

Silo Information Pack





Thank you for choosing our service. At Tarmac, our goal is to support a consistent and unified approach to Health and Safety, helping us all work together to achieve our shared commitment: Work Safe, Home Safe.

Inside this pack, you will find all the essential information needed to ensure the safe and successful delivery of a silo to your site.



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Watch the **Silo Support video** [here](#)

Enter your name and email to watch, then press play

Pre-Delivery Requirements

A silo base may only be installed when:

- A site visit has been arranged for Tarmac personnel to discuss base location and access requirements for silo delivery and refill deliveries
- A site survey is completed (valid for 3 months)

A flat level concrete base should be provided, flush to the surrounding ground and constructed using a minimum C25/30 concrete on well consolidation ground to accommodate a weight of a 35 tonne silo (0.3N/mm²) and protected from extreme adverse weather conditions, flooding and subsidence and a safe distance from excavations.

If a silo base does not meet the minimum specification a Disclaimer will need to be signed

Silo Base Requirements

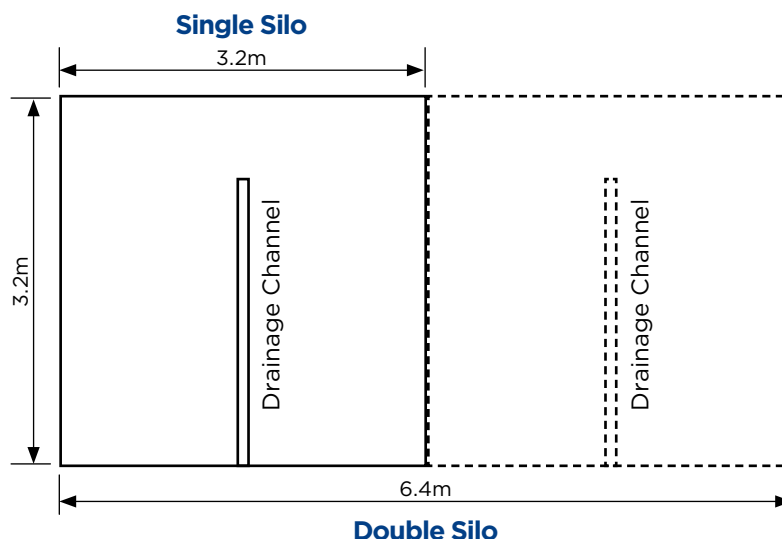
Single Silo Base 3.2m x 3.2m
Double Silo Base 6.4m x 3.2m

Interlocking Pads

– Engineers Report/Disclaimer to be signed prior to delivery

Drainage

– a channel is required in the base to prevent the pooling of water, this must be kept clear of debris



Asphalt bases are NOT PERMITTED. Concrete bases require 7 days of curing time before the silo is delivered.



Silo Information

Empty Weight	3 tonnes
Maximum Full Weight	35 tonnes
Maximum Silo Height	7 metres
Maximum Footprint	2.7 metres

It is advised that silos in areas with high winds or adjacent to sensitive locations (ie. schools or rail lines) are bolted down – specifications supplied on request

It is advisable to avoid constructing the pad at a low level on site as this can lead to flooding

Water and Power Supply

A silo requires:

- A single phase power supply
- A water connection

A full silo induction, given by Tarmac representative, is required by all personnel who will use the silo.

The silo **MUST NOT** be used until the induction has been completed.

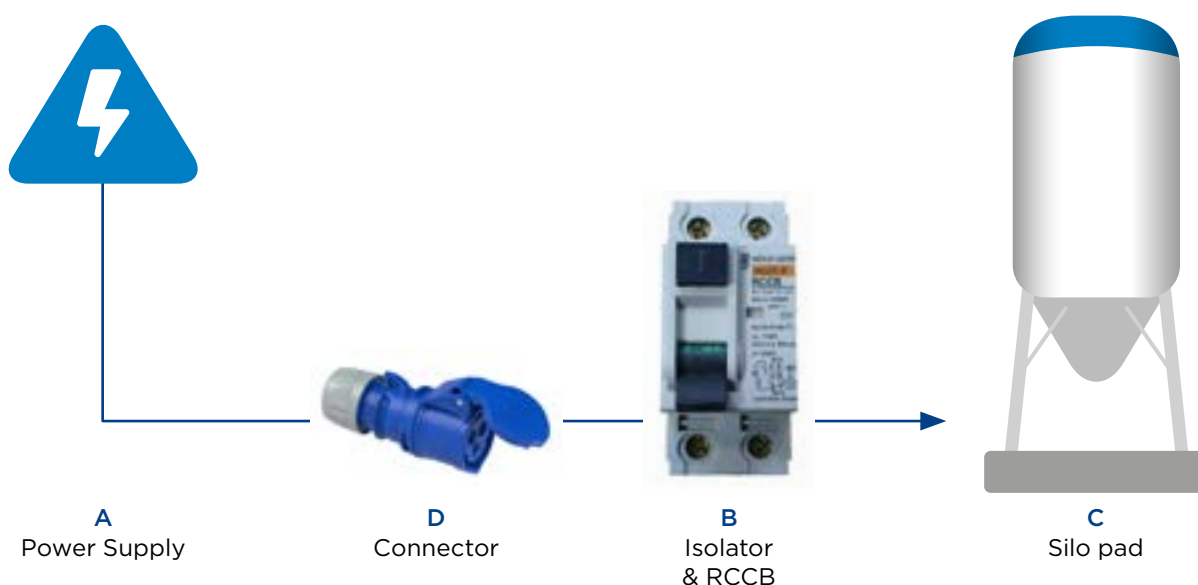
Power Supply

Silos require a single phase 230V 32A supply (A) and, ideally, should be connected directly from the mains. Where no mains supply is available a properly installed and commissioned generator with a minimum 15kVA should be used per silo – with no other equipment running on this generator.

Supply to silo (C) should be via an isolator (2 pole) & RCCB (2 pole/30mA/40A) – **Merlin Gerin RMG400302, Schneider 23088 or direct equivalent (B)**. This should be located adjacent to the silo pad.

Connection from the isolator/RCCB to the silo should be via a suitable cable (minimum 6mm²) terminated at the silo with a **BLUE** 32A (IP67 rated) Cammando type trailing socket (D). The length of the cable should be kept as short as possible to minimise the chance of damage.

Installation to comply with **BS7671**



A consistent water supply is required for optimum silo use – ideally this should be from a mains water supply. This supply should not be shared with boot/wheel washes etc.

If a mains supply is not available a water tank can be used, this should be of a dark colour, preferably black or be covered with a dark cover – this will limit the growth of algae in the water. Algae can cause issues within the silo and mixer.

PLEASE NOTE: Clear hoses should also be drained when not in use to prevent this.

To be provided by Customer

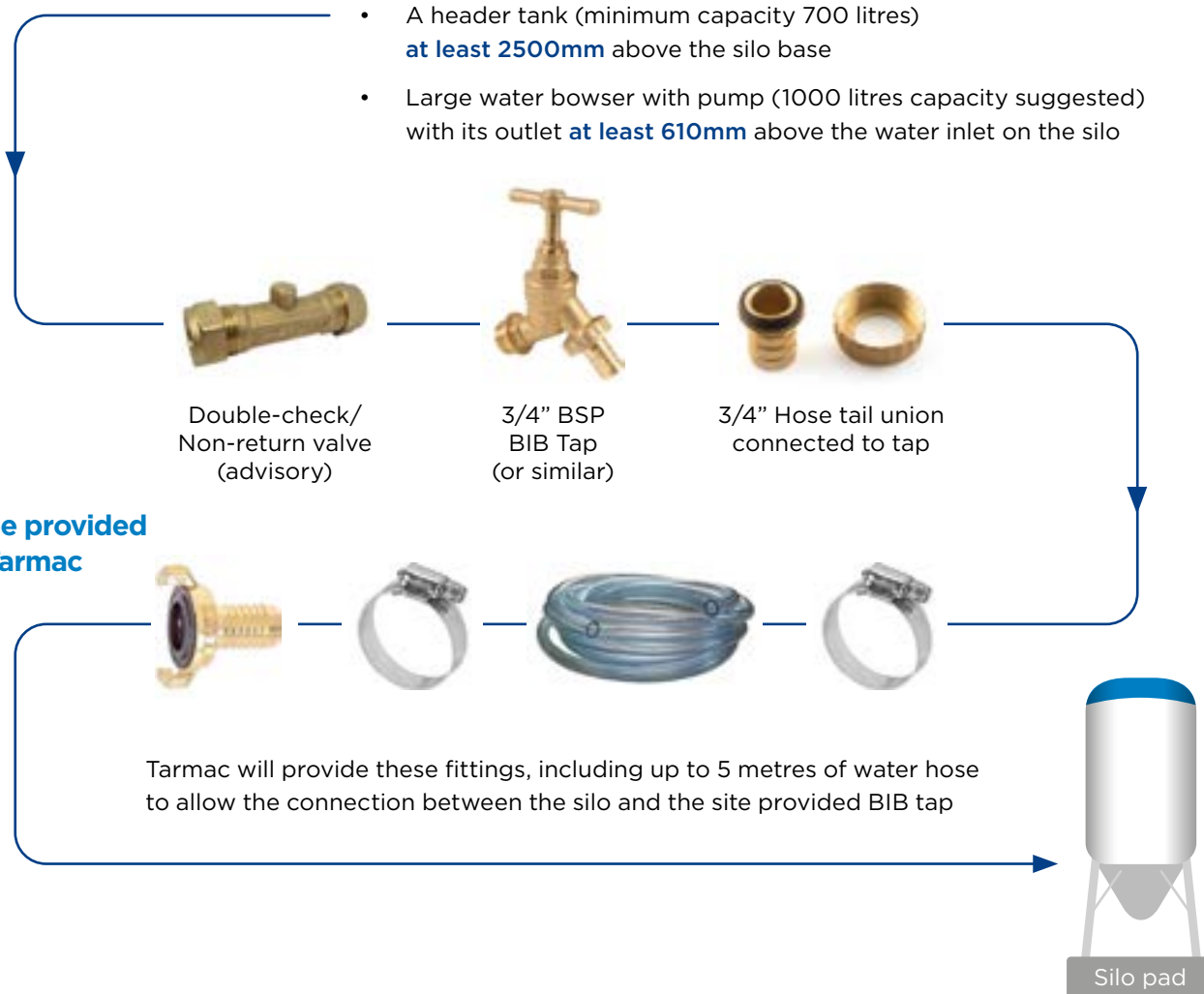
Water Supply

Supply to the silo must provide a **minimum flow rate of 25 litres per minute** to achieve **1 bar constant pressure**.

One of the following is required:

- Mains water supplied via a 25mm blue hard wearing hose
- A header tank (minimum capacity 700 litres) **at least 2500mm** above the silo base
- Large water bowser with pump (1000 litres capacity suggested) with its outlet **at least 610mm** above the water inlet on the silo

To be provided by Tarmac



As Tarmac uses a **DOUBLE CHECK** valve as part of the design to prevent backflow WARS has deemed the process to fall into **FLUID CATEGORY 3**.

Your local water authority may require you to incorporate an air gap barrier into your onsite water supply to prevent syphoning. In this case a water bowser, header tank or other vessel can be used. Tarmac does not have responsibility to supply this equipment but can advise on the type required

Silo Delivery Requirements

Placing the Silo on Site

A lugger vehicle will deliver the silo to your site, several things are required to complete the safe and efficient off-hire of a silo:

- An 8-metre exclusion zone around the lugger vehicle
- Obstruction free access to the silo pad
- Un-restricted access to silo at all times

The area around the silo pad must be of suitable construction, level and fully compact. Once the silo is placed documents must be signed and the successful delivery must be confirmed

When planning the placement of the silo it is important to think about access for the lugger delivery vehicle and the tanker vehicle that will fill the silos once delivered. Articulated tanker vehicles are typically designed for use on highways, not on uneven construction site ground, they require flat, even, solid ground to access the silo.

Please refer to the Tarmac Delivery Considerations document for full details of expectations.

Details of vehicle information can be seen in the tables below, please bare these in mind when considering access to silos:

Silo Lugger				
Height	Length (inc Silo)	Width	Turning Circle	
14' 0"	34' 0"	8' 6"	70' 6"	
4.3m	10.3m	2.6m	21.5m	
Rigid Tanker				
Height	Length (inc Silo)	Width	Turning Circle	
14' 0"	34' 0"	8' 6"	70' 6"	
4.3m	10.3m	2.6m	21.5m	
Articulated Tanker				
Height	Length (inc Silo)	Width	Turning Circle	
14' 0"	49' 2 1/2"	8' 6"	52' 5"	
4.3m	15.0m	2.6m	16m	

*Please note dimensions may vary depending on make and model of vehicle

Post Silo Delivery

Once your silo has been delivered, and before it can be used, all personnel who will use the silo need to receive a silo Induction.

This can be arranged via phone or email, by using the following contacts:



03701 116 116



mortar.internalsales@tarmacbp.co.uk

Following the completion of the induction training an induction certificate will be issued to Site Management.

All silos have Service Tags attached to them – under **NO** circumstances must this tag be removed by site personnel. The tag will be removed by the Tarmac representative once training has been completed.

REMINDER – Site personnel must NOT operate the silo until Induction training has been completed by a Tarmac Representative.

A silo support video can be found scanning the QR code



Ordering a Silo Refill – Important Delivery Information

Single Silo Sites: Require a minimum 48-hour notice for deliveries.

Double Silo Sites: Require a 15-day lead time for deliveries.

Please plan ahead based on your projected site workloads. Before your scheduled delivery, check that the silo can accept a full refill. If it cannot, contact our office to reschedule. Any returned material will be chargeable, and dumping costs may apply.

For double silo sites, we recommend the following usage pattern:

Place a refill order once the first silo is empty, then switch to using the second silo. Continue to alternate between silos to maintain consistent supply and minimise delays.

Silo Maintenance

It is your responsibility to ensure only trained personnel use the silo, to ensure it is operated correctly. A daily and weekly cleaning regime is required to ensure the mixer runs efficiently and downtime and preventable charges are minimised.

A list of Fault Codes can be found below.

PLEASE REMEMBER

Any damage to the silo must be reported immediately to Tarmac

All damages will be assessed for liable cost by a Tarmac Engineer when they attend site

For all silo breakdowns please contact:
mortar.internalsales@tarmacbp.co.uk

Silo Fault Code List

0	Silo OK to Run
1	Stop Button Activated
2	Mixer Motor Tripped Out
3	Pump Tripped Out
4	Vibrator Tripped Out
5	Low Water Pressure
6	Silo Clean Out Required
8	Low Voltage

Please ensure that there is a clear path to the silo area for the engineer, the work area should be tidy and free of any slip/trip hazards. Examples of acceptable and unacceptable work areas are seen on the What Good Looks Like page (page 11).

There must be sufficient room at the rear of the silo to fit a tub for cleaning out the rear chamber.

When an engineer attends site, they will complete a RAG status for the silo work area:

RED
STOP ASSESSMENT required

AMBER
Silo area requires improvement but is safe to work on

GREEN
Area in good condition

If your site receives a **RED** card you will be required to rectify issues and provide photographic evidence before work or silo refills can continue. Charges may be applied for call-outs/failed deliveries due to a **RED** status.

Please send any photographic evidence to mortar.internalsales@tarmacbp.co.uk

Silo Maintenance

Silo Cleaning Responsibilities

It is the customer's responsibility to ensure that all silo(s) are maintained according to the Daily and Weekly Cleaning Schedules. This is essential to maximise the lifespan of the silo components and to prevent avoidable damage. Failure to follow these schedules will result in additional charges being applied to the customer.

Daily Cleaning Schedule

- After every cycle where the interval between pouring tubs exceeds 15 minutes, the silo must be cleaned.
- To do this, ensure the butterfly valve is in the down position and continue running the silo until clear water is seen coming from the mixer.

Weekly Cleaning Schedule

- At least twice per week, the mixer must be stripped down and any build-up of material removed from the screws.
- This prevents unnecessary wear, improves efficiency, and allows the customer to inspect the screws and report any signs of wear.
- Where possible, we recommend carrying out this procedure more frequently than the minimum requirement.

Important Notes

- Silos that are cleaned regularly will operate more efficiently and have an extended lifespan, reducing the likelihood of additional charges.
- Silos that are not cleaned regularly will run inefficiently, suffer reduced lifespan of wearable parts, and may sustain further damage—all of which will be chargeable.
- Both schedules will be demonstrated during induction and are also available in the Silo Support Video.

Failure to follow these cleaning schedules will result in avoidable downtime and chargeable repairs.

Watch the Silo Support video here

Enter your name and email to watch, then press play

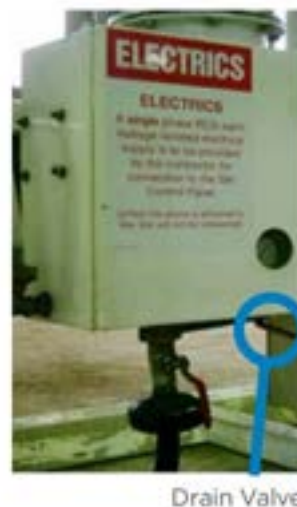
Silo Frost Alert

Your silo mortar mixer needs to be disconnected from the main water supply and drained in the way described and demonstrated in the initial silo induction training. This is VITAL to the efficient operation of the mixer and MUST be done at the end of each working day, or when the silo is likely to be left unused for a long period of time.

M-TEC D50



WAM WETMIX



Follow these steps to ensure the best results for your unit:

- Your site mains water tap must be closed off and water pipe disconnected from water cabinet
- Release drain valve(s) on the underside of water cabinet and disconnect water pipe from water cabinet to mixer barrel. Refer to picture for model compatibility
- Press **START** button or **DRAIN** button on control panel and hold for 10 seconds. Press **STOP** button on front control panel when water stops draining
- During cold weather standing water will freeze and can exert considerable hydraulic pressure inside even the strongest looking components of the silo water delivery system.
- It can easily fracture or deform these parts whether they are made from plastic, brass or steel, which will cause the mixer to stop functioning.
- Components which are likely to be damaged/ affected by frost and ice are: pressure regulator valve, water pump, pressure gauges, solenoid valve and any of the interconnecting pipe work and connectors.

IMPORTANT

Failure to follow these instructions will result in the malfunction of the unit. In the event of damage resulting from failure to comply with the above procedure, productivity may be adversely affected whilst repairs are undertaken.

Delivery Considerations

Driving
Efficiency
Through Safety,
Together We
Deliver

There are several factors to consider when delivering Dry Silo Mortar to ensure a safe and efficient delivery. Please ensure the following conditions are met before any deliveries take place.

Tarmac strongly advises that reversing alarms are switched **ON** – a Banksman **MUST** be provided if site requires the alarm to be turned off, a Banksman should be provided on all reversing routes as standard

Ground Conditions

- Must be flat and even
- No delivery on steep inclines
- Clearly defined delivery area
- Clear of slip/trip hazards (dried mortar, debris, bricks etc)
- Surface that can support loaded vehicle weight
- Soft ground could lead to vehicle becoming stuck
- No large bodies of standing water



Access

- 5m unobstructed access to silo is required – no delivering through or over fences
- Any walls around silo must have a gap for driver and pipe – stepping over walls/pipe over walls creates a hazard
- Ensure silo can take the full load, silos can hold 33 tonnes, a delivery tanker holds up to 29 tonnes
- No overhead cables in the delivery area



Parking

- Provide a safe and legal area to park
- Separation of delivery vehicle and other vehicles/pedestrians
- No parking on double yellows/restricted areas
- 5m exclusion zone around tanker vehicle during delivery due to the dangers of the pressurised system
- 5m exclusion zone around lugger vehicle during delivery





Tarmac reserve the right to refuse a delivery if driver safety is compromised- the planning team can be contacted on **03701 116 116**

Stop blocks/walls

If a wall is required in front of the silo please ensure that there is a gap big enough for the driver to manoeuvre their pipe through and is close enough to the silo to not exceed maximum pipe length (10 metres). The wall should not pose a trip hazard.



What Good Looks Like

Clear and Safe Access to Silo

There needs to be clear, unrestricted access to the silos for silo engineers and delivery drivers. The silo area needs to be clear of debris and slip, trip and fall hazards. There should be no standing water in the area, a drainage channel can help to prevent this. Any build up of material should be removed.



Exclusion Zone/Obstructions

There should be no obstructions overhead or to the side of the silos. The lugger and tanker vehicles require an exclusion zone of 5 metres around the entire vehicle.



Silo Overturn Risk

Under **NO** circumstances should excavate or dig around the silo area. Any trenches near to the silo can increase the risk of silo overturn. Silos weigh up to 32 tonnes, this can lead to ground collapse.

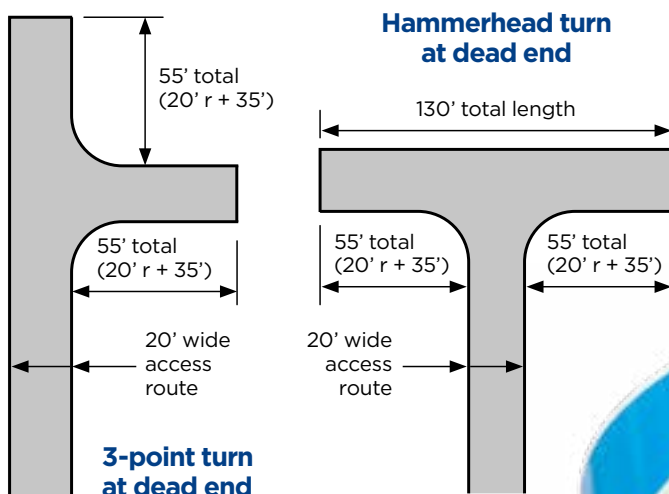
Silo Collection

The situation at your site may change during the build process, the access may be different as houses are being built. Please ensure that when your silo is due to be collected that access is suitable for the lugger vehicle.

Please ensure the ground is suitable for the vehicle, weather conditions may affect this.

The ideal scenario for access to the silos (for both luggers and tankers) is the T (hammerhead) configuration shown below. This allows the driver to have clear vision during the entire manoeuvre

Please ensure that the collection paperwork is checked and signed before the driver leaves site



Before your silo can be collected there are several things to check:

The silo **MUST** be completely empty to avoid returned material charges & aborted collection charges

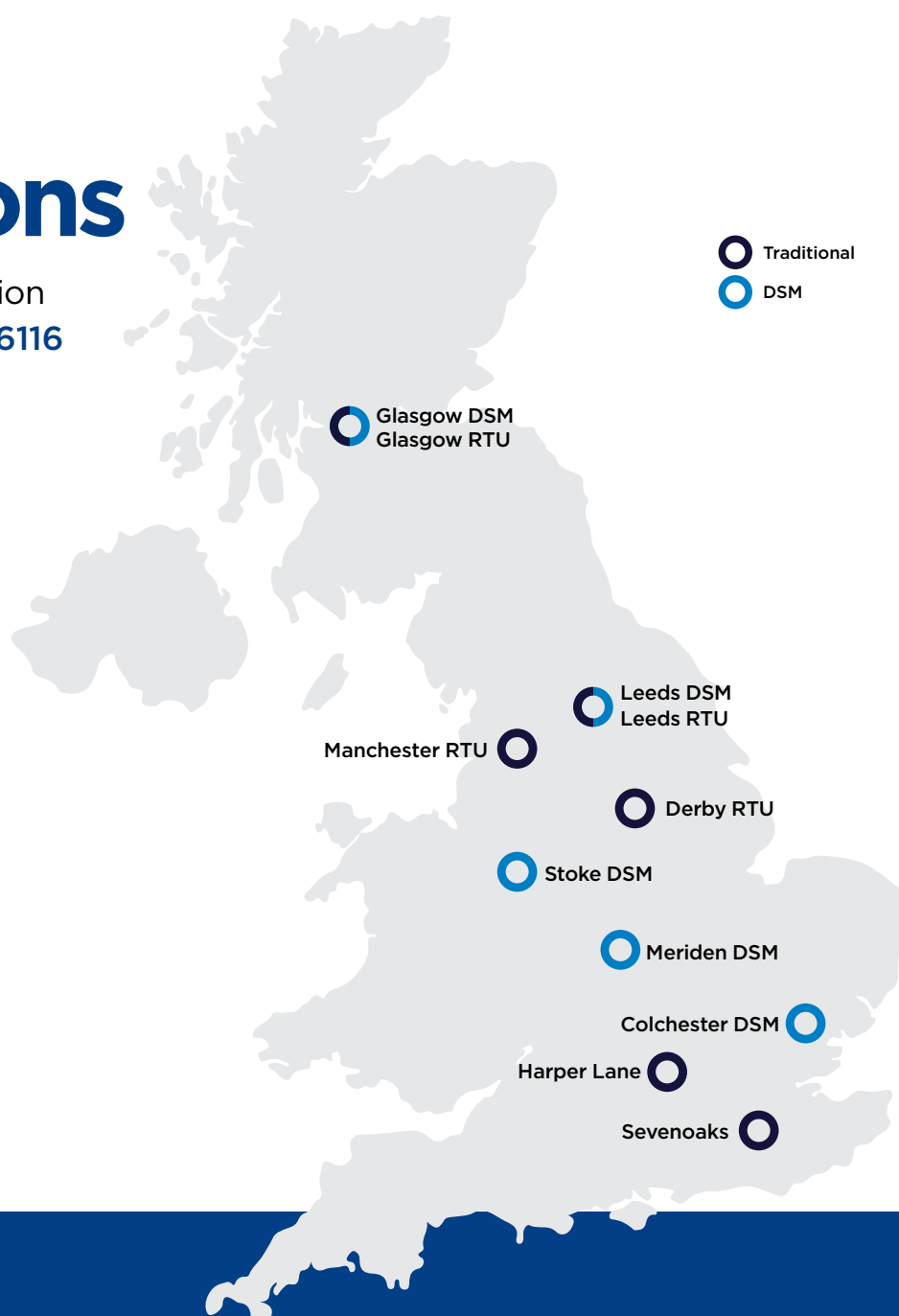
The area around the silo must be kept clear on the day of collection to allow lugger access

Silo **MUST** be fully assembled; drivers will not attach parts before off-hire



Mortar Locations

For further information
please call **0370 111 6116**



Glasgow DSM

Grays Road
Uddingston
Glasgow
G71 6ET

Meriden DSM

Cornets End
Lane Meriden
Coventry
CV7 7LG

Leeds RTU

Knowsthorpe Lane
Cross Green
Leeds
LS9 0PF

Harper Lane

Harper Lane
Radlett
London
WD7 7HX

Leeds DSM

Knowsthorpe Lane
Cross Green
Leeds
LS9 0PF

Colchester DSM

Warren Lane
Stanway
Colchester
CO3 0NN

Manchester RTU

Langley Road
South Pendleton
Manchester
M6 6JH

Sevenoaks

Bat and Ball Road
Sevenoaks
TN14 5SR

Stoke DSM

School Lane
Croxdon
Stoke on Trent
ST10 1RF

BP Head Office

i10 Railway Drive
Wolverhampton
WV1 1LH

Derby RTU

Bellington Hill
Elvaston
Derby
DE72 3FF



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WE STAND TOGETHER TO
REINVENT
THE WAY
OUR WORLD
IS BUILT