed annually or in light of any major changes to the equipment or process.

Manufacturers Supplied Figures for Noise:

87

dB(A)

Control Measures for Noise

If Noise levels exceed the Lower Exposure Action Value, 80 dB, hearing protection should be supplied to operatives should they wish to wear it.
 If Noise levels exceed the Upper Exposure Action Value, 85 dB, hearing protection should be supplied to operatives and it's use will be mandatory.
 Noise exposure levels must not exceed 87dB (taking hearing protection into account).
 Hearing protection (SNR25) must be used to reduce noise level below 80dB(A), taking into account, a derating factor of 4dB(A).

PPE Requirements

								
☒ Req'd	☒ Req'd	☒ Req'd	☒ Req'd	☒ Req'd	☐ Req'd	☐ Req'd	☐ Req'd	
Safety Glasses To EN166 / EN170	Hearing Protection SNR - 35 to EN352	Hand Protection To EN388	Foot Protection EN ISO 20345	Dust Mask FFP3 EN149				