CDL SUGARING EQUIPMENT

Owner's manual

Version 1.0 | 25/06/2025
679600-MAN-EN

VERTICAL SILO

Table of Contents

Introduction

Thank you for choosing a CDL Silo. At CDL sugaring equipment, we place great importance on developing high-quality products designed to meet the specific needs of modern maple syrup production. Your trust in our equipment is a testament to our commitment to excellence and innovation.

This user manual aims to provide you with all the necessary information for the effective and safe use of your CDL Silo. It includes detailed instructions on installation, maintenance, and best practices to help you keep your Silo in optimal working condition, thereby maximizing the longevity of your equipment.

We hope this manual will be of great assistance to you, and we encourage you to contact your representative for any questions or additional support. Your satisfaction is our priority, and we are here to support you in the success of your business.

Safety Instructions

Safety is a top priority during the installation and use of your equipment. This section provides essential information to ensure its safe use.

Please carefully read all safety instructions before beginning any operation. The following pictograms are used in this manual to draw your attention to specific hazards and precautions. Understanding and following these instructions will help you prevent accidents and ensure a safe working environment.

General Danger
This symbol indicates a potential risk of serious injury or property damage. Please take all necessary precautions to avoid accidents.

Crushing Hazard
This symbol indicates a potential crushing hazard that could result in serious injury. Be aware of areas where moving or heavy parts may shift.

Use of a Harness

- For silos of 15 feet or more, the use of a harness is essential when climbing the ladder. A ladder safety system, including a slider and harness, is available as an option from CDL. (679610009)

Air Vent Clearance

WARNING: Regular checks are necessary to ensure there is no obstruction due to snow or ice buildup. At all times, air must flow freely through the ventilation vent. CDL is not responsible for any damage caused by blocked ventilation.

Product Description

Available Sizes Description

Dimension		Capacity	
Diameter	**Height**	(gal. US)	(gal. IMP)
4 feet	10 feet	800	682
6 feet	10 feet	1916	1595
6 feet	15 feet	2915	2425
8 feet	7.5 feet	2650	2210
8 feet	10 feet	3570	2975
8 feet	12.5 feet	4520	3765
8 feet	15 feet	5465	4550
8 feet	20 feet	7325	6100
8 feet	25 feet	9200	7660
12 feet	10 feet	8050	6700
12 feet	15 feet	12 255	10 200
12 feet	20 feet	16 480	13 720
12 feet	25 feet	20 730	17 260
12 feet	30 feet	24 800	20 650

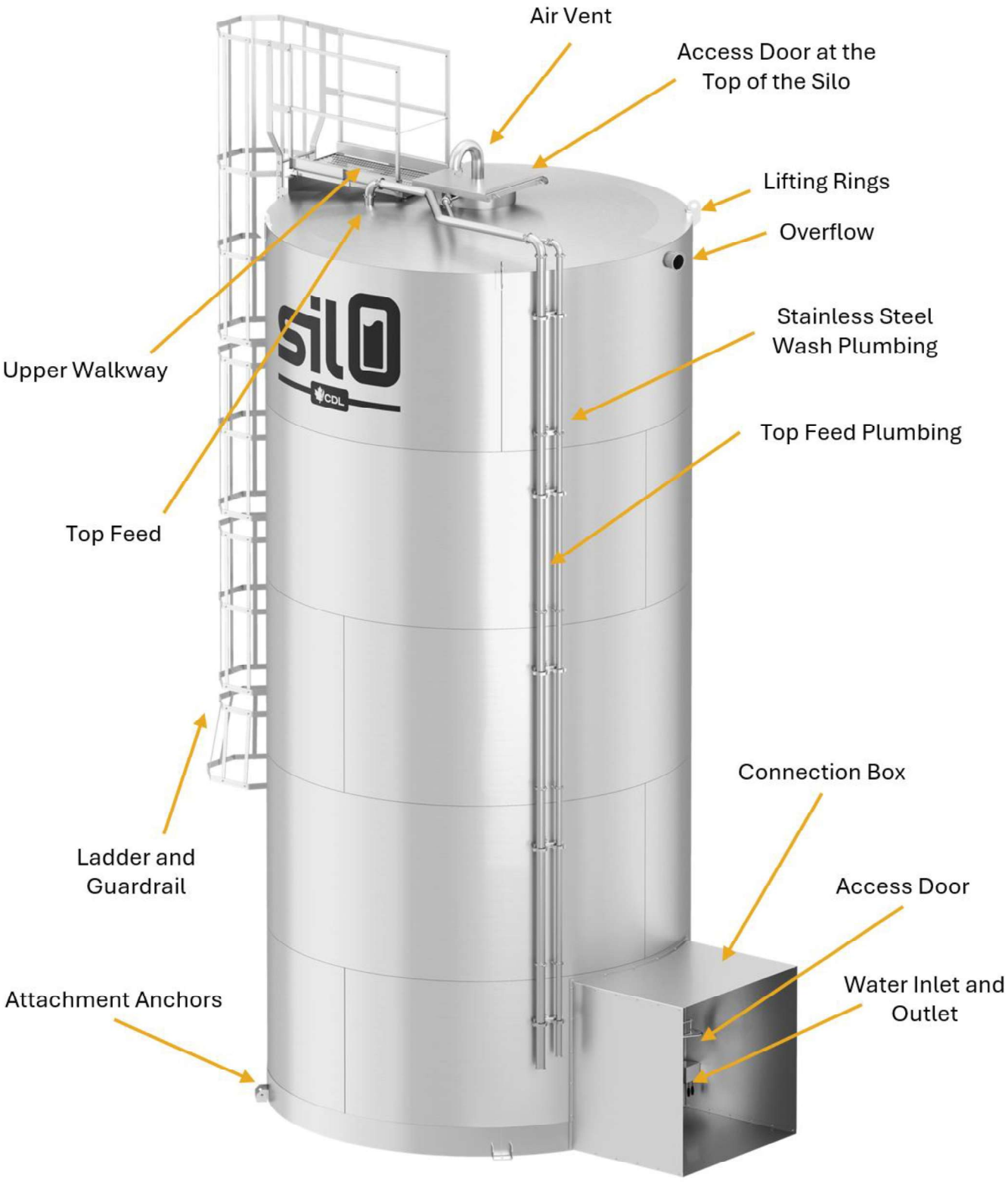
Available Options

- Access hatch at the top of the silo
- Safety kit for silos 15 feet and taller
- Ladder and guardrail compliant with building codes.
- Ladder safety cage
- Top walkway
- Pump for cleaning nozzle
- Pressure and temperature transmitter with water level display via the CDL **I**ntelligence system
- Junction box connecting the building to the silo
- Top feed plumbing in stainless steel
- Wash ball supply plumbing in stainless steel
- 4-inch outlet

Included Features

- 360-degree rotating cleaning nozzle mounted on top
- Access hatch at the base of the silo
- Water inlets (one at the bottom and one at the top) and 3-inch water outlet
- Air vent with mesh to allow airflow while blocking unwanted elements

Component Identification



Installation

Site Preparation

Before installing your CDL vertical silo, it is essential to properly prepare the site to ensure a safe, stable, and long-lasting installation.

The silo must be installed on a concrete slab specifically designed based on the dimensions of the selected model. Specifications regarding dimensions, concrete composition, reinforcement, and anchoring must be strictly followed. These technical requirements ensure the silo's stability and minimize risks related to its use.

Before installation, ensure that the site is clear of any obstacles such as branches, trees, or debris that could hinder the silo setup or the use of necessary installation equipment. A clear work area facilitates installation maneuvers and enhances the safety of everyone involved.

Important: Please refer to the technical sheets in the appendix for specific details related to the concrete base corresponding to your silo model.

Installation Steps

Silo Installation

The installation of the CDL vertical silo must be carried out meticulously and in compliance with all safety guidelines. This step is the responsibility of the customer or the designated installer.

Use appropriate lifting equipment, such as a crane or boom truck, suited to the terrain conditions as well as the weight and height of the silo. Ensure that the site is accessible and prepared according to the recommendations outlined in the previous section.

Once the silo is positioned on the concrete base, it must be securely anchored according to the technical specifications provided for the specific model. These anchors are essential to ensure the stability of the structure against weather conditions, wind, and internal loads.

Important: The use of non-compliant anchoring devices or improper installation can pose serious safety risks and compromise the integrity of the equipment.

Refer to the appendices for anchoring standards and specific mounting plans for your silo model.

Plumbing Connection

Each CDL vertical silo is equipped, as standard, with a 3-inch water inlet and outlet located at its base. These connections allow the silo to be integrated into your liquid transport and distribution system.

- **Water Inlet Connection**
  The inlet must be connected to the supply pump. **A check valve must be installed** before the silo inlet to prevent any backflow of water. This measure is essential to maintain stable pressure and to prevent contamination or overflow risks.
- **Water Outlet Connection**
  The silo outlet must be connected to the equipment that will use its contents (reverse osmosis unit, pumping station, etc.). In most cases, gravity drainage is sufficient to ensure an adequate flow rate.
- **Recommended Components**
  The connection can be made using stainless steel ferrules and fittings available from CDL (not included with the silo). These components ensure long-lasting sealing and corrosion resistance.

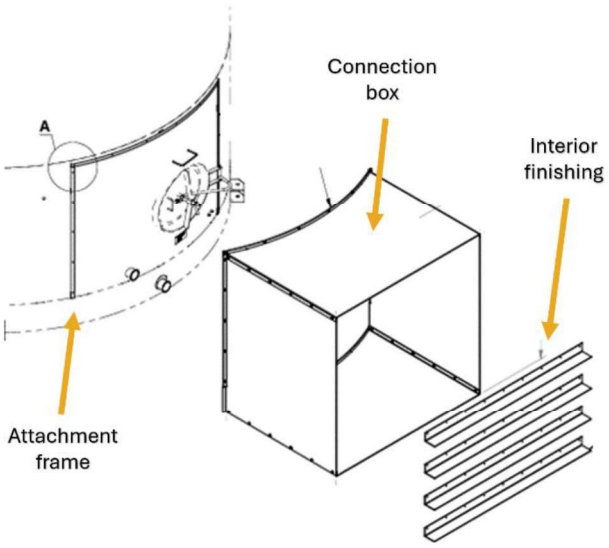
Optional Feature: A stainless-steel top-feed plumbing kit is available.

Installation of the Connection Box from the Silo to the Building *(optional)*

The optional connection box allows for the connection between the building and the Silo. Follow these steps for proper installation :

1. **Frame Attachment:**
- Start by welding the **attachment frame** to the Silo. This frame will provide the solid base needed for the connection box.
2. **Box Installation:**
- Bolt the **connection box** onto the attachment frame. Ensure that the bolts are tightly secured to hold the box in place.
3. **Excess Adjustment:**
- Once the box is installed, the excess can be cut from inside the building for a perfect fit. This ensures that the box integrates properly and doesn't protrude unnecessarily inside.
4. **Interior Finishing:**
- Install the stainless-steel finishing inside the building. This finishing not only provides a clean and professional appearance but also protects the connection.
5. **Sealing:**
- Apply silicone caulking around the connection points to ensure a watertight seal. This step is crucial to prevent water leaks and maintain a secure connection between the Silo and the building.

Follow these steps carefully to ensure a secure and durable installation of your connection box.



Spray Ball (Factory Installed)

Each Silo model comes standard with a 360-degree rotating spray ball, mounted from the top of the Silo. This is installed at the factory.

- **Connection to the Pump:**

The spray ball must be connected to a pump suitable for the size of the silo.
Please consult your representative for advice on the pump that best suits your installation.

Spray ball flow capacity GPM (l/min) based on pressure				
@10 PSI	**@20 PSI**	**@30 PSI**	**@40 PSI**	**@50 PSI**
45 (172)	64 (250)	78 (290)	90(355)	101 (385)

- **Option: Stainless Steel Plumbing Kit:**

If desired, a stainless-steel plumbing kit for the spray ball is available as an option.

Ladder Installation (Optional)

An access ladder can be added to facilitate maintenance at the top of the silo.

- The ladder is mounted to the silo using welded anchors spaced every 60 inches (1.5 m) in height.
- Once the anchors are in place, the ladder is securely bolted to them.

Ensure the ladder is properly installed to guarantee user safety.

Usage

Pre-Use Checks

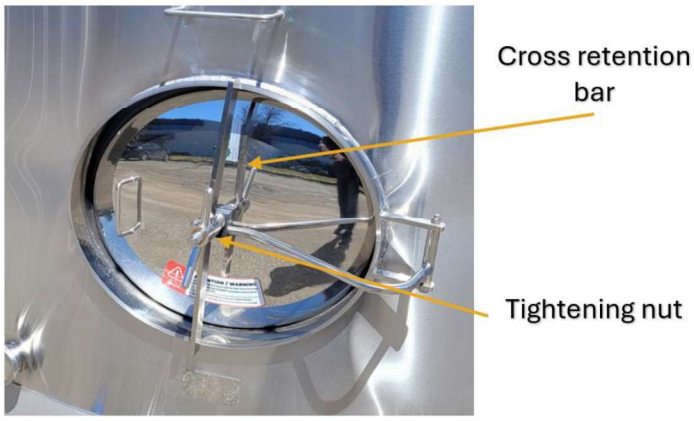
After the installation of the Silo and before its use, it is crucial to perform the following checks to ensure proper operation.

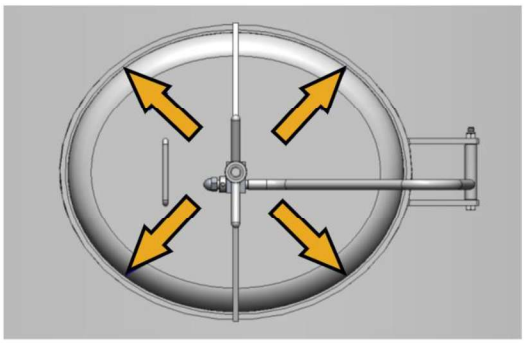
Access Door Alignment

To ensure a good seal on the Silo's access door, proceed as follows:

1. **Initial Door Closure:**
    - Close the door and lightly tighten it with the cross-retention bar.
2. **Centering the Door:**
    - Center the door as best as possible within the frame. This can be done manually or with a flat tool to adjust the door from left to right and in rotation.
3. **Tightening the Handle:**
    - Tighten the clamping handle as much as possible by hand.

Note : If the door is properly centered, excessive tightening of the retention bar will not be necessary. The water pressure will naturally help to seal the door.





Properly align the door with the frame

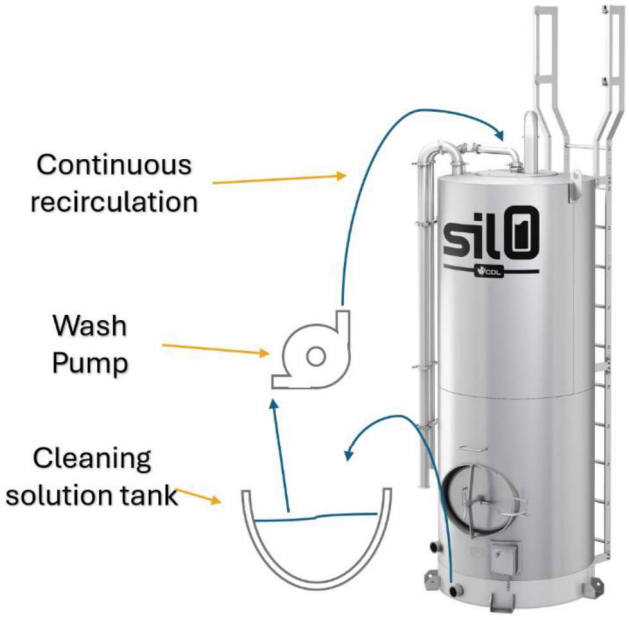
Air Vent Clearance

WARNING: Regular checks are necessary to ensure there is no obstruction due to snow or ice buildup. At all times, air must flow freely through the ventilation vent. CDL is not responsible for any damage caused by blocked ventilation.

Procedure for Washing a New Silo

Before the first use of your new Silo, it is crucial to follow these cleaning steps to ensure a clean and contaminant-free start. This initial wash removes any residual manufacturing oils, polishing paste, and/or packaging debris.

1. **Preparation of the Cleaning Solution:**
    - Prepare a solution of hot water and citric acid. The concentration should reach a pH of 2, which corresponds to approximately one cup of citric acid per 10 gallons of water. The quantity of solution varies depending on the size of the silo and should be sufficient for continuous recirculation through the system.
2. **Recirculation of the Solution:**
    - Recirculate the hot water and citric acid solution in a closed circuit through the spray ball pump for 3-6 hours, or until the solution becomes dirty. If the solution becomes contaminated, drain it and repeat the procedure.



3. **Manual Cleaning:**
    - Use the same solution to manually clean every accessible component that may come into contact with maple water, including pipes, fittings, and stainless steel valves.
4. **Thorough Rinsing:**
    - Rinse thoroughly with clean water until all the wash water containing manufacturing residues or acid is completely eliminated. For this step, drain the rinse water through the outlet valve.

Additional Instructions:

- Preferably use low-mineral, hot water for greater efficiency.
- For exterior cleaning, use hot water if possible, even in moderately cold conditions (around -5°C).
- For biological cleaning, use glacial acetic acid available from CDL.

By following these steps, you ensure that your silo is clean and ready for use without the risk of contamination.

Maintenance and Upkeep

Silo Cleaning

Washing a Silo During the Season

It is important to regularly rinse the Silo during the sugaring season when it is emptied of its contents. Follow this procedure:

1. **Regular Rinsing:**
    - Use permeate or clean water through the spray ball.
    - Drain the rinse water through the outlet valve.
    - Repeat this step until the Silo is thoroughly rinsed.
2. **Maintaining Cleanliness:**
    - Regular rinses throughout the season should be sufficient to keep the Silo clean.
3. **Deep Cleaning:**
    - If regular rinsing is not sufficient, wash the Silo with citric acid following the cleaning procedure for a new Silo detailed in this manual.

By following this procedure, you ensure optimal cleanliness of your Silo throughout the sugaring season.

Component Inspection

Regularly inspect the Silo for any potential leaks around the door or plumbing.

Regularly check that no debris or ice is obstructing the air vent at the top of the Silo.

Storage

Decommissioning Procedures

Before storing the Silo, it is essential to perform a thorough cleaning following the procedure detailed in the "Maintenance and Upkeep" section of this manual.

- **With Connection Box:** If your Silo is equipped with a connection box, leave the access door open to allow proper ventilation during storage.
- **Without Connection Box:** If the Silo is outside without a connection box, close the access door to prevent any external contamination during storage.

Following these steps will help keep your Silo in good condition and ready for the next usage season.

Recommissioning Procedure

When bringing the Silo back into service, carefully follow the procedure detailed in the "Usage" section of this manual to ensure proper and safe recommissioning.

Troubleshooting

This troubleshooting section is designed to help you quickly identify and resolve any issues you may encounter with your maple sap Silo. If you experience persistent difficulties, your representative or our customer service team is available to provide additional assistance.

Problems and Solutions

Silo Leakage at the Door:

1. Empty the Silo of its contents.
2. Repeat the access door closure procedure described in the "Usage" section of this manual.
3. If the leak persists, replace the access door seal (SKU 679610027).

Washing is Not Performed Correctly:

1. The spray ball may be worn out, affecting its performance. Replace the wash ball (SKU 6793202).
2. Check the condition and proper connection of the wash ball plumbing.
3. Ensure the feed pump is functioning correctly.

If you encounter major issues, contact your representative for assistance.

Replacement Parts

SKU	Description	Image
679610027	Access Door Seal	
67961010	Handle & Nut for Access Door of 8' & 12' Silo	
6793202	Rotating Teflon Spray Ball for Silo	

Warranty

The CDL Silos and Tanks are covered by a two-year (two consecutive sugaring seasons) limited warranty. For two years, from the date of original purchase, CDL inc. will repair or replace the parts of this equipment that have a defect in material or workmanship, if this equipment is installed, used and maintained according to the instructions provided in the user manual.

Exclusions

This warranty does not cover the following:

1. Aesthetic appearance.
2. Products whose original serial number has been removed, altered or is not easily legible.
3. Equipment that has changed ownership or is located outside North America.
4. If CDL's maintenance procedure is not followed.
5. Production losses due to any problem.
6. Loss of income caused by the quality of the syrup.
7. Service calls that do not concern a malfunction, manufacturing defect or material defect, or for products that are not used in accordance with the instructions provided.
8. Service calls to check the installation of your Tank Silo or to obtain instructions regarding use.
9. Calls for service after two years.
10. Damage caused by: repairs made by unauthorized technicians; the use of parts other than original CDL parts or the use of parts that were not obtained through an authorized technician; or external causes such as abuse, misuse, accidents, fires or natural disasters.
11. If the Tank-Silo has been damaged by abuse, negligence, modifications made by the customer or electrical problems.
12. Damage caused by the use of products that are not intended for use in a Tank-Silo or by the misuse of cleaning products.

Disclaimer of warranties; limitation of remedies

Customer's sole and exclusive remedy under this limited warranty shall be repair or replacement as provided herein. Claims based on implied warranties, including warranties of merchantability or fitness for a particular purpose, are limited to two years or the shortest period allowed by law, but not less than two years. CDL shall not be liable for consequential or incidental damages such as property damages and incidental expenses or loss or revenues caused by any event covered by this warranty. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on the duration of implied warranties, so these limitations or exclusions may not apply to you. This written warranty gives you specific legal rights. You may also have other rights that vary from states to states.

If you need service

Keep your receipt, delivery slip or some oter appropriate payment record to establish the warranty period should service be required. If service is performed, it is in your best interest to obtain and keep all receipts. Service under this warranty must be obtained by contacting CDL at the addresses or phone numbers below.

Obligations for service and parts under this warranty will be performed by CDL in Canada. Products features or specifications as described or illustrated are subject to change without notice.

CDL Sugaring Equipment Inc.
257, route 279
Saint-Lazare-de-Bellechasse (Québec) G0R 3J0
Canada
418 883-5158 | 1 800 361-5158
cdlinc.ca

CDL USA
3 Lemnah Drive
St.Albans VT 05478
United States
802-527-0000 | 1-800-762-5587
cdlusa.com

Notes

Appendix

1. Concrete slab for 4 feet diameter Silo (10 feet high)
2. Concrete slab for 6 feet diameter Silo (10 feet high)
3. Concrete slab for 6 feet diameter Silo (15 feet high)
4. Concrete slab for 8 feet diameter Silo (7.5, 10, 12.5, 15 feet high)
5. Concrete slab for 8 feet diameter Silo (20 and 25 feet high)
6. Concrete slab for 12 feet diameter Silo (10 and 15 feet high)
7. Concrete slab for 12 feet diameter Silo (20 and 25 feet high)
8. Concrete slab for 12 feet diameter Silo (30 feet high)
9. Overflow location

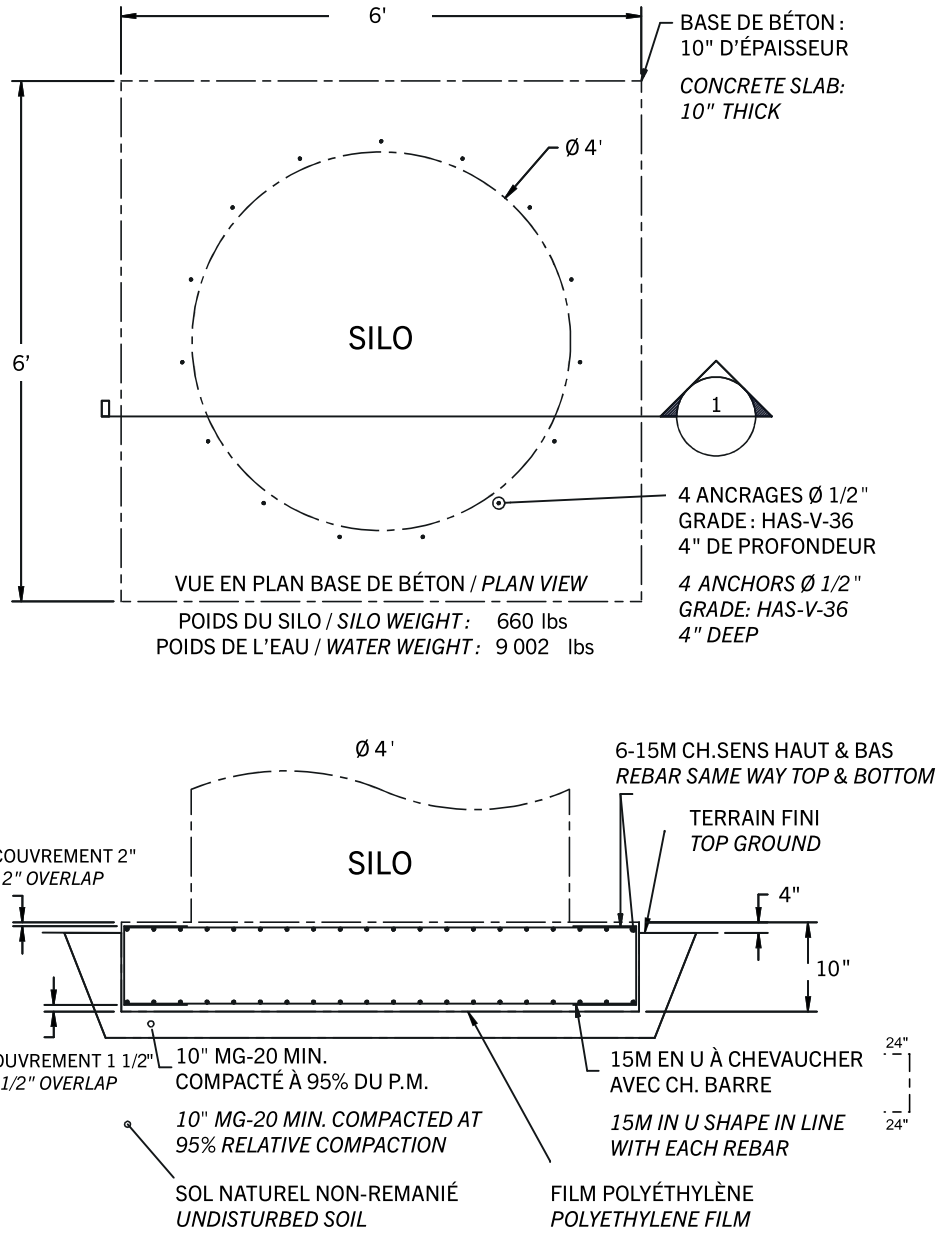
CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

BASE DE BÉTON POUR SILO DE 4 PIEDS DE DIAMÈTRE (10 PIEDS DE HAUT)

CONCRETE SLAB FOR 4 FEET DIAMETER SILO (10 FEET HIGH)

TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
CARACTÉRISTIQUE DE TENEUR EN AIR (%) *AIR CONTENT (%)*	2 / (4% à 7%)
RÉSISTANCE MINIMALE À LA COMPRESSION À 28 JOURS (MPA) *MINIMAL RESISTANCE AFTER 28 DAYS (MPA)*	25
AFFAISSEMENT (POUCES) *SLUMP TEST (INCH)*	3-1/2" ± 1-1/4"
RECOUVREMENT MINIMAL DE L'ARMATURE *MINIMUM REBAR COVERING*	BAS + CÔTÉS 3" | HAUT 2" *BOTTOM-SIDE 3" | TOP 2"*

CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY* : 100 kPa (2000 lb/pi²)



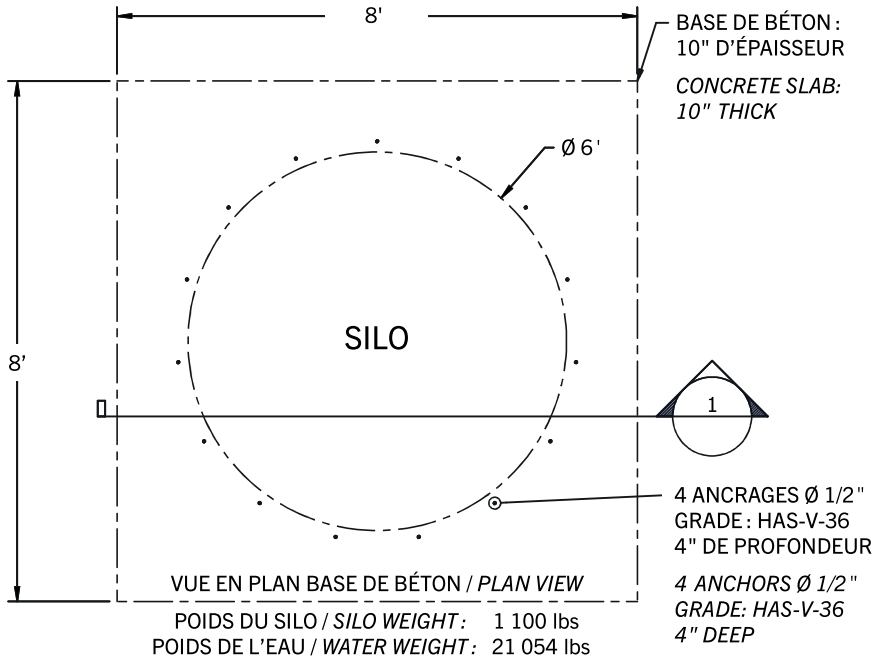
CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

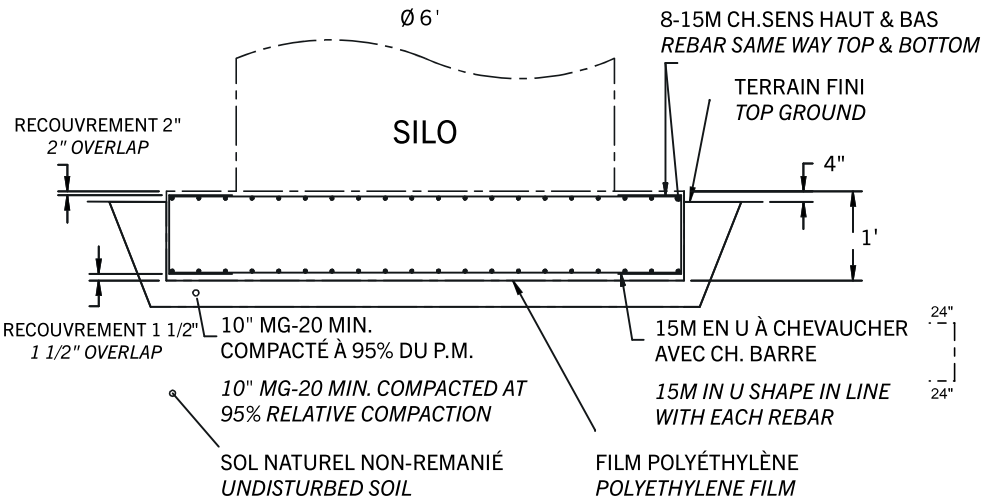
BASE DE BÉTON POUR SILO DE 6 PIEDS DE DIAMÈTRE (10 PIEDS DE HAUT)

CONCRETE SLAB FOR 6 FEET DIAMETER SILO (10 FEET HIGH)

TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
CARACTÉRISTIQUE DE TENEUR EN AIR (%) *AIR CONTENT (%)*	2 / (4% à 7%)
RÉSISTANCE MINIMALE À LA COMPRESSION À 28 JOURS (MPA) *MINIMAL RESISTANCE AFTER 28 DAYS (MPA)*	25
AFFAISSEMENT (POUCES) *SLUMP TEST (INCH)*	3-1/2" ± 1-1/4"
RECOUVREMENT MINIMAL DE L'ARMATURE *MINIMUM REBAR COVERING*	BAS + CÔTÉS 3" | HAUT 2" *BOTTOM-SIDE 3" | TOP 2"*

CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY* : 100 kPa (2000 lb/pi²)





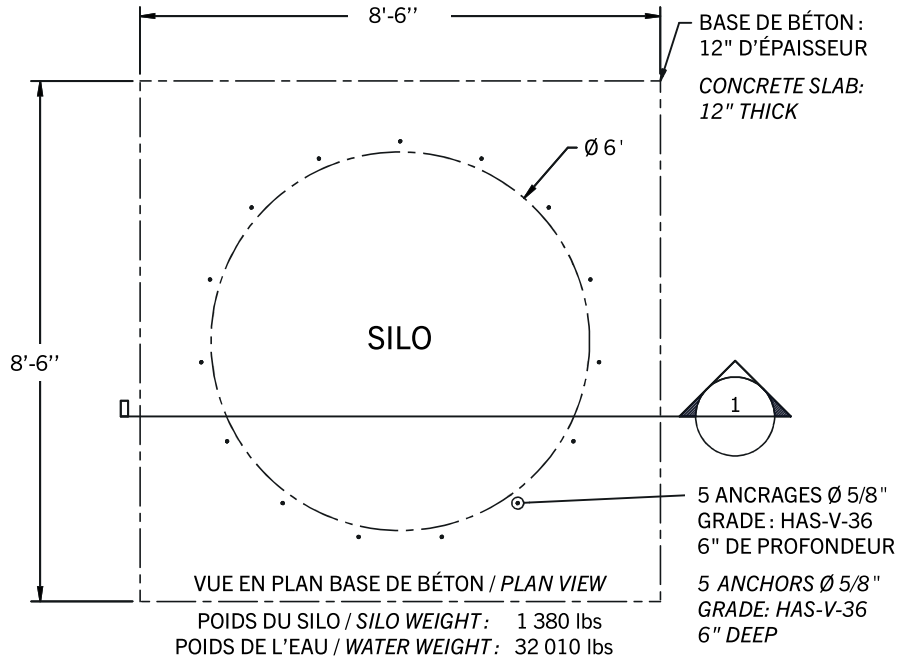
CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

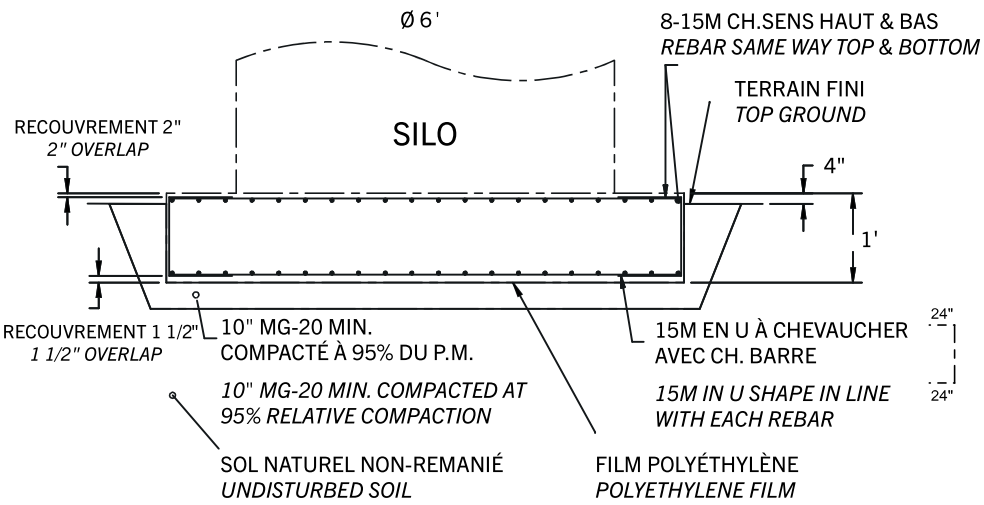
BASE DE BÉTON POUR SILO DE 6 PIEDS DE DIAMÈTRE (15 PIEDS DE HAUT)

CONCRETE SLAB FOR 6 FEET DIAMETER SILO (15 FEET HIGH)

TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
CARACTÉRISTIQUE DE TENEUR EN AIR (%) *AIR CONTENT (%)*	2 / (4% à 7%)
RÉSISTANCE MINIMALE À LA COMPRESSION À 28 JOURS (MPA) *MINIMAL RESISTANCE AFTER 28 DAYS (MPA)*	25
AFFAISSEMENT (POUCES) *SLUMP TEST (INCH)*	3-1/2" ± 1-1/4"
RECOUVREMENT MINIMAL DE L'ARMATURE *MINIMUM REBAR COVERING*	BAS + CÔTÉS 3" | HAUT 2" *BOTTOM-SIDE 3" | TOP 2"*

CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY* : 100 kPa (2000 lb/pi²)





CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

BASE DE BÉTON POUR SILO DE 8 PIEDS DE DIAMÈTRE (7.5, 10, 12.5 ET 15 PIEDS DE HAUT)

CONCRETE SLAB FOR 8 FEET DIAMETER SILO (7.5, 10, 12.5 AND 15 FEET HIGH)

TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
CARACTÉRISTIQUE DE TENEUR EN AIR (%) *AIR CONTENT (%)*	2 / (4% à 7%)
RÉSISTANCE MINIMALE À LA COMPRESSION À 28 JOURS (MPA) *MINIMAL RESISTANCE AFTER 28 DAYS (MPA)*	25
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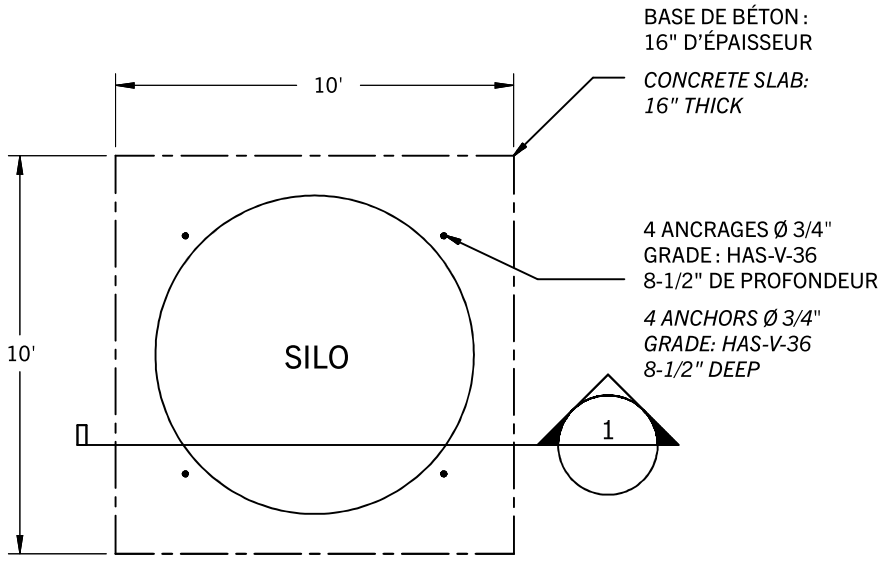
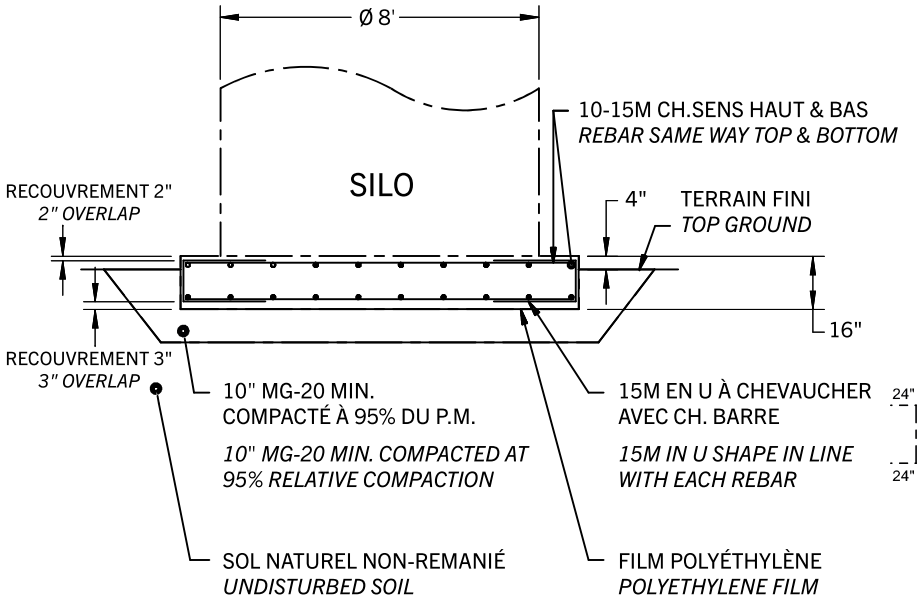
CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY*: 100 kPa (2000 lb/pi²)



VUE EN PLAN BASE DE BÉTON / *PLAN VIEW*

POIDS DU SILO / *SILO WEIGHT* : 2 700 lbs
POIDS DE L'EAU / *WATER WEIGHT* : 45 500 lbs



CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

BASE DE BÉTON POUR SILO DE 8 PIEDS DE DIAMÈTRE (20 ET 25 PIEDS DE HAUT)

CONCRETE SLAB FOR 8 FEET DIAMETER SILO (20 AND 25 FEET HIGH)

TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
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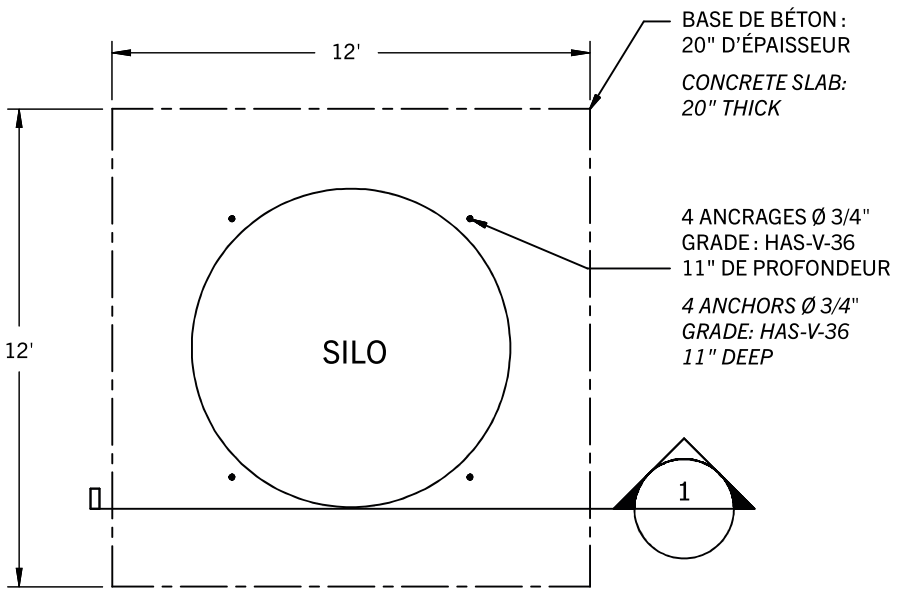
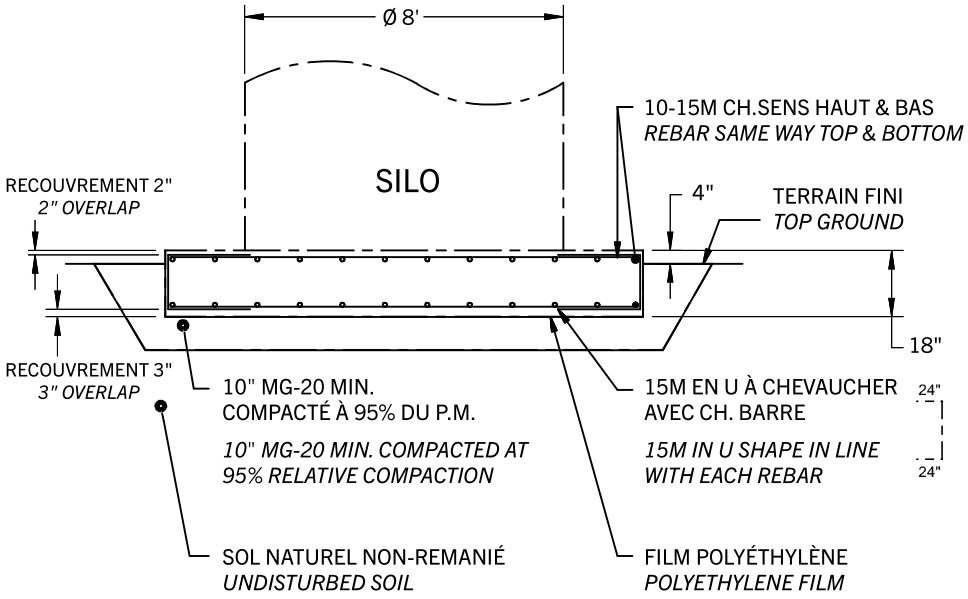
CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY*: 100 kPa (2000 lb/pi²)



VUE EN PLAN BASE DE BÉTON / *PLAN VIEW*

POIDS DU SILO / *SILO WEIGHT :* 3 900 lbs
POIDS DE L'EAU / *WATER WEIGHT :* 75 200 lbs



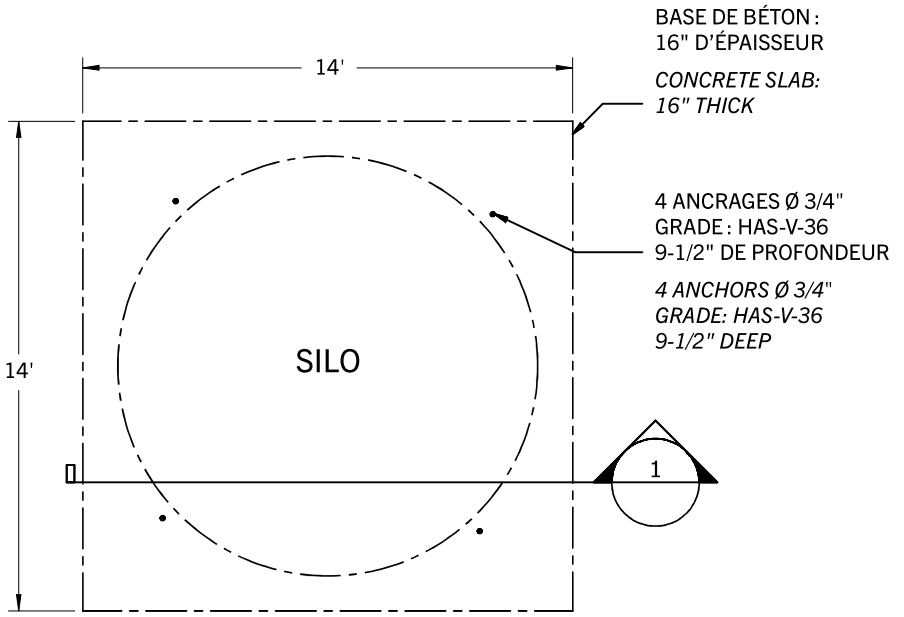
CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

BASE DE BÉTON POUR SILO DE 12 PIEDS DE DIAMÈTRE (10 ET 15 PIEDS DE HAUT)

CONCRETE SLAB FOR 12 FEET DIAMETER SILO (10 AND 15 FEET HIGH)

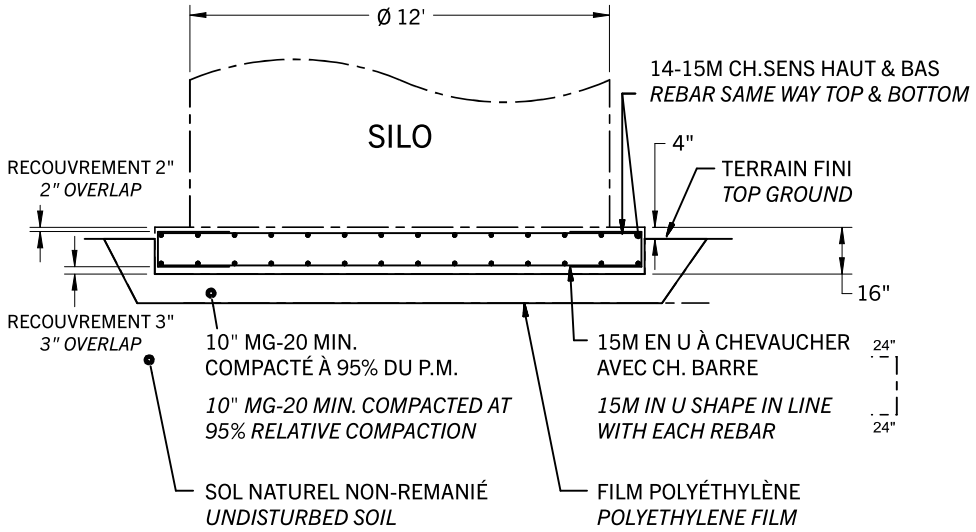
TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
CARACTÉRISTIQUE DE TENEUR EN AIR (%) *AIR CONTENT (%)*	2 / (4% à 7%)
RÉSISTANCE MINIMALE À LA COMPRESSION À 28 JOURS (MPA) *MINIMAL RESISTANCE AFTER 28 DAYS (MPA)*	25
AFFAISSEMENT (POUCES) *SLUMP TEST (INCH)*	3-1/2" ± 1-1/4"
RECOUVREMENT MINIMAL DE L'ARMATURE *MINIMUM REBAR COVERING*	BAS + CÔTÉS 3" | HAUT 2" *BOTTOM-SIDE 3" | TOP 2"*

CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY*: 100 kPa (2000 lb/pi²)



VUE EN PLAN BASE DE BÉTON / *PLAN VIEW*

POIDS DU SILO / *SILO WEIGHT :* 4 300 lbs
POIDS DE L'EAU / *WATER WEIGHT :* 99 900 lbs



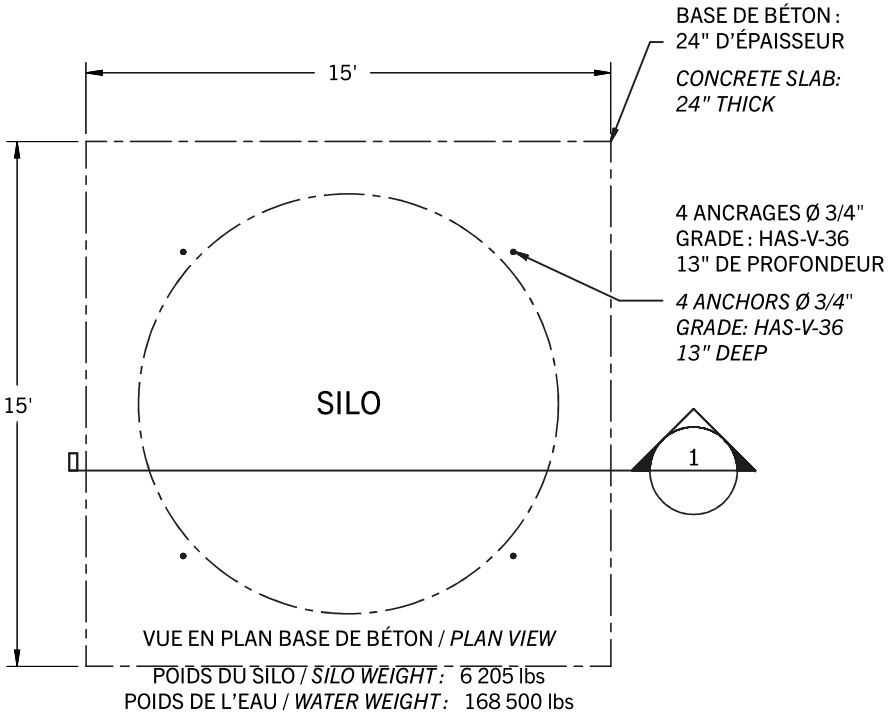
CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

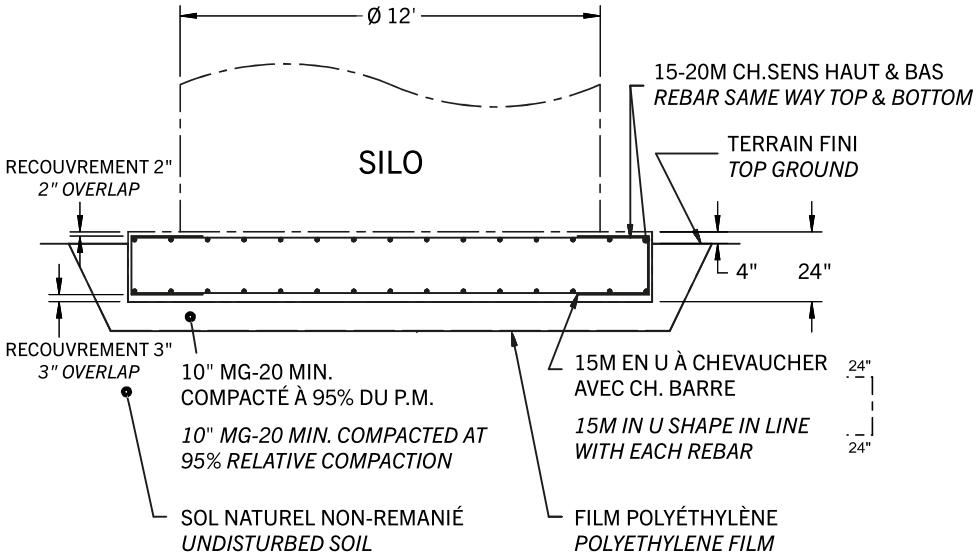
BASE DE BÉTON POUR SILO DE 12 PIEDS DE DIAMÈTRE (20 ET 25 PIEDS DE HAUT)

CONCRETE SLAB FOR 12 FEET DIAMETER SILO (20 AND 25 FEET HIGH)

TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
CARACTÉRISTIQUE DE TENEUR EN AIR (%) *AIR CONTENT (%)*	2 / (4% à 7%)
RÉSISTANCE MINIMALE À LA COMPRESSION À 28 JOURS (MPA) *MINIMAL RESISTANCE AFTER 28 DAYS (MPA)*	25
AFFAISSEMENT (POUCES) *SLUMP TEST (INCH)*	3-1/2" ± 1-1/4"
RECOUVREMENT MINIMAL DE L'ARMATURE *MINIMUM REBAR COVERING*	BAS + CÔTÉS 3" | HAUT 2" *BOTTOM-SIDE 3" | TOP 2"*

CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY*: 100 kPa (2000 lb/pi²)





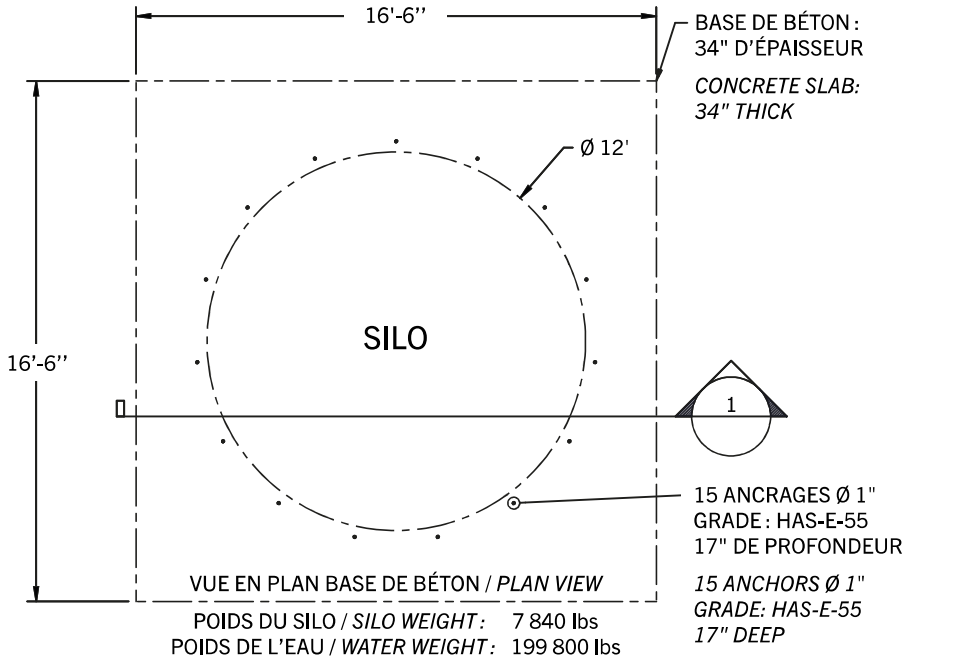
CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

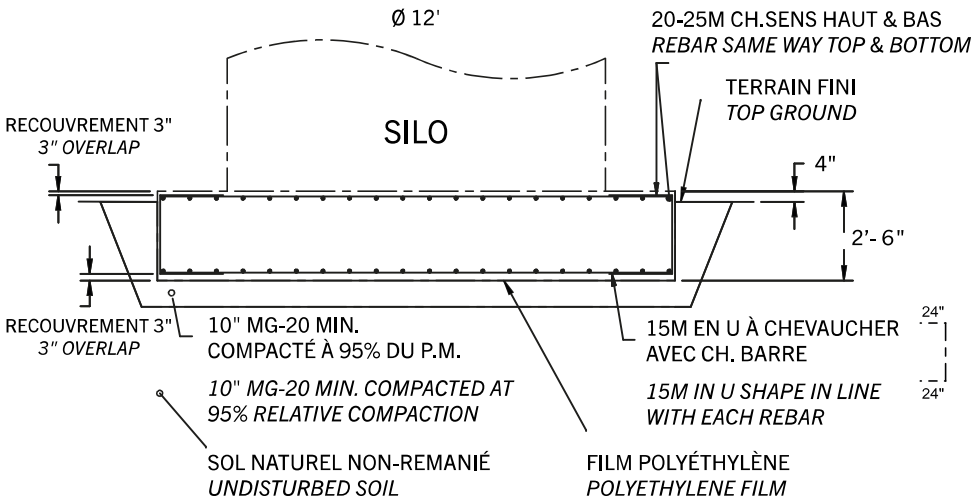
BASE DE BÉTON POUR SILO DE 12 PIEDS DE DIAMÈTRE (30 PIEDS DE HAUT)

CONCRETE SLAB FOR 12 FEET DIAMETER SILO (30 FEET HIGH)

TABLEAU DES CARACTÉRISTIQUES DU BÉTON *CONCRETE CARACTERISTICS*	
USAGE *USE*	BASE DE BÉTON *CONCRETE BASE SLAB*
CLASSE *CLASS*	F-2
DIAMÈTRE MAXIMAL DU GROS GRANNULATS (MM) *NOMINAL MAXIMUM AGGREGATE SIZE (MM)*	14-20
CARACTÉRISTIQUE DE TENEUR EN AIR (%) *AIR CONTENT (%)*	2 / (4% à 7%)
RÉSISTANCE MINIMALE À LA COMPRESSION À 28 JOURS (MPA) *MINIMAL RESISTANCE AFTER 28 DAYS (MPA)*	25
AFFAISSEMENT (POUCES) *SLUMP TEST (INCH)*	3-1/2" ± 1-1/4"
RECOUVREMENT MINIMAL DE L'ARMATURE *MINIMUM REBAR COVERING*	BAS + CÔTÉS 3" | HAUT 2" *BOTTOM-SIDE 3" | TOP 2"*

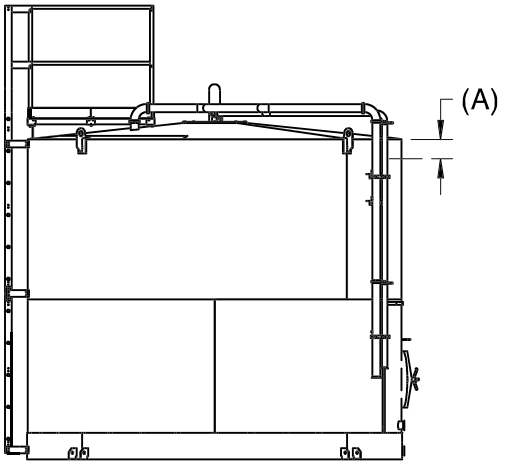
CAPACITÉ DE SERVICE / *LOAD SOIL PRESSURE CAPACITY* : 100 kPa (2000 lb/pi²)





CDL
ÉQUIPEMENTS D'ÉRABLIÈRE
SUGARING EQUIPMENT

LOCALISATION DU TROP PLEIN
OVERFLOW LOCATION



HAUTEUR DU TROP PLEIN
OVERFLOW HEIGHT
(A) = _____pouces/inches