PHYSICAL DEMANDS ANALYSIS (EXAMPLE) COMMERCIAL SPRINKLER SYSTEM INSTALLER



JOB DESCRIPTION

TASK#	TASK DESCRIPTION	% OF SHIFT
1	Prep and clean up.	15%
2	Install drill hangers.	25%
3	Prepare pipe for install.	30%
4	Install pipe and sprinkler headsdrainage line and venting. * Can last months depending on the size of the job.	30%

The physical demands may vary depending on company and location.

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

ITEMS HANDLED

- Impact drill (2 lbs.)
- 6' ladder (80 lbs.)
- Power Kreg

- Threading machine (107 lbs.)
- Box of hangers (8 lbs.)
- Sprinkler head with pipe (35 lbs.)
- 4" pipe (105 lbs.)
- Power machine (170 lbs.)

PERSONAL PROTECTIVE EQUIPMENT

- · Work boots
- · Safety glasses or goggles
- Gloves
- Respirator

ENVIRONMENTAL EXPOSURE

Works inside or outside near buildings. Exposed to restricted spaces, or wet, damp areas, dust from drywall and fumes from solder, adhesives, glue.

HYSICAL DEMANDS ANALYSIS (EXAMPLE)

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JOB TITLE LENGTH OF SHIFT (HRS) COMMERCIAL SPRINKLER SYSTEM INSTALLER JOB DESCRIPTION Installs sprinkler systems. PHYSICAL JOB DEMANDS - Grade using a scale of 0 - 4 0 = NOT REQUIRED 1 = SELDOM REQUIRED: < 5% 2 = MINOR REQUIREMENT: 5-33% Less than 30 minutes per day or 30 minutes up to 3.5 hours per day or not daily 1 repetition every 30 minutes 3 = OCCASIONAL REQUIREMENT: 34-66% **4 = FREQUENT REQUIREMENT: 67-100%** 6.5 hours per day up to shift length or 3.5 hours up to 6.5 hours per day or 1 repetition every 2 minutes 1 repetition every 30 seconds **INSTRUCTIONS:** 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 2 3 4 DESCRIBE THE TASK(S) PERFORMED 1 **WHOLE BODY DEMANDS** X **SITTING** X SITTING WITH VIBRATION/JARRING **DRIVING** X During preparation and installation of dryer hangers and pipe, **STANDING** X using threading machine including while on ladders. **RUNNING** X **WALKING** Throughout site, while placing pipes in main and upper floor **LEVEL** X of site, etc. X UNEVEN GROUND SLOPES / RAMPS X **CLIMBING REGULAR STAIRS** X Interior of site. STEEP STAIRS X **LADDERS** X During installation of dryer hangers and pipe. X **OTHER LOW LEVEL WORK** Required during lower-level work including installing sprinkler **KNEELING** X systems in crawl spaces. Required during lower-level work including installing sprinkler **SOUATTING** X systems in crawl spaces. Required during lower-level work including installing sprinkler **CRAWLING** X systems in crawl spaces.

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PHYSICAL JOB DEMANDS DESCRIBE THE TASK(S) PERFORMED 0 1 2 3 4 SPECIFIC BODY DEMANDS **NECK MOVEMENTS BENDING** Checking surroundings on site, looking up for installation of **SUSTAINED** X dryer hangers and pipe, looking down at threading machine. X **REPETITIVE TWISTING SUSTAINED** X X **RFPFTITIVF** During preparation and installation of dryer hangers and pipe. TRUNK MOVEMENTS **BENDING SUSTAINED** X When using threading machine. **REPETITIVE** X **TWISTING SUSTAINED** X During installation of dryer hangers and pipes with sprinkler REPETITIVE X **SHOULDER MOVEMENTS** During installation of dryer hangers and pipes with sprinkler **OVERHEAD** X heads. During installation of dryer hangers and pipes with sprinkler FORWARD REACHING X heads. **GRIPPING DEMANDS DOMINANT HAND REPETITIVE** X Gripping equipment, tools, pipes, hangers and sprinkler heads, CONTINUOUS X ladders, threading machine and power machine, during work area set up, pipe preparation, installation & work area clean up. **NON-DOMINANT HAND REPETITIVE** X Gripping equipment, tools, pipes, hangers and sprinkler heads, ladders, threading machine and power machine, **CONTINUOUS** X during work area set up, pipe preparation, installation and work area clean up. X **FINGER DEXTERITY** Installing hangers into frame of building (wood).

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PHYSICAL JOB DEMANDS	0	1	2	3	4	DESCRIBE THE TASK(S) PERFORMED		
MANUAL HANDLING DEMANDS								
LIFTING								
LIGHT (MAX 20 LB / 9 KG)			X			Lifting tools (drills), box of hangers (8 lbs.), various sizes of pipes (up to 105 lbs.), during work area preparation and cleaning.		
MEDIUM (MAX 50 LB / 22.5 KG)			X			Sprinkler head with pipe (35 lbs.), pipe.		
HEAVY (MAX 100 LB / 45 KG)			X			Ladder (80 lbs.), pipe.		
VERY HEAVY (OVER 100 LB / 45 KG)		X				Threading machine (107 lbs.), power machine (170 lbs.), various sizes of pipes (up to 105 lbs.)		
CARRYING								
LIGHT (MAX 20 LB / 9 KG)			Х			Lifting tools (drills), box of hangers (8 lbs.), various sizes of pipes (up to 105 lbs.), during work area preparation and cleaning.		
MEDIUM (MAX 50 LB / 22.5 KG)			X			Sprinkler head with pipe (35 lbs.), pipe.		
HEAVY (MAX 100 LB / 45 KG)		X				Ladder (80 lbs.), pipe.		
VERY HEAVY (OVER 100 LB / 45 KG)		X				Threading machine (107 lbs.), power machine (170 lbs.), various sizes of pipes (up to 105 lbs.)		
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								
LIGHT (MAX 20 LB / 9 KG)	Х					-		
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								
LIGHT (MAX 20 LB / 9 KG)	X					-		
MEDIUM (MAX 50 LB / 22.5 KG)			X			Pushing/pulling pipe through threading machine and using dye for threading machine, on hangers during installation, etc.		
HEAVY (MAX 100 LB / 45 KG)	X					-		
VERY HEAVY (OVER 100 LB / 45 KG)	Х					-		