

JET BLAST FENCING – INSTALLATION AND DATA SHEET



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Warning

The Jet Blast Fencing is a proprietary manufactured system by Maltaward Barriers Ltd and must be installed in accordance with the following manufacturer’s guidance and drawings to be compliant with the design parameters and to be within the tolerances for the wind loading calculations appended. The system is designed only to be fitted to our TVBC’s which must be bolted together in accordance with Maltaward Barriers installation procedures.

Jet Blast Fencing that is moved, altered or modified, or is not installed by Maltaward trained operatives may not be fit for the purpose for which it is designed and Maltaward Barriers absolves liability.

The location of the Jet Blast Fence is the responsibility of the Airport Operations Team, where it is essential that the risk of jet blast wash exceeding the maximum 70mph limit has been assessed. Wind loading calculations are based on a maximum of 31.3m/s at 50m from the exhausting planes.

It is the customers responsibility to ensure that the Jet Blast Fence is placed in accordance with the recommendations of ICAO Doc 9157 Part 2 – Aerodrome Design Manual – Taxiways, Apron and Hold Bay values for the design of jet blast walls.

Safety

Installation of the TVBC's is to be carried out by approved and certified installers and equipment.

Operatives are to wear the appropriate PPE. (Gloves, hardhats, steel toecap boots and Hi-vis as a minimum.)

It is essential that every load is assessed prior to lifting to reduce the risk of injury.

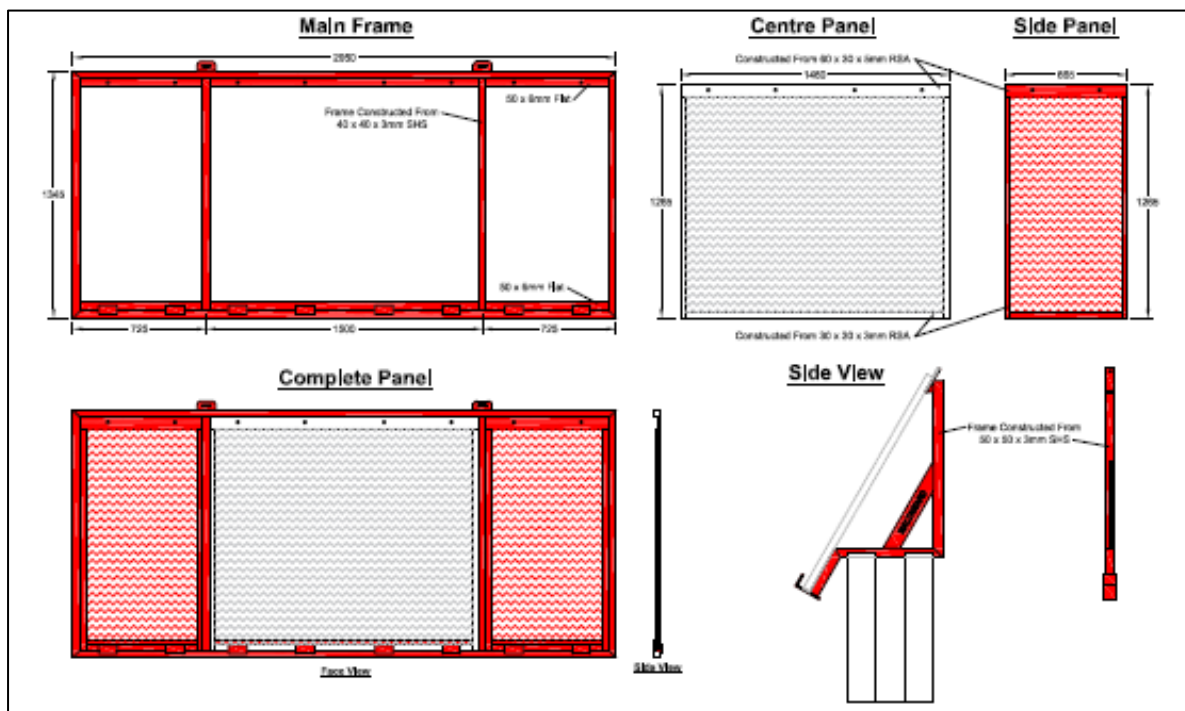
All manual handling should be carried out in accordance with The Manual Handling Operations Regulations 1992 and later amendments.

Installation of the Jet Blast Fence requires a minimum of two installers.

Components

- TVCB's painted RED and WHITE (2,500g)
- 4x TVCB High Tensile Bolts, Washers and Nuts
- 2x JBF (Jet Blast Fence) mounting brackets (10kg)
- 4x JBF M24 100mm HRH 8.8 Galvanised fixing bolts with washers
- 1x JBF Galvanised Main Frame (55kg) fitted with Antiluce fixings
- 2x JBF Red End Panels (20kg)
- 1x JBF White Centre Panel (38kg)

Components are fabricated 3mm SHS, galvanised and powder coated and stacked in purpose made stillages for ease of transportation and storage.



Assembly

Red and White painted TVCB's are delivered with the mounting brackets pre-fitted, reducing the on-site installation time and FOD risk at the airport location. The brackets are bolted in place with two M24 100mm galvanised bolts and washers and tightened with torque wrench/sockets

Stillages containing all JBF components are delivered by the installation team with the TVCB's and offloaded by self-offloading vehicles, either Hiab or Moffett forklift.

TVCB's can be installed by Hiab lorry or Moffett forklift truck with access from the rear of the barrier noting that guarding provision may be required to protect the airside workforce when access is needed to fit the connecting bolts and jet blast fence panels.

TVCB's are to be positioned only in straight lines along the perimeter of the site and interconnected with M24 high tensile bolt/washer sets fitted through the scarf joints.

The following installation of the jet blast fence is undertaken by hand by a minimum of a two-person install team.

Check that the Antiluce clips on the mounting brackets are positioned in the upright position. The main frame is taken from the storage stillages and placed into the lower stowage hooks on the mounting brackets, align the main frame centrally on the TVCB and secure in place with the Antiluce clips through the holes at the top of the main frame. The frame is now securely fitted to the TVCB.

Check that the 9no. Antiluce clips on the main frame are in the upright position, take the Red and White mesh panels from the stillages and drop into the holding lugs on the main frame and ease back into the frame so that they are flush with the frame and the Antiluce clips can be flicked into the closed position. The Jet blast fence is now installed. Further blocks and fence are placed by repeating the sequence.

Pre-hand over Checks

The installation must have a pre-hand over inspection, checking that:

- All TVCB connecting bolts are in place and tightened.
- Mounting brackets are bolted and tightened into the TVCB
- All Antiluce clips are all in place, none are missing or damaged and all are flipped fully in the down position. Damaged or clips that fail to close fully are to be replaced before handover.
- Stillages are loaded for removal from site.
- The site is checked for debris, FOD and that all tools are cleared away.
- Client walk through with handover and signed acceptance by a client site representative.

Moving on site

Our Jet Blast Fence, from an engineering and constructability point of view, easy to modify locally. The individual units, once unbolted, allow for the complete unit (TVCB and JBF) to be lifted by forklift truck, moved and relocated, simply and easily to create access for plant or equipment as required.

Moving on site should only be undertaken by trained staff with the appropriate plant, in order to maintain compliance with the installation safety procedures.

Temporary Works Certificates and Scaffold Inspections

Maltaward Jet Blast Fence is a designed, manufactured propriety system and when installed in accordance with the manufacturer's guidance and installation procedures it is within the tolerances

of the design calculations and wind loadings. It will not require recurring temporary works designs or weekly scaffold checks.

Transportation

The Jet Blast Fencing system is transported direct from the supplier depot with the support brackets pre-installed. Mesh and frame components are stowed in purpose made stillages. Vehicles and Installers are airside passed at Gatwick and Heathrow.

Related Documents:

- Rathbone and Roche Ltd. – Jet Blast Walls Structural Calculations Jan 2019
- Maltaward Blast Fence Drawing

