

FirstShield Tree Protection Round Top Panel Frame Kit 6.4m Wide TREE-KIT-0010

FirstShield Tree Protection Temporary Panel Frame Kit 6.4m Wide - No Brace TREE-KIT-0020

Operations, Maintenance & Installation Manual

Proudly Compliant with:











Proud to work with our partners





















This manual provides a comprehensive overview for the installation, operation, and maintenance of the FirstShield Tree Protection Round Top Panel Frame Kit (6.4m wide) TREE-KIT-0010 and FirstShield Tree Protection Temporary Panel Frame Kit (6.4m wide) - No Brace TREE-KIT-0020. This system is designed to establish a robust protective barrier around trees on construction sites, ensuring compliance with the recommendations set out in BS 5837:2012 'Trees in relation to design, demolition and construction.'

Disclaimer: This guide is for informational purposes only. The installer is responsible for ensuring the installation complies with all relevant British Standards, including BS 5837:2012 'Trees in relation to design, demolition and construction', local building regulations, codes of practice, and site-specific risk assessments. While every attempt has been made to verify the accuracy of the content in this guide upon its release, we cannot accept liability for any losses or damages resulting from inaccuracies. All tasks outlined must be carried out by certified professionals. Any deviation from these instructions nullifies any guaranteed entitlement or liability from the manufacturer.

Copyright: The copyright of this guide is owned by First Fence Ltd and is protected at all times. Reproduction of this guide by any means is strictly prohibited without prior written consent from First Fence Ltd.

Contact: For enquiries regarding the installation, operation or contents of the guide in relation to this product please direct your questions to: The Product and Drawing Office Manager, First Fence Ltd, Off Kiln Way, Swadlincote, South Derbyshire DE11 8EA. Or The Product and Drawing Office Manager sales@firstfence.co.uk +44 1283 380054.

Manufacturer and/or Reseller: First Fence Ltd, Off Kiln Way, Swadlincote, South Derbyshire DE11 8EA. www.firstfence.co.uk +44 1283 380054.

Competence: This product must be installed by a person of competence, defined as an individual who possesses the necessary knowledge, skill and experience in the installation of fences and gates.

Liability: This installation guide should be understood and followed before any installation activities commence. If any area of the installation is unclear, the installer must contact the manufacturer, outlined in 'Contact.' First Fence Ltd takes no responsibility for incorrectly installed systems, product, material or components.

1.0 Safety & Tools

Personal Protective Equipment (PPE)

The following minimum PPE is required for installation:

Hard Hat Must be worn



Eye Protection

Must be worn



Safety Gloves
For all material handling



Foot Protection

Must be worn



Risk Assessment

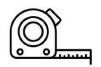
Installers are responsible for completing a site-specific risk assessment and complying with all local risk assessments before starting work. This responsibility includes, but isn't limited to, the following:

Activity	Risk Assessment Requirements and Not Limited to
Breaking ground for post hole excavations	Noise Vibration Manual Handling
Post Installation	Manual Handling
Installation of Fixings	Noise Vibration Working at Height

Tools & Equipment

Tape Measure

For setting out and measuring distances



Post Rammer/Driver

To ensure upright scaffold poles are driven securely into the ground to the required depth of 600mm



Coupler Spanner Required for scaffold couplers

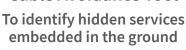


Spirit Level

For plumb (vertical) and level installation



Cable Avoidance Tool





2.0 Pre-Installation

Site Survey & Preparation

Tree and Root Protection Area: Clearly define the tree protection zone (TPZ) based on arboricultural recommendations or local regulations. This system is designed to protect this area.

Ground Conditions

Stability: Assess the stability and composition of the ground where the vertical scaffolding tubes will be inserted. Ensure the ground can adequately support the structure and provide secure anchoring.

Underground Services: Before any digging, identify and mark the location of all underground services (e.g., pipes, cables, irrigation lines) to prevent damage. Use a Cable Avoidance Tool (CAT) and consult site plans if available.

Level Ground: While the system can likely adapt to slight variations, a relatively level ground line will simplify installation and improve stability.

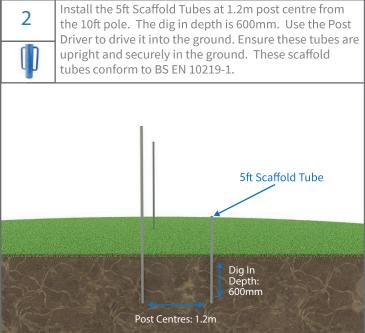
Obstructions: Clear the area of any debris, rocks, or other obstructions that could impede installation or compromise the stability of the structure.

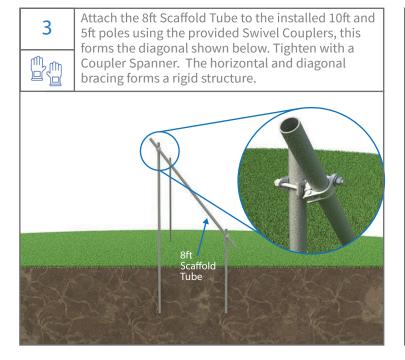
Materials Check

Unpack the kit and verify all components are present and undamaged, checking against the Bill of Materials (Section 4.0). Ensure all components are free from excessive corrosion or damage.

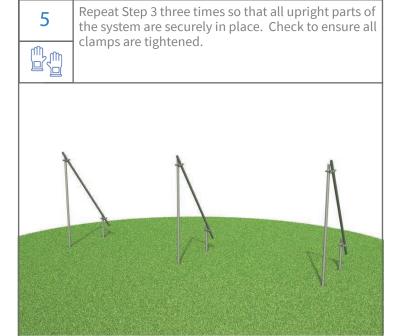
Installation - Full Back-Braced System

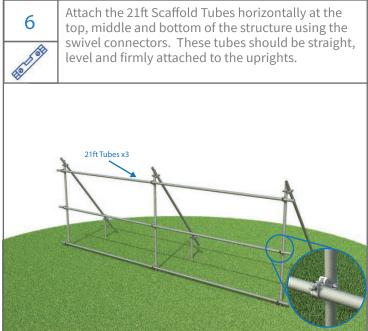


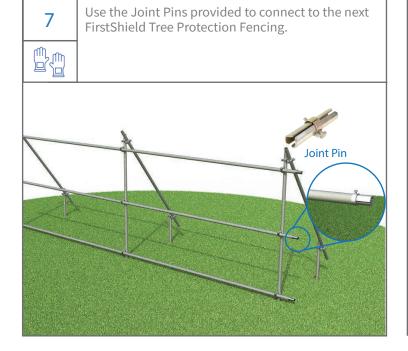














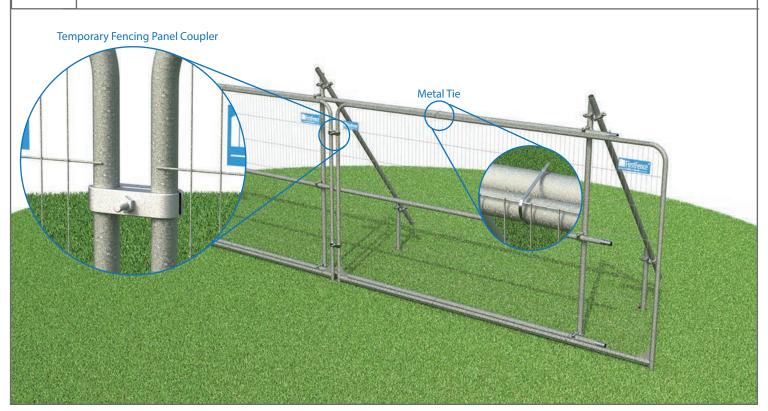
Ensure all coupler bolts are tight as loose fittings

8

9

Attach temporary fence panels to the structure using scaffold couplers and metal ties (use 8-12 ties per panel, at least 2 at each corner and at regular intervals along the top, bottom and sides). Each assembled 6.4m support structure will take approximately 2 temporary panels (each panel is 3.45m wide). Additional tree protection frames can be added to make a structure of the required site length, these frames are attached together with the provided joint pins and couplers.

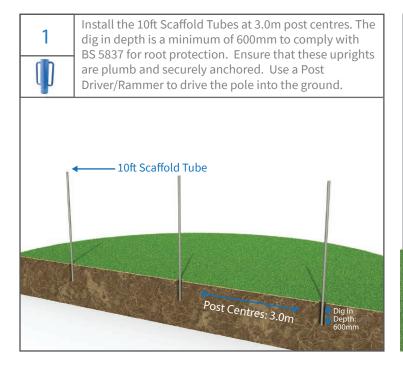


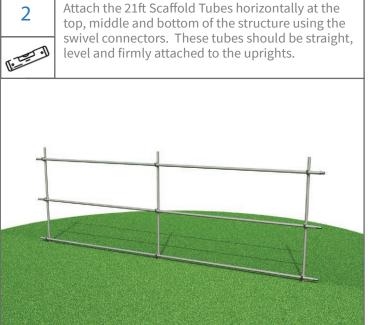


Assembled FirstShield Tree Protection



Installation - Vertical Bracing Only System

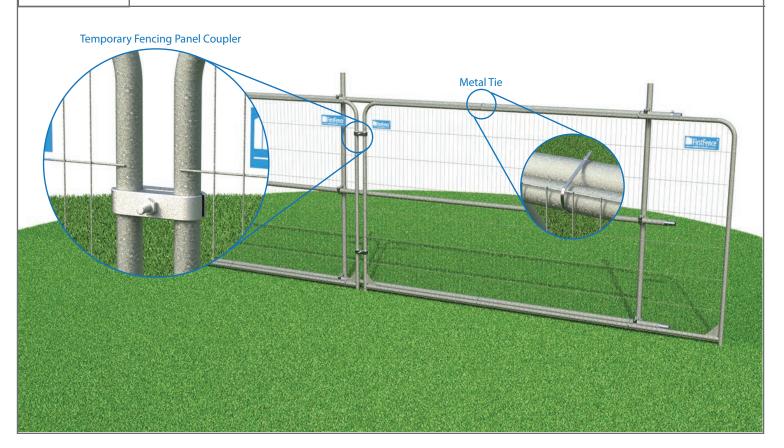




3



Attach temporary fence panels to the structure using scaffold couplers and metal ties (use 8-12 ties per panel, at least 2 at each corner and at regular intervals along the top, bottom and sides). Each assembled 6.4m support structure will take approximately 2 temporary fence panels (each panel is 3.45m wide). Additional tree protection frames can be added to make a structure of the required site length,



4.0 Bill of Materials (Per FirstShield Kit)

Illustration	Component Name	Component Code	Quantity
	10ft Scaffolding Tube	SCAF-TUB-1010	3
	5ft Scaffolding Tube	SCAF-TUB-1005	3
	8ft Scaffolding Tube	SCAF-TUB-1008	3
	21ft Scaffolding Tube	SCAF-TUB-1020	3
	Swivel Coupler	SCAF-FIX-0003	30
	Scaffolding Joint Pin	SCAF-FIX-0019	3

Bill of Materials (Per FirstShield Kit - Vertical Bracing Only)

Illustration	Component Name	Component Code	Quantity
	10ft Scaffolding Tube	SCAF-TUB-1010	3
	21ft Scaffolding Tube	SCAF-TUB-1020	3
	Swivel Coupler	SCAF-FIX-0003	15
	Scaffolding Joint Pin	SCAF-FIX-0019	3

5.0 Installation Sign-Off Checklist

Action	Description	Pass/Fail
Fence Line	Fence is positioned correctly as per site plan, outside the Root Protection Area.	
Post Verticality	All vertical posts are plumb and secure.	
Foundation Depth	Vertical posts are embedded to the minimum recommended depth of 600mm.	
Bracing	All diagonal braces are correctly installed and secure.	
Fixing Security	All scaffold couplers are fully tightened and secure	
Panel Security	Panels are securely attached to the frame with no large gaps	
Site Clean Up	Installation area is clear of surplus materials, tools, and debris	

C:	Ott	D		
Sign	UΠ	νec	laration	:

I hereby confirm the this product has been assembled and installed in accordance with the above requirements and any remedial works have been carried out before the final sign off:

Site Supervisor	Sign Off Date	Relationship to the Client	
Signature			

6.0 Maintenance Schedule

Regular inspection and maintenance are critical to ensure the system remains safe and effective, in line with the requirements of BS 1722-18:2011 for temporary fencing. The person responsible for site safety should ensure these checks are carried out.

Check Area	Recommended Action	Frequency	Reference
General Fence Line	Visually inspect the entire fence line for signs of damage, post movement, or ground erosion near Foundations. Ensure it has not been moved from its original position.	Weekly & After Adverse Weather	BS 1722-18
Structural Integrity	Check all posts and rails for bending, displacement, or damage. Verify that all bracing is intact and secure. Check timber posts (if using) for signs of rot or damage.	Weekly	BS 5837
Fittings & Couplers	Physically check a sample of couplers on each visit to ensure they remain tight. Visually inspect all other accessible fittings for signs of loosening.	Weekly	Manufacturer's Spec
Fence Panels	Ensure all temporary fencing panels remain securely attached to the scaffold frame. Check for any damage to the mesh or frame that could compromise security.	Weekly	BS 1722-18
Steel Condition	Inspect steel components for signs of significant corrosion or damage to the galvanised coating. Clean off any corrosive matter or debris.	Monthly	Manufacturer's Spec
Signage	Ensure any "Tree Protection Area - Keep Out" signs are still in place, legible, and securely fixed to the fence.	Weekly	BS 5837

Take the hassle out of your maintenance schedule

First Fence Limited offers an annual inspection programme for your FirstShield system. Contact our sales team today to include this quote onto your sales order.

high security maintenance @first fence.co.uk