

KINGSPAN KS2000RW PANELS – PANEL HANDLING EQUIPMENT

Panel off-loading.

The KS2000RW panels are delivered crown stacked without the need to turn any panels. Individual panels are stacked without packaging directly onto the truck bed and by arrangement with Kingspan the stacks include X-dek cross bearers under the stacks at pre-determined centres.



The purpose of the X-dek bearers is to allow un-loading beams to pass through the bearers and the locations of the bearers are agreed with Kingspan to suit the Pack Boy™ modular off-loading system. Refer to the separate chart detailing Pack Boy™ beam centres, lifting capacities and lift heights for details.

The Pack Boy™ system comprises a modular spreader beam with lifting slings and two cross beams that slide through the X-dek panels enabling the entire pack to be hoisted from the truck bed in minutes. Where required, HSE compliant podium access steps are included and the entire kit is supplied to site in a purpose designed steel container.





Various Pack Boy™ kits are available and the range is flexible to allow adaptation to suit all pack sizes. The maximum allowable pack weight for any single Pack Boy™ system is 5 tonnes. All users must take the weight and effective working height of the Pack Boy™ kit into account when sizing cranes – full details are provided on the panel off-loading chart.

The single Pack Boy™ system is suitable for packs up to 15m long. For longer packs it is necessary to double up and use two standard Pack Boy™ kits suspended from a third spreader beam and such a system is capable of lifting packs of up to 24m long and 8 tonnes total weight.



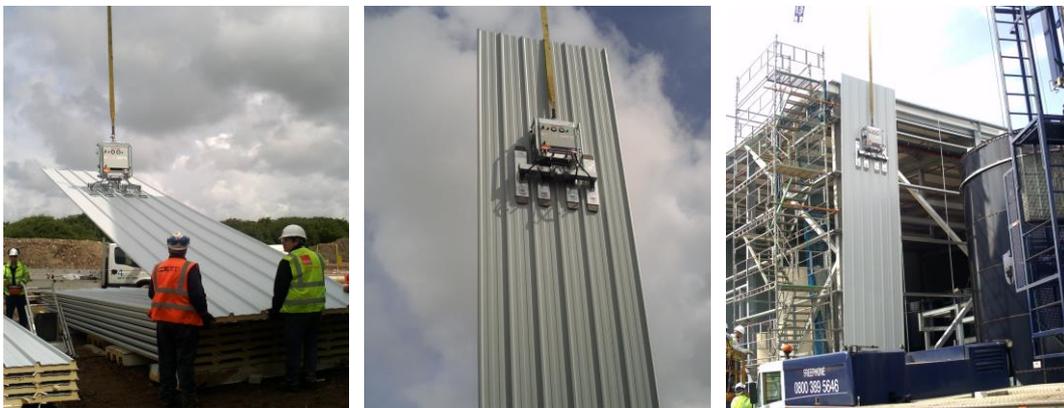
If you intend to use the Pack Boy™ system to off-load the panels it is imperative that Kingspan are notified at the earliest possible moment to ensure that the packs are suitably arranged.

If you decide to leave the panel pack on the truck bed and lift individual panels from the load onto the building roof or wall it is important to note that you will need to provide a safe method of working at height.

Access will be required onto the panel stack, usually for two operatives, so that the vacuum lifter can be positioned and operated and the load-secure safety straps attached around the panel.

Panel installation – wall panels.

Where the KS2000RW panels are to be used as wall cladding, individual panels are hoisted from the packs using a modified Clad Boy® CB5 model panel lifter as shown. Panel lengths of up to 12m and 400Kg weight are easily handled in this manner.



Due to the size and weight of the panels this technique is most suitable for use with cranes rather than telehandlers or forklifts. It should also be noted that the large surface area of the panel will increase susceptibility to wind loading and lower wind limits may therefore apply.

Panel installation – roof panels.

Most usually a Clad Boy® CB4 model panel lifter is used for this application and a range of configurations are available to suit panels of any length. When considering potential projects it should again be noted that these double width panels are subject to increased wind loads and recommended wind speed limits are lower than with standard width panels of comparable length.

For lengths up to 17m a single machine configuration is suitable and this system has been used to great effect on many KS2000RW projects. The Clad Boy® unit is equipped with heavy duty purpose designed extension arms which spread the suction pads to support the increased panel width. With the latest Clad Boy® CB4 models, panels weighing up to 600Kg can be lifted with single machine configurations. The machine configurations have the added advantage of allowing standard 1m width panels to be handled by simply adjusting the suction pad positions.



The Clad Boy® is a proven vacuum panel lifter and many installers are familiar with this type of equipment. With internal re-chargeable battery power, the Clad Boy® enables rapid panel installation rates, taking advantage of the 2m cover width provided by the KS2000RW panel.

For projects involving KS2000RW panels over 17m long, a double Clad Boy® system is available with two lifters suspended below a Pack Boy™ spreader beam.

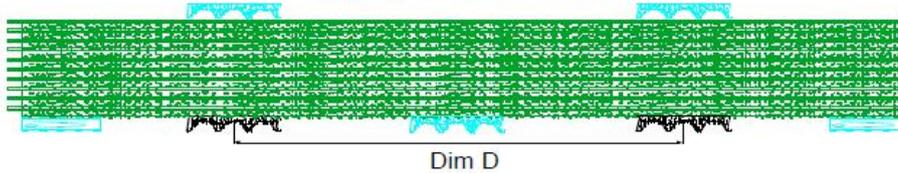


This impressive system has already been used to handle panels up to 21m long and has the capability of lifting 24m panels with ease.

PACK BOY

MODULAR OFF-LOADING SYSTEM FOR KINGSPAN KS2000RW PANELS

For Panel Lengths Up To 15 metres, 2 Lifting Points



IN ALL SITUATIONS THE MAXIMUM PACK HEIGHT IS 2m FROM UNDERSIDE OF X-DEK BEARERS

MAXIMUM PACK WEIGHT IS 5 TONNES

Packs up to 7m long.

Dimension "D" is 3m.
Pack Boy™ self-weight is 300Kg.
Height from crane hook to underside of pack is 9m

Packs from 7m up to 10m long.

Dimension "D" is 5m.
Pack Boy™ self-weight is 350Kg.
Height from crane hook to underside of pack is 8.5m

Packs from 10m up to 12m long.

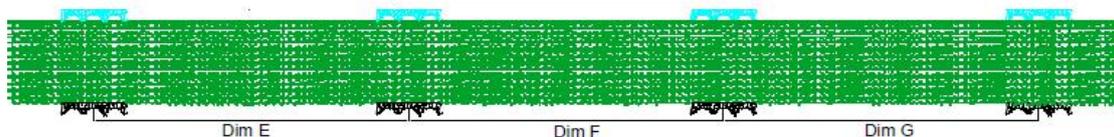
Dimension "D" is 6m.
Pack Boy™ self-weight is 400Kg.
Height from crane hook to underside of pack is 8m

Packs from 12m up to 15m long.

Dimension "D" is 8m.
Pack Boy™ self-weight is 550Kg.
Height from crane hook to underside of pack is 7.5m



For Panel Lengths Over 15 metres up to 20 metres, 4 Lifting Points



IN ALL SITUATIONS THE MAXIMUM PACK HEIGHT IS 2m FROM UNDERSIDE OF X-DEK BEARERS

MAXIMUM PACK WEIGHT IS 8 TONNES

Packs from 15m up to 17m long.

Dimension "F" is 3m and dimensions "E" & "G" are 5m.
Pack Boy™ self-weight is 1500Kg.
Height from crane hook to underside of pack is 18.5m

Packs from 17m up to 22m long.

Dimensions "E", "F" & "G" are all 5m.
Pack Boy™ self-weight is 1600Kg.
Height from crane hook to underside of pack is 18m.



PACK BOY

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