

# SWALE SCAFFOLDING LTD

## Swaledek Fall Prevention & Working Platform System

*Training Manual & Installation Guide*



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## Introduction

Swaledek provides an innovative fall prevention and working platform. With the Swaledek there is no pressure applied on the wall-plate or brick-work as would apply with a safety net and the system relies on support from the floor using the walls and bracing gates solely for lateral stability. The system is not restricted to maximum spans and areas before becoming ineffective. Swaledek can be erected to an unlimited area within an enclosed zone. The strength of the system is derived from supports at every panel corner on posts (legs) supported off the floor slab or timber lining.

The decks (panels) and components of the Swaledek are made of durable hardwearing plastic that are water, rot and UV resistant, non tear or susceptible to most chemical damage, durable in handling and low in maintenance costs.

The Swaledek creates a useful working platform for placing of trusses, concrete beams and the building up of internal and external block / brick work.

### Specifications of Swaledek

Swaledek Fall Prevention & Working Platform System has been tested in accordance with EN 12811-1:2003 to safely withstand 2.5kN / m<sup>2</sup> loading and conforms to a Class 3 Platform.

It has been tested under ACR (M) 001:2005 Test for fragility of Profile Sheeted Roofing Assemblies, Soft Body Impact Test of 45kg drop test of a 300mm wide sand bag from 1200mm height and a Hard Body Impact Test of 45kg drop test of a steel bar from 1000mm height.

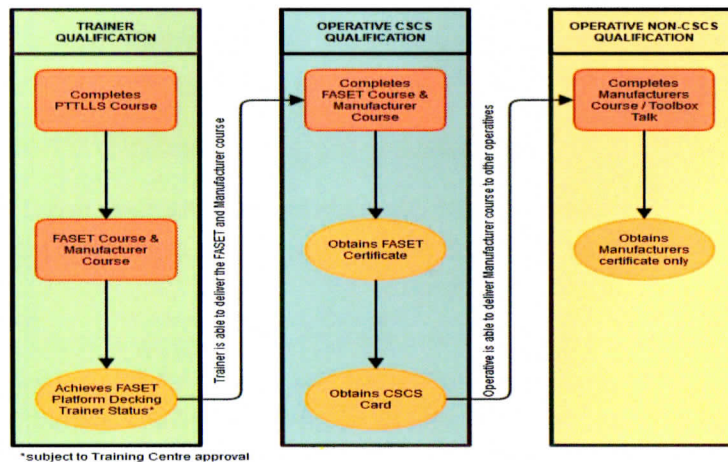
## Competence

Swaledek is to be assembled by two operatives (minimum), which must include at least one person who is trained in the Swaledek system.

To install/dismantle & inspect the Swaledek you must be Trained.

## Training Routes Available

1. Toolbox Talk type training which will result in a Manufacturers certificate of attendance only.
2. CSCS Blue Skilled Worker Card—Endorsed with Swaledek on the rear of the card. (This can only be obtained with Swale Scaffolding Ltd's trainers for Swaledek.)



## Assembly on Site

Swaledek is assembled using two operatives, starting in one corner and working away in both directions until the area is filled. Both people work at ground level and there is no need to access onto the deck itself apart from for final inspection by the installer, therefore the fall risk is eliminated in every case.

Swaledek can be erected on any floor with a flat surface, if used on upper floor joists, either the final floor covering should be laid or a covering of suitable temporary boarding. Stairwells should be covered in all cases.

Loading out of the plot should be done once the plot has been identified and confirmed that it is ready for installation of the Swaledek.

- Check all brick/block work is cured and area is clear/clean.
- Place your components against the wall where required
- Place all collars and feet on each end of the legs.
- Keep your gates in colours so that it is easier to identify what gate you require.

*In some instances it may be necessary to stack some materials outside the room for convenience of safety.*



## Personal Protective Equipment

When installing / striking the Swaledek system you will require the below listed PPE for safety.

A specific risk assessment and method statement (RAMS) must be in place prior to commencing any works on site. These are required to be signed by all operatives carrying out the works to confirm receipt & understanding of the works you are about to undertake.

Please ensure that you work to the RAMS in place. If for any reason you are unable to complete the works as per the RAMS then you stop work immediately, go to a safe area and contact your Line Manager for further guidance/instruction.

PPE YOU will require:

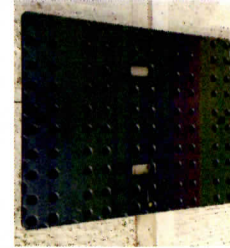
- Hard Hat
- Steel Toe Capped Boots
- Hi Vis-Vest / Jacket / issued clothing
- Gloves
- Safety Glasses (For dismantling purposes or erection purpose if materials have not been cleaned prior to re-erecting on site)

Ensure you wear your PPE in-line with your training and instruction given.

In all cases, the wearing of the above PPE is mandatory whilst on-site.

## Components / Items of Swaledek

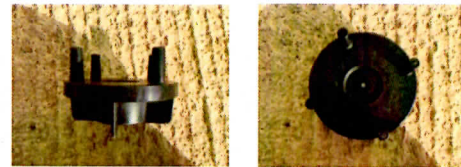
- Panel: 1m x 1.2m x 0.47mm (Weighing 10.5kg)



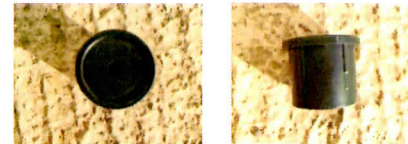
- Leg: 63mm OD x 2m x 4mm thick (Weighing 2.2kg)



- Collar: 150mm Dia x 50mm (Weighing 0.19kg)

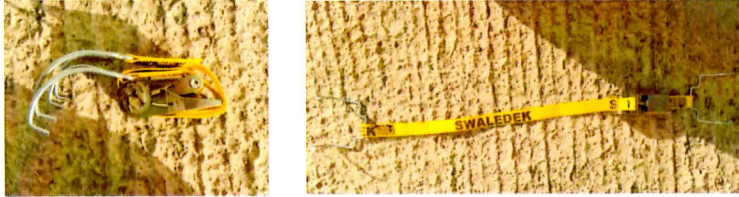


- Foot / Base Plate: 100mm x 50mm (Weighing 0.07kg)



### Components / Items of Swaledek Continued

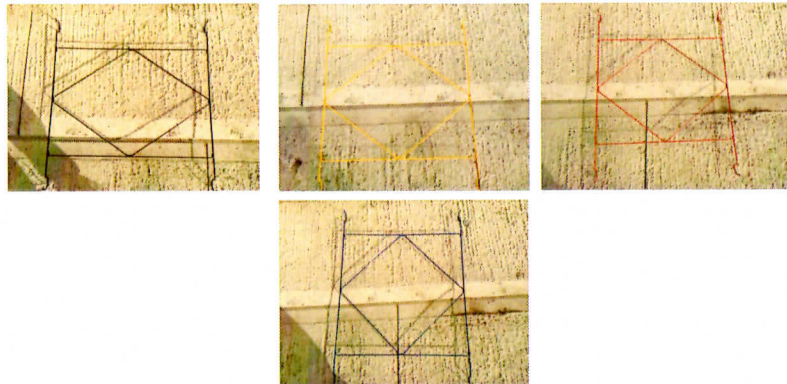
- Ratchet Strap: Assembly (Weighing 0.42kg)



- Expanding Ratchet: Assembly (Weighing 0.58kg)

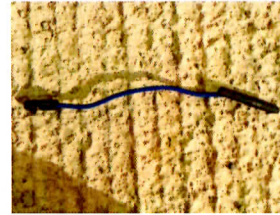


- Stabiliser Gates: 900mm Black (Weighing 1.5kg)  
1m Yellow (Weighing 1.5kg)  
1.1m Red (Weighing 1.5kg)  
1.2m Blue (Weighing 1.5kg)

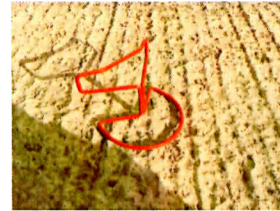


### Components / Items of Swaledek Continued

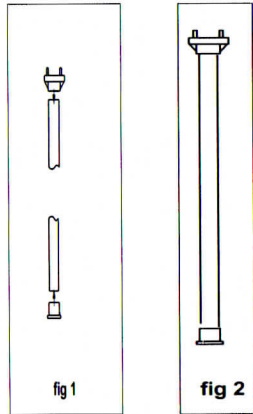
- Bungee Ties: 12mm (Weighing 0.003kg)



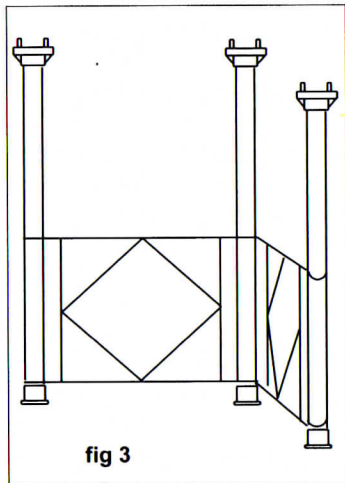
- Wind Clip: (Weighing 0.36kg)



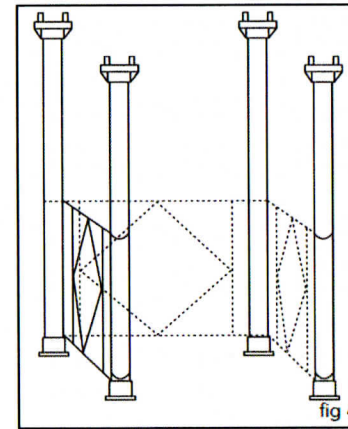
### Swaledek Assembly Instructions



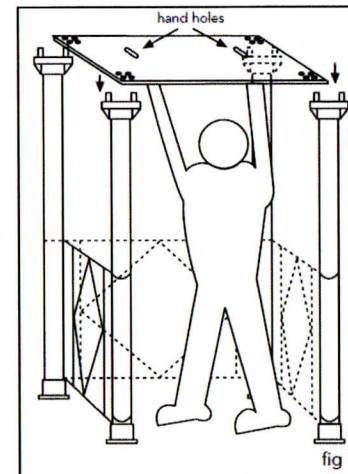
Assemble Collar and Foot to the leg.



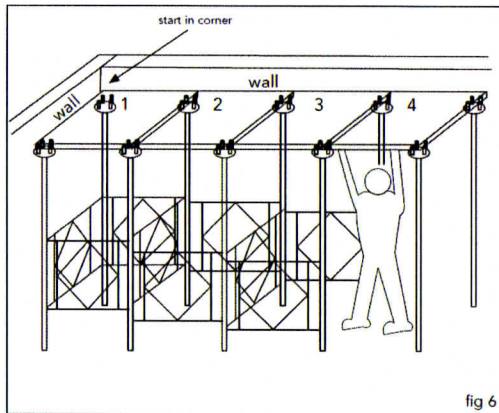
Using two people stand up 3 assembled legs and clip in gates.



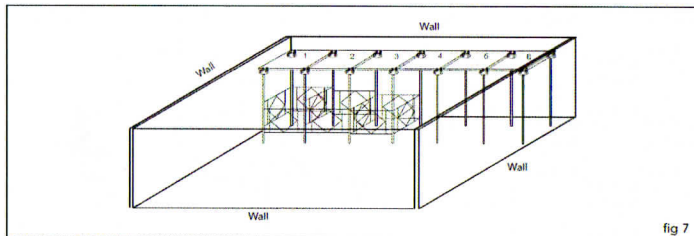
Add fourth leg and gate, legs now stand independent.



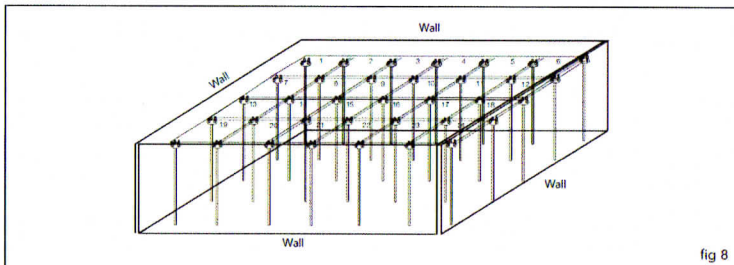
Place first panel onto freestanding legs inserting panel holes into pins on the top collar.



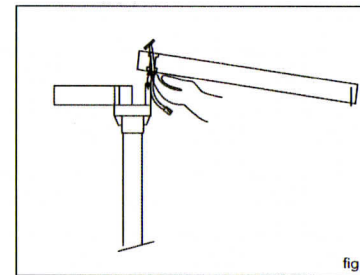
Continue throughout the length of the room in all directions adding more gates as you go along.



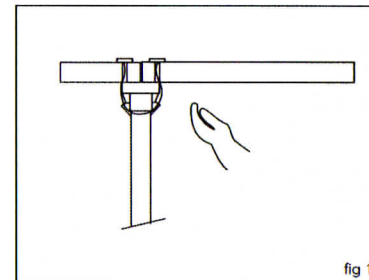
Continue sequence to whole length of wall.



Continue in sequence 1-24 until whole area is covered wall to wall (area shown above is example only).

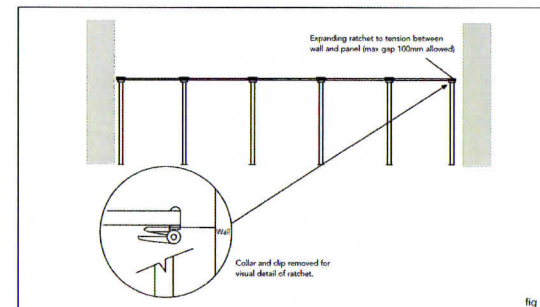


Lift up one panel and fit bungee tie with toggle through same hole as fits the collar and replace panel.



Wrap hook end of bungee around leg just below the collar and hook back onto the bungee.

Any panel connecting to a collar must be fastened with a bungee tie.



Once the panels are fully erected, place the expanding ratchets to one wall with the opposite wall touching the panels.

*(Ensure all bungee ties are in place before tightening the expanding ratchet).*

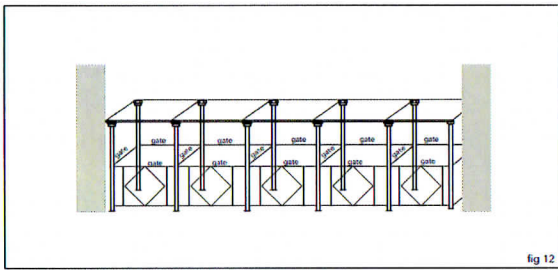


fig 12

Once the system is complete with all components, and held firm between the walls, snap into place the stabiliser gates in all directions wall to wall.

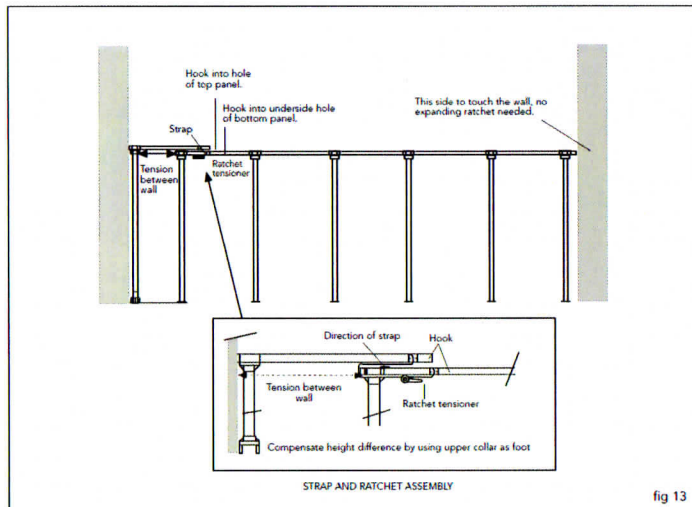


fig 13

Where the panels do not fit the wall length, an overlap panel must be fitted using a standard panel laid above and in the same direction as the panels below. In some cases, it may be necessary to change the direction of the panel if there is a protrusion on the wall.

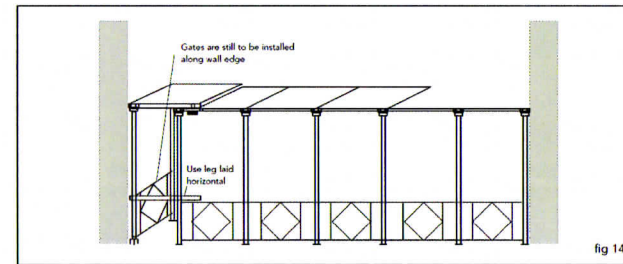


fig 14

Tie the end leg to last gated section using bungee ties (2 to each leg) to restrict movement to end leg.

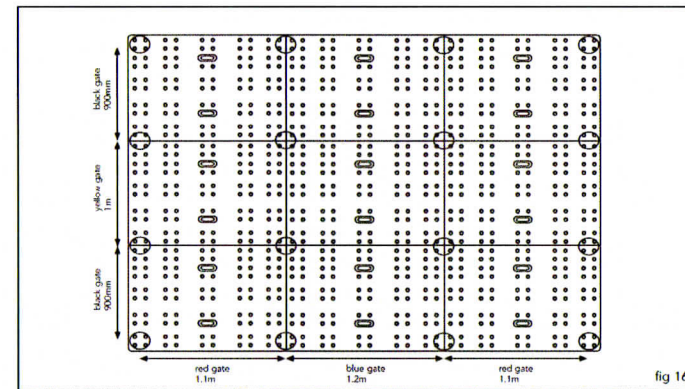


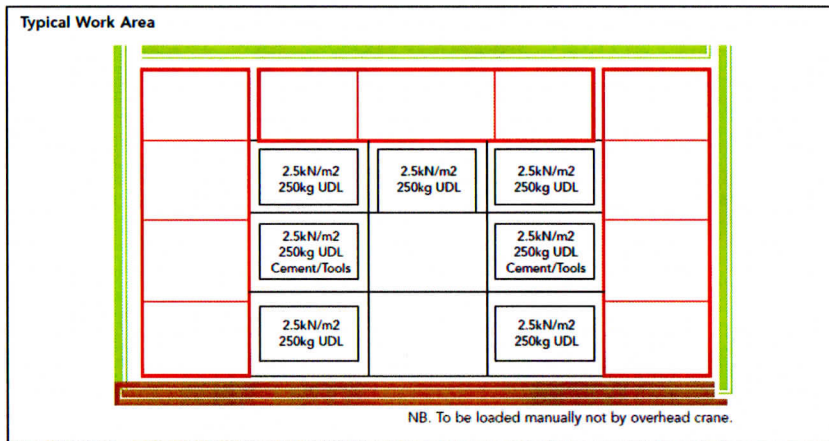
fig 16

The collars on the ends of the system are fitted into four holes on the panel and the collar on the middle panels are shared. The legs on the outer edge are therefore 100mm shorter than the inner legs in both directions. There are four different sized of the gate that are needed in this situation as shown above.

*To identify the different sized gates, they have been coloured separately.*



## Loading Detail



A 15 stone person is approximately 100kg, therefore two operators walking and stepping onto the work area with tools and laying blocks, (red area) to access the (green walls) with the blocks/tools etc. required for construction load as a (UDL) on the inside panels.

## Pre-Handover Inspection

Prior to handing over the completed installed system to the Client, ensure that you inspect the structure by checking the following items:

- Check all panels are supported on all four corners by a leg.
- Check all legs are fitted with base plate and collar.
- Check all bungee ties are fitted.
- Check that all legs are plumb.
- Check the structure does not sway and is tight between a minimum of two opposite walls, preferably four walls.
- Visual inspection to see all panels are sitting flat on the top side of the structure.
- Check that there are no components sat on the ground / left in the plot that are not required / been installed.
- Check that there are no gaps greater than 100mm from any wall.

Once you have inspected the structure and the installer is satisfied with the stability, the installer is to produce a handing over certificate which must be signed by both the installer and the Client and then issued to the Client.

Once the hand over has been completed, it is the responsibility of the Client or their representative to check the system on a daily basis, using the check list above prior to it being used to ensure the stability has not been compromised, i.e. damaged components, un-authorized alterations, adverse weather damage.

### Dismantle Procedure (STRIKE)

Prior to dismantling the system you must observe the following;

- Check the structure above to ensure any debris/articles have been removed.

If the structure is not free from debris, you must **not** dismantle until the area has been cleared.

Once the area is clear the operation of dismantling can be carried out in the reverse sequence of how it was erected, this is by starting in the last corner finished, working in rows, and finally back into the start corner.

When dismantling the system, it is important that all material is stacked in its own right, i.e. the same colour of each gate is stack individually and on their own pallet with the hooks all facing one way, legs are stacked within stillages etc.

Material can then be stacked either on a gantry for mechanical handling or transported outside the building and stacked onto the delivery / collection vehicle.

Please make sure that you wear your eye protection at all times whilst dismantling the system.

### Daily Pre-use Inspection Check List

Before anyone enters onto the top of the erected Swaledek system, they must first carry out a visual check from underneath that there are no materials laid on the ground and that all legs are plumb and all panels are flush to each other.

Once this has been carried out you can then enter the top of the Swaledek and carry out your tasks.

If you find that when you are carrying out a visual inspection that something is wrong, DO NOT enter the platform and speak to your Supervisor or Site Manager for further clarification.

### Weekly Inspection Check List

- Check all panels are supported on all four corners by a leg.
- Check all legs are fitted with base plate and collar.
- Check all bungee ties / wind clips are fitted.
- Check that all legs are plumb and all stabiliser gates are fitted.
- Check the structure does not sway and is tight between a minimum of two opposite walls, preferably four walls.
- Visual inspection to see all panels are sitting flat on the top side of the structure.
- Check that there are no components sat on the ground. This is normally a good indication if something has been removed or not.
- Check that there are no gaps greater than 100mm from any wall.

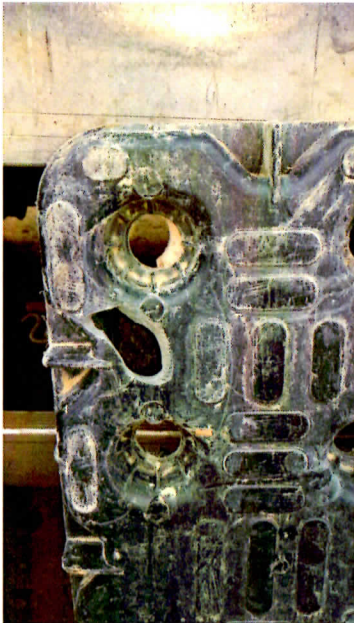
### Inspection of Components Routine

Inspection of the individual components can be carried out on site or back at the depot depending upon if materials are to be returned to the depot or to stay out on site for continuous use.

All components are to be checked and inspected for damage following use.

Check for any debris; bricks, blocks, scaffolding or timber (timber may contain nails, so due care and attention is to be used).

Make provisions for striking, segregate and remove all defective material from site for recycling.



Damaged Panel

### Faults / Damaged Materials

When inspecting the materials, you need to check the following:

- Damaged, cracked panels (See page 20)
- Damaged Base Plates & Collars (missing pins / cracked)
- Damaged legs (split down the leg)
- Strap & ratchets & Expanders (check webbing not cut, frayed)
- Bungee ties / wind clips (fraying, cuts)
- Stabiliser gates (wire  $\diamond$  is still welded to the frame, no bending or twisting in the wire)

### Damage Caused by?

When inspecting for faults and they are found, it is useful to understand why these faults have occurred.

- cracked / splits (impact / overloading?)
- Cuts (power tools / joinery works on the platform)
- Penetrations (nails etc.)

### Care & Storage of Materials

If not already carried out on site, all materials are to be returned to the depot and placed in quarantine until a thorough inspection has been carried out on all components.

Once this has been completed and the material has been washed down (where applicable), the materials can be stacked / stored in their relevant sections ready for further use.

All materials that have been found to be defective are to be placed in quarantine and sent to the recycling centre.

- Palletise all panels in stacks of no higher than 30 and secure with a red strap.
- Stack all legs in stillage's (collars & feet removed)
- Place all collars & feet in their separate white sacks
- Place all strap & ratchets and expanders in their separate white sacks.
- Place all wind clips and/or bungee ties in their respective white sacks.
- Stack all gates in their respective colours on pallets with all hooks facing the same direction.
- Place all components stored in bins or sacks under cover.

### Company Contact Details

We can provide several services for the Swaledek, hire, sale or supply, erect & dismantle, contact details below:

#### **Hire & Sales:** Swale Scaffolding Hire & Sales Ltd

Gatherley Road Industrial Estate

Brompton on Swale

RICHMOND

North Yorkshire

DL10 7JQ

Tel No. 01748 812777

Email: yvonne@swalegroup.com

#### **Contracts:** Swale Scaffolding Ltd

Gatherley Road Industrial Estate

Brompton on Swale

RICHMOND

North Yorkshire

DL10 7JQ

Tel No. 01748 812777

Email: sarahfb@swalegroup.com

**Notes**