

### **JOB DESCRIPTION**

TASK#	TASK DESCRIPTION	% OF SHIFT
1	Load materials, drive to the site and unload.	5%
2	Set up ladders, install fall protection anchors and/or safety railings, and transfer materials and equipment to roof using ropes, hoist, elevating work platform, etc.	10%
3	Demolition Phase – remove pre-existing membrane, coverboard, insulation, vapour barrier and Q decking by cutting material into cubes and disposing down the chute. Uses chain saws, utility knives, shovels, spaces, roof cutters.	20%
4	Lay Q decking, drywall/DensDeck and vapour barrier using screws and plates. Roll on adhesive. Repeat for vapour barrier.	20%
5	Install insulation using a two-part adhesive dispenser.	15%
6	Finish with adhesive membrane and use torch gun to adhere one piece to another.	20%
7	Clean site of excess Q decking, DensDeck, insulation, membrane, and garbage. Remove ladders, fall equipment, etc.	5%
8	Drive back to the shop and unload as required.	5%

The physical demands may vary depending on the company and location.

Confirm that this physical demands analysis is an accurate representation of the specific job.

### **ITEMS HANDLED**

- Chain saws (12 lb.)
- Utility knives (0.5 lb.)
- Shovels (6 lb.)
- Spades (6 lb.)
- · Roof cutter
- Hoist

- Power pack blower (22 lb.)
- Drill (2 lb.)
- Tape measure
- Propane tanks
- Dolly
- Torch gun

- Two-part adhesive dispenser (15 lb.)
- Ladders (up to 36 ft. 70 lb.)
- Fall arrest equipment (23 lb.)
- Safety railings
- Pylons (12 lb.)

### **MATERIALS**

- Insulation
- Adhesive Membrane (100 lb.)
- Drywall/DensDeck (57/66 lb.)
- Vapour barrier rolls (80 lb.)
- Q decking

#### PERSONAL PROTECTIVE EQUIPMENT

- Fall protection equipment
- Long sleeves and pants
- Work Boots
- Gloves

### **ENVIRONMENTAL EXPOSURE**

Works on rooftops. Exposed to heat, wind, storms, rain, dust (during demolition), and adhesive fumes.

2

## PHYSICAL DEMANDS ANALYSIS (EXAMPLE) **ROOFER | ADHESIVE MEMBRANE**



JOB TITLE **LENGTH OF SHIFT (HRS) ROOFER - ADHESIVE MEMBRANE** 

JOB DESCRIPTION									
The Worker is required to complete demolition of the pre-existing roof, lay the Q decking (if not previously installed),									
drywall/DensDeck and vapour barrier, secure the insulation with adhesive, and lastly, install the roof membrane.									
PHYSICAL JOB DEMANDS - Grade using a scale of 0 - 4									
0 = NOT REQUIRED	1	= SEL	.DON	I REQ	UIRE	D: < 5%	2 = MINOR REQUIREMENT: 5-33%		
-	Le	ss tha		minu ot da	•	er day or	30 minutes up to 3.5 hours per day or 1 repetition every 30 minutes		
3 = OCCASIONAL REQUIREMENT: 34-66% 4 = FREQUENT REQUIREMENT: 67-100%									
3.5 hours up to 6.5 hours per day or 1 repetition every 2 minutes 6.5 hours per day up to shift length or 1 repetition every 30 seconds									
<b>INSTRUCTIONS:</b> Place an X under number 0,1,2,3 or 4 to identify the frequency of each body demand or exposure.									
PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCR	IBE THE TASK(S) PERFORMED		
WHOLE BODY DEMANDS									
SITTING			X			Driving to an	d from site.		
SITTING WITH VIBRATION/JARRING	X					-			
DRIVING			X			Driving to an	d from site.		
STANDING				X	While on roof, during demolition and installation, walking on site.				
RUNNING	X				-				
WALKING									
LEVEL				X		Roof			
UNEVEN GROUND			X		Exterior of site.				
SLOPES / RAMPS	Х					-			
CLIMBING		,							
REGULAR STAIRS		X				To access the			
		X				To access roo scaffolding.	f using elevating work platform, scissor lift or		
STEEP STAIRS						_			
STEEP STAIRS  LADDERS			х			To access roo the site.	f or access scissor lift. Frequency depending on		

**KNEELING** 

During installation of the membrane on the parapet, fall arrest X **SQUATTING** equipment and safety railings, demolition, preparation, and installation of roofing membranes, and during site clean up. During the installation of the vapour barrier and drywall/ **CRAWLING** X DensDeck (securing to Q decking).

X



PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED		
SPECIFIC BODY DEMANDS								
NECK MOVEMENTS								
BENDING	BENDING							
SUSTAINED					x	Loading/unloading materials and equipment, during installation of fall arrest equipment and safety railings, demolition of previous roof, installation of Q decking (as necessary), drywall/DensDeck, vapour barrier, insulation and adhesive membrane, operating roof cutter, two-part adhesive dispenser, power pack blower, torch gun.		
						Looking up to use manual (rope) or mechanical (hoist/crane) method to load/unload materials and equipment on the roof (ground position), reviewing the site from ground level, loading/unloading materials and equipment onto/from the truck.		
REPETITIVE	X					-		
TWISTING								
SUSTAINED	X					-		
REPETITIVE			x			While loading/unloading materials and equipment, during installation of fall arrest equipment and safety railings, demolition of previous roof, installation of Q decking (as necessary), drywall/DensDeck, vapour barrier, insulation and adhesive membrane, operating roof cutter, two-part adhesive dispenser, torch gun, power pack blower.		
TRUNK MOVEMENTS								
BENDING								
SUSTAINED	X					-		
REPETITIVE				X		During installation of fall arrest equipment and safety railings, guiding hoist, demolition, preparation and installation of roofing materials/membranes, during site clean up.		
SHOULDER MOVEMENTS								
OVERHEAD		X				Assisting/controlling materials and equipment while using manual (rope) ormechanical method for transfer onto/off the roof, setting up/securing ladder, pushing ladder onto work truck rack, removing garbage from site as necessary, etc.		
FORWARD REACHING					X	Loading/unloading materials and equipment from work truck, drilling drywall/DensDeck to install onto Q decking, reaching across the body to lay adhesive, removing garbage using the chute, operating powerpack blower, and roof cutter, securing or adjusting drywall/DensDeck, insulation, vapour barrier, etc.		



PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED	
GRIPPING DEMANDS							
DOMINANT HAND							
REPETITIVE	X					-	
CONTINUOUS					x	Handling materials and equipment while loading/unloading truck, at the shop and on site, moving materials onto/from the roof using hoist/crane/rope method, gripping steering wheel while driving, during roof demolition, preparing and installing Q decking (as necessary), drywall/DensDeck, vapour barrier, insulation, membrane, installing fall arrest equipment, safety railings and ladders, using various tools, removing garbage and site clean up, etc.	
NON-DOMINANT HAND							
REPETITIVE	X					-	
CONTINUOUS				X		Handling materials and equipment while loading/unloading truck, at the shop and on site, moving materials onto/from the roof using hoist/crane/rope method, gripping steering wheel while driving, during roof demolition, preparing and installing Q decking (as necessary), drywall/DensDeck, vapour barrier, insulation, membrane, installing fall arrest equipment, safety railings and ladders, using various tools, removing garbage and site clean up, etc.	
FINGER DEXTERITY				X		Using screws and drill to install drywall/densdeck, removing cover from vapour barrier, operate two-part adhesive dispenser and torch gun, etc.	
MANUAL HANDLING DEMANDS							
LIFTING							
LIGHT (MAX 20 LB / 9 KG)				x		Lifting lighter materials and equipment including: chainsaws (12 lb.), two-part adhesive dispenser, various tools, garbage, pylons (12 lb.).	
MEDIUM (MAX 50 LB / 22.5 KG)			x			Lifting heavier materials and equipment, including: powerpack blower (22 lb.), fall arrest equipment (23 lb.), tool bag (26 lb.), etc., when loading/unloading truck, project site, during site clean up, and while on the roof during demolition and roof installation.	
HEAVY (MAX 100 LB / 45 KG)			x			Lifting materials and equipment, including: Q decking (as necessary), insulation, drywall/DensDeck (57/66 lb.), membrane (80 lb.), finishing, ladders (up to 70 lb.), etc.	
VERY HEAVY (OVER 100 LB / 45 KG)	X					-	
CARRYING							
LIGHT (MAX 20 LB / 9 KG)				х		Carrying various materials and equipment, including: shovels (6 lb.), adhesive dispenser (15 lb.), chainsaw (12 lb.), garbage, etc., throughout the site and on the roof.	
MEDIUM (MAX 50 LB / 22.5 KG)			X			Carrying materials and equipment including: fall arrest equipment (23 lb.), tool bag (26 lb.).	
HEAVY (MAX 100 LB / 45 KG)			X			Carrying membrane (68 lb.), finishing, insulation, drywall/ DensDeck (57/66 lb.), etc. *often two people.	



PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED		
MOBILE PUSHING								
LIGHT (MAX 20 LB / 9 KG)	X					-		
MEDIUM (MAX 50 LB / 22.5 KG)	X					-		
HEAVY (MAX 100 LB / 45 KG)	X					-		
VERY HEAVY (OVER 100 LB / 45 KG)	X					-		
MOBILE PULLING	MOBILE PULLING							
LIGHT (MAX 20 LB / 9 KG)	X					-		
MEDIUM (MAX 50 LB / 22.5 KG)	X					-		
HEAVY (MAX 100 LB / 45 KG)	X					-		
VERY HEAVY (OVER 100 LB / 45 KG)	X					-		
STATIC PUSHING/PULLING	STATIC PUSHING/PULLING							
LIGHT (MAX 20 LB / 9 KG)	Х					-		
MEDIUM (MAX 50 LB / 22.5 KG)			x			Finishing stages requires pulling to reposition/lay vapour barrier, insulation, drywall/DensDeck and Q decking, removing previous roofing from Q decking, pushing drill into drywall/DensDeck (35.5 lb), painting adhesive onto drywall/DensDeck (20.5 lb push, 17.5lb pull), using spades/shovels, etc.		
HEAVY (MAX 100 LB / 45 KG)	X					-		
VERY HEAVY (OVER 100 LB / 45 KG)	X					-		