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Physical Demands Analysis

Drywaller

Prepared for:
Alberta Construction Association

Job Title:	Drywaller	Assessment Location:	Grande Prairie, AB	Data Collection Date:	December 7, 2020
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Completed By:	Christina O'Connor, B. Sc. Kin	Submitted on:	July 29, 2021
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Disclaimer:	The physical demands noted in this report may vary depending on company and location. Please contact the company directly to confirm this Physical Demands Analysis is an accurate representation of the specific job title for this specific location.
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Work Schedule:	Shift Duration: 4 days/week, 10 hours/day; may vary Break Schedule: Total of 1 hour break per day/ extra ½ hour past 5:30pm Shift Rotation: This would be job-dependent; however, if working on commercial jobs, workers may be required to work at night to avoid working during business operation hours. On call is required: No. Overtime required: Yes, this would be job dependent.
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Education / Experience:	Education required: 3 year apprenticeship program in Interior Systems Mechanic. Hours required for position: 1,560 hours per year for 3 years. Tickets that may be required (not limited to): Fall protection, H2S Alive, Wildlife awareness, Ground Disturbance, Elevated Work Platform (EWP) machinery use, Confined Space, First Aid, WHMIS, Construction Safety Training Systems (CSTS) and Basic Safety Orientation (BSO).
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Labour Provider:	N/A
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Job Overview:	As a drywaller the worker is responsible for measuring, cutting, fitting, and securing drywall to the wall's framework. They are responsible for reading blueprints and designs to ensure the building is built to plan. They may be required to prepare drywall sheets by sawing, drilling, or cutting holes to allow for outlets, cables, duct work, etc. to be fed through the wall. A worker would be responsible for trimming any rough edges and ensuring there is a tight fit.		
	% of shift	Job Task	Task Description
	5%	Clean Up / Job Prep	A worker would be required to prepare their job site by gathering all tools and equipment necessary to complete the tasks at hand, gathering all materials, ensuring proper PPE, and setting up any temporary containments. A worker would be required to clean up throughout their day to reduce any materials or equipment that could impact a worker's ability to complete a job. A worker

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			would be responsible for cleaning up their tools and materials to ensure there are no safety hazards throughout their day.
	2%	Paperwork	A worker would be required to fill out their Field Level Hazard Assessment (FLHA), COVID screening paperwork, toolbox talks, and equipment inspection forms. A worker would be required to fill out multiple toolbox talks and field level hazard assessments if a job changes throughout the day.
	93%	Drywalling	Worker is required to measure, cut, and secure drywall to steel or wood framing. They are required to read blueprints to ensure that proper thickness and length of drywall are utilized according to building plans. A drywaller is responsible for ensuring there is a tight fit, materials are level, and secure.

Equipment/ Tools:	<ul style="list-style-type: none"> • Ladders (45 lbs) • Scaffolding (Deck: 46 lbs, railings: 42 lbs) • Lights (wobble lights, trouble lights, handheld, and headlamps) • Drills • Utility knife • Power router • Tape measure • Screws • Vacuum • Broom • Work bench (13 lbs) • Drywall (90 lbs, 12 feet) • Tool belt (15 lbs)
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Exposures / Environment:	<p>Work can be inside or outside depending on the jobs required. A worker could be exposed to the following:</p> <ul style="list-style-type: none"> • Noise • Rough Terrain • Tripping Hazards • Moving Equipment • Heights • Vibrations • Hot/Cold Temperatures • Dust
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Personal Protective Equipment Required:	<ul style="list-style-type: none"> • Hard hat • Steel toed boots • Gloves • Foam safety eyewear (fectoggle) • Safety vest or high visibility stripes • Long sleeves and pants • Hearing protection
Personal Protective Equipment as Required:	<ul style="list-style-type: none"> • Hearing protection

NOC STRENGTH LEVEL KEY	
Strength Level	Definition
Limited (Lim)	Up to 5 kg (11 pounds)
Light (L)	5 kg to 10 kg (11 – 22 pounds)
Medium (M)	10 kg to 20 kg (22 – 44 pounds)
Heavy (H)	Greater than 20 kg (44 pounds plus)

**Strength Level Key based on the National Occupational Classification*

FREQUENCY KEY		
Frequency	% of Workday	Hours – Based on 8 hour Workday
Not Required (N/R)	0%	0
Rarely (R)	1 – 5%	<25 min/day
Occasionally (O)	6 – 33%	25 min to 2 hours 40 min/day
Frequently (F)	34 – 66%	2 hours 41 min to 5 hours 17 min/day
Constantly (C)	67 – 100%	5 hours 18 min to 8 hours/day

**Frequency Key based on WCB Alberta Recommendations*

Job Demand	Frequency / NOC Strength Level					Details/ Measurements
	N/R	R	O	F	C	
Material Handling:						
Floor to waist level lifting			H			Could be required to lift the following from ground level: <ul style="list-style-type: none">• A variety of tools and equipment such as saws, drills (<5 lbs), knives (1lbs), etc.• Drywall (90 lbs)• Scaffolding deck (46 lbs)• Scaffolding railing (42 lbs)• Hand tools (5 lbs)
Knee to waist level lifting			H			Could be required to lift the following from knee level: <ul style="list-style-type: none">• Drywall• Ladder (45 lbs)• Scaffolding deck.• Work bench

Waist to waist level lifting			H	L	<p>Could be required to lift the following at waist level:</p> <ul style="list-style-type: none"> • A variety of tools and equipment such as saws, drills, knives, screws, etc. • Drywall. • Tool belt (15 lbs) • Ladder • Scaffolding deck • Work bench
Waist to chest level lifting			H		<p>Could be required to lift the following at chest level:</p> <ul style="list-style-type: none"> • A variety of tools and equipment such as drills, knives, screws, etc. • Drywall
Waist to shoulder level lifting			H		<p>Could be required to lift the following at shoulder level:</p> <ul style="list-style-type: none"> • A variety of tools and equipment such as drills, knives, screws, etc. • Drywall
Waist to overhead level lifting		H			<p>Could be required to lift the following at overhead level:</p> <ul style="list-style-type: none"> • A variety of tools and equipment such as drills, knives, screws, etc. • Drywall
Front carry			H		<p>Required when carrying the following:</p> <ul style="list-style-type: none"> • Drywall • Ladders • Scaffolding deck • Scaffolding railing <p>Please note that a worker may have access to a trolley to assist with moving drywall.</p>
Right / left-handed carry (dominant hand)		H		Lim	<p>Required when carrying the following:</p> <ul style="list-style-type: none"> • A variety of tools and equipment such as saws, drills, knives, screws, etc. • Ladder • Scaffolding deck • Scaffolding railings <p>Please note that a worker may have access to a trolley to assist with moving drywall.</p>
Shoulder carry	X				N/A

Static Pushing/Pulling (Force)			M	Lim		Required when pushing or pulling the following: <ul style="list-style-type: none"> Holding drywall in place Securing drywall Cutting drywall
Dynamic Pushing/Pulling (Force)		H				Required when pushing or pulling the following: <ul style="list-style-type: none"> Moving scaffolding A trolley full of drywall Site clean up

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Upper Extremity Work:						
Hand Gripping				X		Required when cutting drywall, measuring drywall, moving drywall, securing drywall, site clean up, site prep, etc.
Pinch Gripping				X		Required when handling screws, when using a drill, when using a saw, when picking up scraps, when cutting drywall, completing paperwork, etc.
Upper Extremity Coordination					X	Required when cutting drywall, measuring drywall, moving drywall, securing drywall, site clean up, site prep, etc.
Reaching Forward				X		A worker would be required reach forward when measuring drywall, cutting drywall, site prep, site clean up, securing drywall, etc.
Overhead Shoulder Level Reaching				X		A worker would be required to work above shoulder level when securing drywall to upper portions of walls or ceilings.
Below Shoulder Level Reaching				X		A worker would be required to work below shoulder when measuring drywall, cutting drywall, site prep, site clean up, securing drywall, etc.
Throwing		X				Required when throwing garbage into the dumpster.

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Positional Work:						
Trunk Flexion (Bending)				X		Required throughout the day when grabbing materials, cutting materials, site clean up, site prep, securing drywall to the wall, etc.

Trunk Rotation (Twisting)			X			Required throughout the day when grabbing materials, cutting materials, site clean up, site prep, securing drywall to the wall, etc.
Kneeling			X			Required when drywalling lower-level portion of walls, site clean up, site prep, measuring and cutting drywall, etc.
Crawling		X				Required when installing drywall in crawl spaces.
Crouching			X			Required when drywalling lower-level portion of walls, site clean up, site prep, measuring and cutting drywall, etc.
Squatting				X		Required when manual handling materials at lower levels, site clean up, site prep, tool handling, etc.
Neck Flexion				X		Required throughout the day when cleaning up, preparing site, grabbing the materials, cutting materials, securing materials, working on lower level portions of walls, etc.
Neck Extension				X		Required when measuring, securing, and levelling drywall to upper portions of walls or ceilings.
Neck Rotation			X			Required throughout the day as a safe work practice, when measuring, when cutting drywall, when installing drywall, etc.

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Static Work:						
Sitting			X			Required on breaks, when completing paperwork, and driving site to site.
Static Standing				X		Required when securing drywall to the wall, measuring drywall, cutting drywall, etc.
Balancing			X			Required when climbing scaffolding or ladders and working at heights.

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Ambulation:						
Walking: Level Surfaces				X		Required when walking on even ground in residential or commercial buildings. This would be job dependent.
Walking: Uneven Surfaces				X		Required when walking on uneven ground in residential or commercial buildings. This would be job dependent.
Walking: Slopes		X				This would be job dependent.

Jumping	X					N/A
Running	X					N/A

Job Demand	Frequency					Details/Measurements
	N/R	R	O	F	C	
Climbing:						
Stairs		X				Stair climbing would be site dependent.
Ladder			X			Ladder climbing would be required when fixing drywall to walls at waist level or higher. This would be job dependent as scaffolding may be utilized instead.
Other – Scaffolding			X			A worker would be required to climb scaffolding to complete installation of drywall at levels above waist. This would be job dependent as ladders may be used instead.

PHOTOS OF TASKS AND WORK ENVIRONMENT

Figure 1: A worker taking sheets of drywall off a trolley to measure, cut, and secure to the steel framing.



Figure 2: A worker ensuring a 12-foot sheet of drywall is level prior to securing it to the steel framing.



Figure 3: A worker securing the bottom part of a sheet of drywall to the steel framing.



Figure 4: A worker utilizing a step stool to secure drywall above shoulder level.



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If you have any questions, and/or would like to discuss this assessment and report further, I can be reached at (780) 532-7077.

Sincerely,

A handwritten signature in black ink, appearing to read "C.O'Connor".

Christina O'Connor, B. Sc. Kin

Validation Agreement

Job Title:	Drywaller
Data Collection Date:	December 7, 2020

We the undersigned have reviewed the Physical Demands Analysis for this position and agree that the physical demands documented in this report are representative of the true demands of the tasks associated with the job title as assessed on the date listed above.

Completed by:	Christina O'Connor, B. ScKin	Lifemark Clinician Name and Designation
Approved by:		Management Representative
Approved by:		Worker Representative
Approved by:		Labour Provider Representative