

## ENGINEERING APPROVAL STANDARD

### EAS 07-0009

## SUNRAY STACKABLE STEEL LOUVRE SYSTEM

**Network(s):** EPN, LPN, SPN

**Summary:** This equipment approval details the Stackable Louvre System from Sunray Engineering Limited for use on the networks owned or adopted by UK Power Networks.

**Originator:** Mark Dunk **Date:** 30/10/2013

**Approved By:** Steve Mockford **Approved Date:** 05/11/2013

**Review Date:** 05/11/2016

This document forms part of the Company's Integrated Business System and its requirements are mandatory throughout UK Power Networks. Departure from these requirements may only be taken with the written approval of UK Power Networks' Director of Asset Management. If you have any queries about this document please contact the originator of the current issue.

### Document History

(The document history notes below are intended as a guide only and may not cover all of the changes. If you wish to make use of this document it should be read in full.)

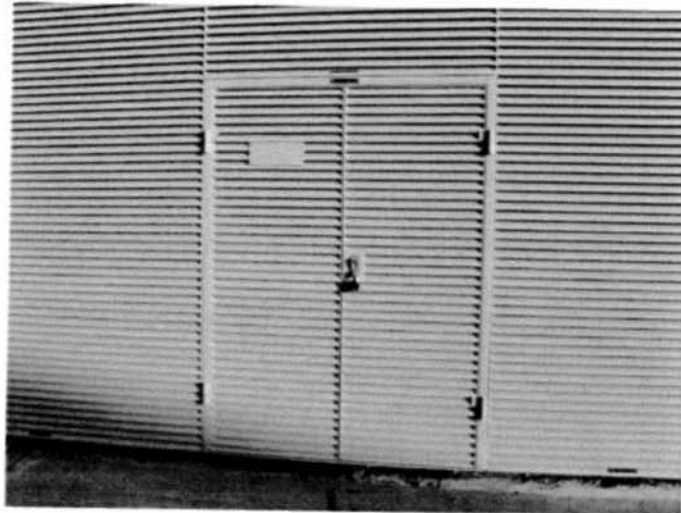
Version	Date	Details	Originator
2.0	30/10/2013	Document reviewed for re-issue	Mark Dunk
1.3	06/07/2012	Document reviewed for publishing on G81 website	Lee Strachan
1.2	13/09/2011	Document reclassified from EA to EAS	Jerry Wells
1.1	15/02/2011	Document rebranded	Peter Rix
1.0	18/03/2010	Original	Geoff Dykes

## Contents

<b>1</b>	<b>Scope .....</b>	<b>3</b>
<b>2</b>	<b>Approved Equipment .....</b>	<b>5</b>
2.1	Manufacturer Details .....	5
2.2	Equipment Details .....	5

## 1 Scope

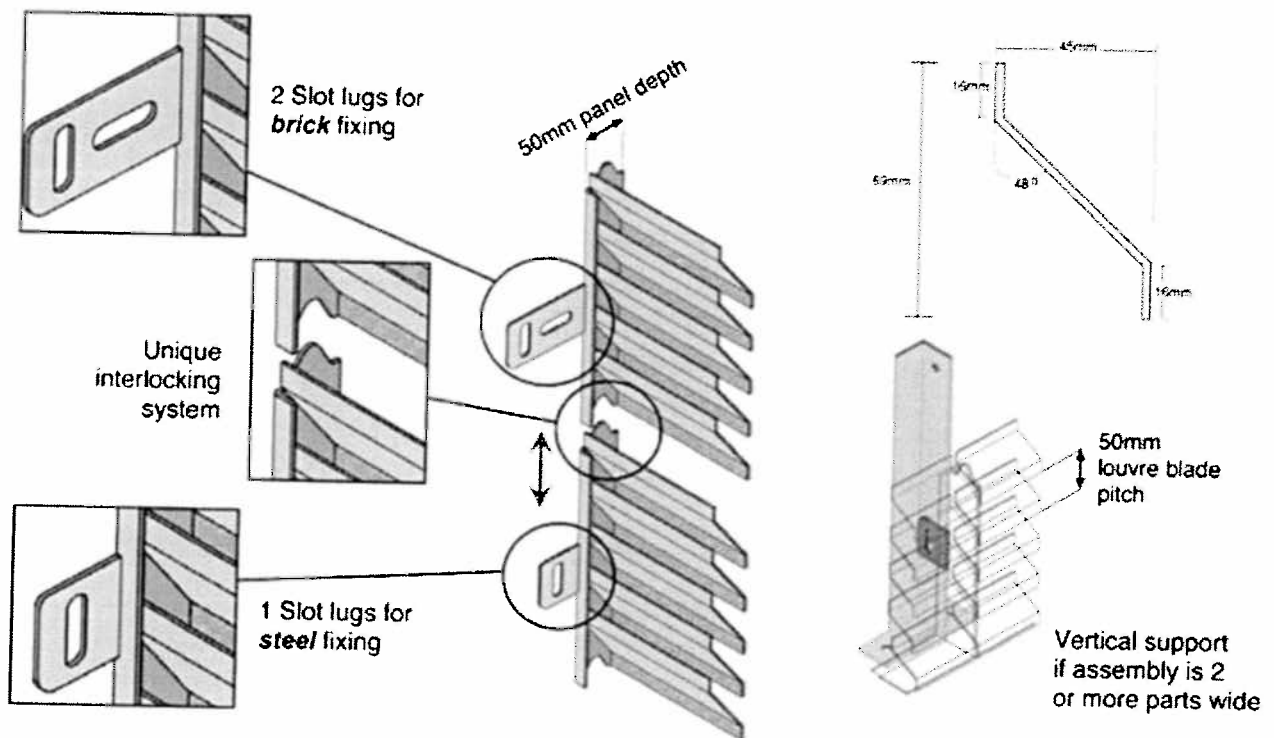
UK Power Networks Asset Management has assessed and approved the Stackable Louvre System from Sunray Engineering Limited for use on the distribution networks within UK Power Networks.



Sunray Stackable Louvre System Shown with Sunray Louvre Door.



Sunray Louvre Door with Stackable Louvre System.



Sunray Stackable Louvre System – Fixing Details.

Substations that are integrated into the structure of a larger building have different thermal heat loss attributes to that of the freestanding brick built substations which are exposed on all four sides and also via the roof. Integral and basement substations generally require an increased amount of louvred area to keep the transformer cool. The standard UK Power Network's substation louvres are constructed of profiled metal louvred blades welded into a supporting frame; being of robust construction this design of louvre is able to resist the effects of a blast/fire within a substation without the louvre blades becoming detached, this type of louvre also provides security from unauthorised entry.

Large steel louvres are heavy, the Sunray Stackable Steel Louvre system has been developed with UK Power Networks to provide a unique 'stackable' louvre system that retains all of the benefits of a welded steel louvre but supplied in smaller unit sizes making handling and installation on site easier and therefore safer.

Due to its adaptable design the Stackable Louvre System can be made to suit varied structural openings and can accommodate both squared and arched brick openings making them particularly suitable for refurbishment and retrofit applications.

The Stackable Louvre System enables substation designers to specify large areas of louvre so as to maximise the ventilation that is available.

Key features of the Sunray Stackable Louvre system are:

- Available in sections up to 2500mm wide with no visible horizontal joints;
- Can be provided with a variety of frame supports: angled, flush, rebated or box frame surrounds options are available to suit site requirements;
- Supplied in manageable sections;
- Designed to provide maximum airflow, approximately 50% free air;
- Fitted with either anti-vermin mesh or blanking plates to the rear to suit various site applications;
- Can be paint primed or provided with a powder coated finish;
- Can be used on many types of industrial buildings, secondary substations, switchrooms etc. where steel louvres have been specified;
- Fully compatible with the Sunray LouvreDoor System therefore providing multiple configurations with regards to matching side louvres and louvred overpanels.

## **2 Approved Equipment**

### **2.1 Manufacturer Details**

Manufacturer:	Sunray Engineering Limited
Manufacturer Address:	Kingsnorth Industrial Estate Wotton Road Ashford Kent TN23 6LL
Telephone Number:	01233 639039
Fax Number:	01233 625137
E-mail Address:	<a href="mailto:sales@sunraydoors.co.uk">sales@sunraydoors.co.uk</a>
Website Address:	<a href="http://www.sunraydoors.co.uk">www.sunraydoors.co.uk</a>

### **2.2 Equipment Details**

Type Reference:	Sunray Stackable Louvre System
Purchasing Numbers:	
Drawing Numbers:	STL / 001
Description:	Steel welded louvre system.