

Loose Pipe to Dhatec Storage

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| Worksite: Squamish Terminals | Approved By: H&S Committee | Date Issued: February 18, 2020 | Full Procedure reference: PRO-030, v1.0 |
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| Key Site Safety Requirements: | Personal Protective Equipment (PPE) |
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| <ul style="list-style-type: none"> Wear required PPE Attend Tool Box talk - mandatory Site Speed Limits 20km on dock, 10km in sheds Seatbelts mandatory No use of electronic devices while in active working areas No smoking on site (designated area only) Drug and Alcohol use strictly prohibited | <ul style="list-style-type: none"> Hi-viz Vest Safety Boots (6") Type 2 Hard Hat – while working around reachstacker Recommended -Eye protection, hearing protection, gloves Dust mask – if needed |

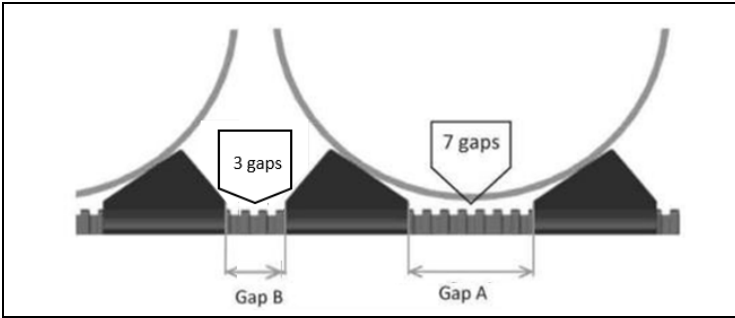
Job Hazards Present:

- Slips, Trips, Falls on slippery / uneven surfaces
- Pedestrians exposure to being struck by site traffic
- Site vehicles / materials handling equipment striking other vehicles or stationary obstacles / equipment
- Slips/falls from accessing/exiting machines
- Poor ergonomics/overexertion – lifting Dhatec rail pieces
- Poor ergonomics while pulling, pushing – overexertion, musculoskeletal injuries
- Poor ergonomics – awkward positions while bending, kneeling
- Falling objects/jolts – improper handling of load on Reachstacker / lift trucks
- Falling objects (equipment, cargo, debris, broken equipment, tools) – risk of being struck or crushed
- Unstable cargo stockpiling – crush
- Overhead hazards – hook, frame, slings, cargo, equipment, gear
- Pinch Points while rigging, lifting, banding, pulling, pushing
- Materials handling equipment - unstable load – tipping/rolling
- Sharp edges / slivers
- Exposure to elements (wind, sunburn, heat index, cold, dust)

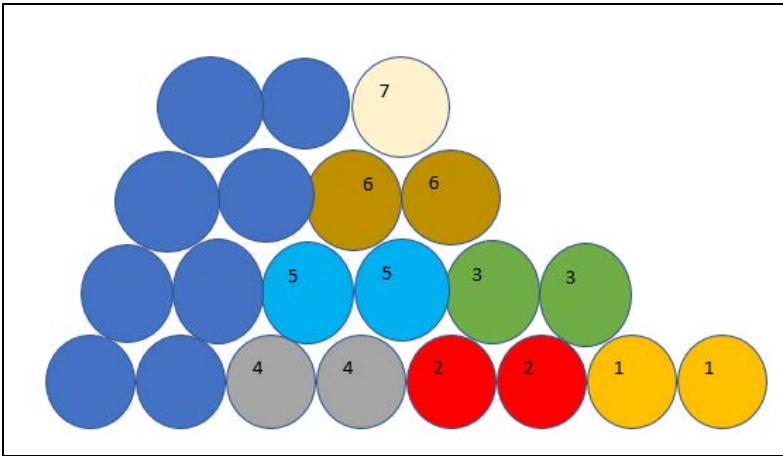
Handling Pipe to Dhatec Storage

- 1) Crew is dispatched to “starting area” and Foreman discuss pipe receiving operational plan, safety and PPE with crew.
- 2) Pipe stop blocks to be inspected throughout entire operation to check for damage and ensure correct placement
- 3) **Ensure careful handling of Dhatec storage equipment – do not miss-handle and load carefully**
- 4) Drivers place bunks alongside vessel for pipe to be loaded on once unloaded from vessel
- 5) Drivers place bunks in front of Dhatec pipe stop storage laydown area
- 6) Driver uses forklift to remove pipe from shipside bunk to the bunks are the Dhatec storage area. Note: Caution is to be taken when tilting back to prevent pipes from rolling too fast causing a heavy impact with the f/l backrest and potential damage to the rollers and stub shafts.
- 7) Amount of pipe taken by forklift is based on size and weight of pipe.
- 8) Reachstacker moves into place with lifting head above pipe
- 9) Dockmen connect pipe fingers to the ends of the pipe
- 10) Reachstacker adjusts lifting frame as necessary to correct width
- 11) Reachstacker lifts the pipe once Dockmen are clear and drives into the Dhatec pipe stop storage area
- 12) **Pipes need to be positioned with minimum impact on the blocks, vertical crane speed should be limited to 10cm/s**
- 13) Refer to section 9.0 for correct positioning of pipe on the Dhatec storage system
- 14) Once pipe is in correct position, Dockmen remove pipe fingers using the tag line or pike poles
- 15) If necessary, use stairway to reach higher tiers
- 16) The last tier should be stepped down

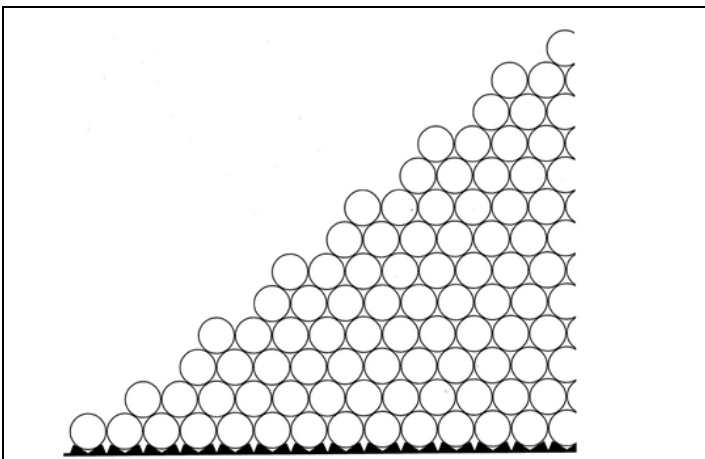
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Correct positioning of pipe blocks

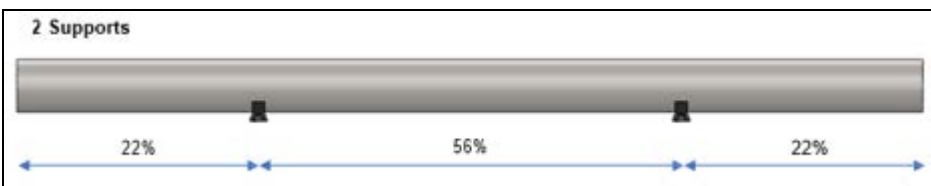


Stacking order



If loading pipe higher, continue with this system of stepping back one pipe and rise two as per diagram below

Ensure the vacant positions on the outside of the pipe stack are respected



Even positioning of pipe across rails