#### **Certification and testing**

The Rossway Safeway Roof Safety Protection system has been tested in accordance with strict criteria laid down by the H&SE. The system must be installed by suitably trained operatives and under test conditions has received the following certification.

Load Test: Proof load was applied in gradual increments

<u>Design Loading 1.5KN/m²</u>

Impact Loading: Testing as detailed in Health and Safety

Executive Specialist Inspectors Report

SIR30 (Test included in BS6206, BS1105)

Test 1 - Impact loading of 45kg dropped

from 1.2m height (energy level 530 joules)

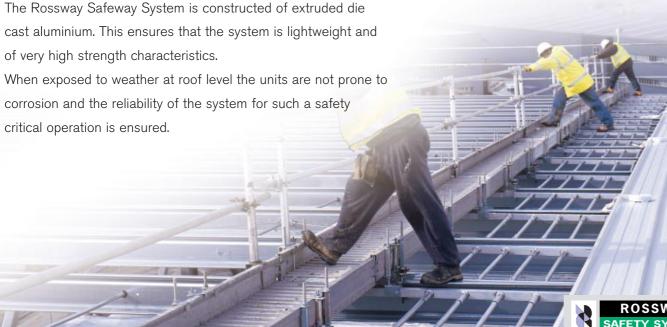
Result - Pass



Test 2 - For additional assurance in the load bearing capabilities the load of 45kg was dropped from twice the stipulated height of 1.2m to 2.4m (energy level 1000 joules

Result - Pass

#### **Materials and Quality Control**



# ROSSWAY SAFETY SYSTEMS ROOFING SAFETY SYSTEMS

#### **ROSSWAY SAFETY SYSTEMS**

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## Rossway Safeway

## Roof Safety Protection System

The Rossway Safeway Roof Safety Protection System is a major breakthrough in providing safer roofing techniques. It gives the Designer confidence of a tried and tested installation system and ensures operatives are protected against falls when installing roof panels.



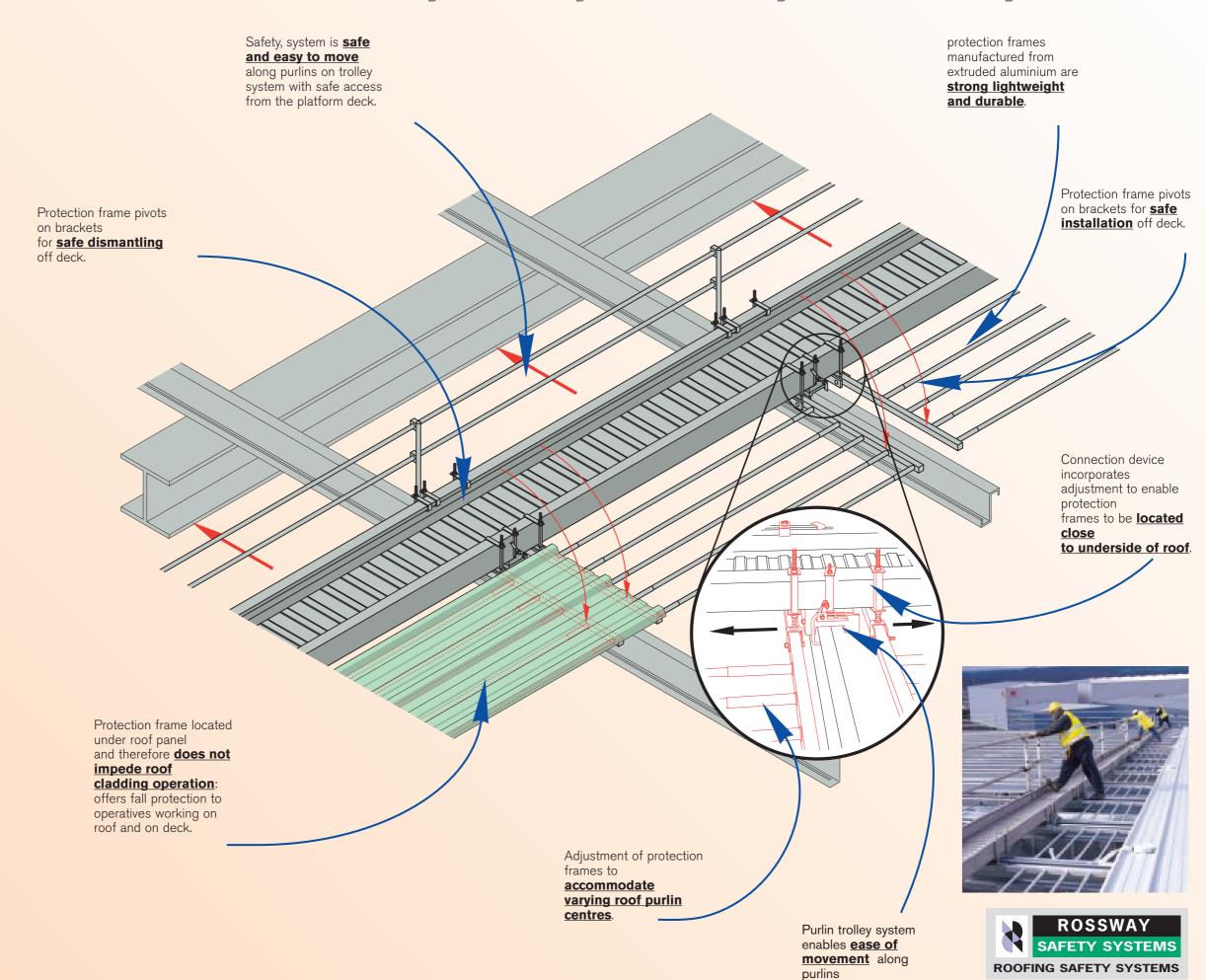
As the major supplier and installer of roofing products, Rossway Dowd Ltd have produced detailed guidance which illustrates practical solutions to eliminate or minimise risks involved in roofing operations. An appreciation of the installation process is required by all parties involved in the procurement and supervision of roof work. This brochure will assist in identifying the key issues to consider and illustrate that correct detailing, specification and installation techniques will olay a major role reducino

afety risks in an operation

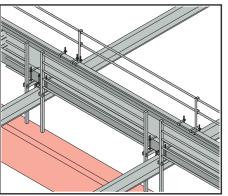
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sk construction act

### Features of The Rossway Safeway Roof Safety Protection System

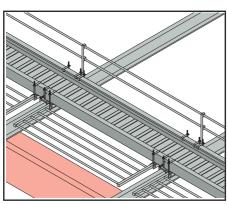


### Installation of Roof Panels with the **Rossway Safeway Roof Protection System**





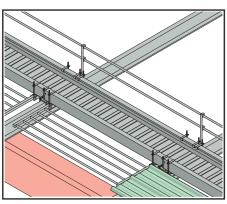
The platform deck with integral double handrail is installed on trolleys running on roof purlins. Trolleys must be located at maximum 4 meter spacings along deck length. Working edge protection installed using deck with handrail for access.





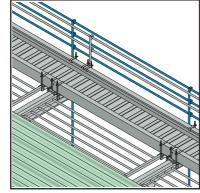
Working edge protection framework pivots or bracket & frame moves from vertical to horizontal position just below top or roof purlins.







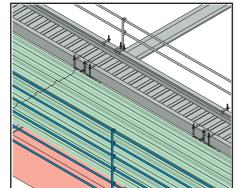
Roof work can now safely proceed using deck with handrail for access at leading edge & Rossway Safeway at working edge





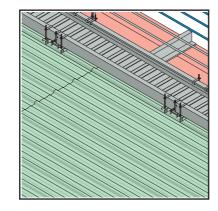
Subsequent panels are installed from eaves to ridge until end of building is reached and panels are covering framework.







Panels are installed from eaves to ridge in tier width to full slope length.



To install the final tier the working edge safety protection device is removed by pivoting on the brackets.

The platform deck and handrail is then moved onto the completed roof construction and the final roof tier installed

### **Loading Materials to Roof Level**

To achieve a safe system of work it is necessary to plan all activities prior to undertaking

The loading of material from ground to roof level is an important activity and thorough consideration must be given to:

- The location of material loaded on to the framework - will this affect the manner in which work can be undertaken at roof level?
- The methods that will be used to load these materials at roof level - safe access will be required at roof level for operatives at roof level to guide and land materials.

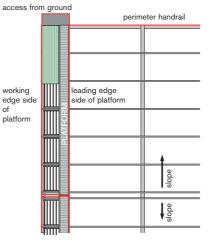
 When located at roof level safe access will be required from material location to final fixing

It is therefore important to ensure that the loading of materials on to the roof structure is always on the Working Edge not the **Leading Edge** side of the platform deck. This ensures materials are always back **loaded** onto the roof covering not **forward loaded** over open structural steelwork. If the materials are incorrectly placed on the leading edge side, safe access from the material location to the working

position is not provided.

Furthermore if the materials are loaded incorrectly, either the decks will need to be dismantled or the materials moved on the roof level incurring unnecessary additional risk.

The correct loading sequence is indicated with the aid of a diagram of a typical simple portal frame construction as below:

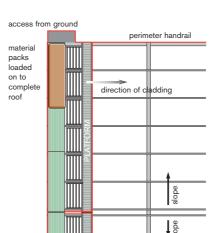




In preperation for the roof loading operation the following works must be completed:

- Suitable access provided from ground to roof level for operatives at location indicated.
- · Edge Protection to the of the building installed to be minimum double edge handrail and in accordance with Health and Safety Statutary Requirements.
- Rossway Safeway Roof Safety Protection System installed. The first tier of roof panels are then craned directly into position and laid from eaves to

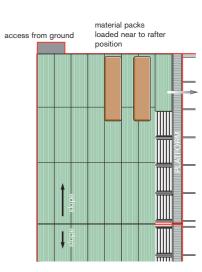






Materials can be loaded directly on to the first tier of roof panels, full fall protection is afforded to the operative whilst off loading this material at roof level. The Roof Safety Protection

System is then moved in the direction of roof cladding by a distance of the tier width. usually 1 meter.







moved in tier width increments. Each roof tier is fully fixed before advancing from the **BACKLOADED** location on the completed roof area.

#### **Structural Frame**

Coordination of all design elements is critical to ensure safety in construction. The SAFEWAY system consists of an aluminium deck on trolleys which are moved along the purlins. To one side of this deck, the leading edge, a double hand rail on posts is attached. To the other side of the deck, the working edge protection is underslung under the purlin zone created when moving the leading edge protection 1 metre being the panel tier width as indicated.

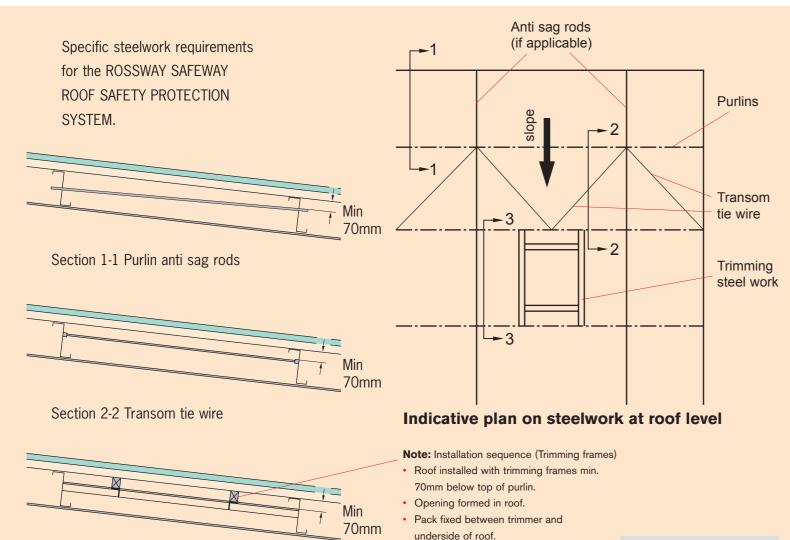
The structural frame must therefore meet the following requirements:

- As shown there must be a clear uninterrupted zone of a minimum 70mm between top of purlin and any anti sag rod system, tie wires or trimming framework.
- The purlins must be continuous over the rafters not between rafters.

Section 3-3 Trimming frame where trimmers are

installed before roof





# Adjustment between roof purlins

The Rossway Safeway Roof
Safety Protection System has
been designed to accommodate
different purlin centres. The
unique frame construction
incorporates a sleeve
arrangement and the
intermediate roof purlins are
altered to suit the purlin spacing.
Once these are installed within
the sleeve arrangement they
offer strength rigidity to the
working edge protection system.



# Using the Roof Safety Protection System

The sequence of installation outlined in this brochure is specific to certain criteria:- a single span partial frame.

Where the criteria differ (i.e. multi-span portal frames) the same principals outlined will apply, however additional fall or edge protection may be required. The system provides protection to the panel tier width (generally 1 metre wide) during installation.

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Therefore before the Rossway Safeway System is advanced to the next tier width the panels must be fully fixed to achieve a non fragile status. The stage at which each component of the roof construction becomes non fragile must be determined by direct consultation with the roof system manufacturer. This is of major importance in multi-part built-up construction including light gauge metal liner panels and in plain rooflight constructions.



<u>Warning:</u> The system has been designed and tested as a fal protection device for emergency use only. It must not be used for operatives to gain access to work locations. Materials must not be stored on the system imposing any additional loads. If any damage occurs to the units they must be replaced immediately before any further roof work commences.