



**KITE  
PROJECTS  
STEP**

Highly innovative step solution for embankments  
alongside railways, highways and other  
challenging work environments

[kitestep.com](http://kitestep.com)

# KITE Step general information

## About KITE Step

KITE Projects has been providing compliant handrail and access solutions for a number of years, to a wide range of companies in the rail, aviation, highways, energy and marine sectors. We noticed an opportunity for improvement in embankment access systems, so KITE Step has taken KITE Project's reputation for innovation and quality and created a bespoke solution.

KITE Step have designed a modular system of high strength steel runners and treads that weigh less than 50 kg\* per component and can be installed and used immediately. The only excavation required is for the posts that hold the system in position, which can be done without the use of machinery, which removes the dangers of using excavators on slopes. Adjustable treads mean that virtually any angle of the slope can be accommodated, and pre-cut finished parts mean that only hand tools are required to assemble. Landings are available to enable a rest period or change of direction.

\* - Dependant on site-specific dimensions

## Main advantages of KITE Step system:



**Minimal bank preparation required** - the modular structure is suspended on the posts above the ground. It can be installed over existing concrete steps by bolting post mounted flange plates to existing concrete.



**Permanent, strong solution**



**Reduced weight** - The parts that make up the steps will be within a two man lift for manual handling purposes – concrete / masonry steps require much heavier materials.



**Low load** - The overall mass placed on the bank in our modular approach is significantly less than its masonry/concrete equivalent and requiring less ground engineering.



**Fast and easy installation** - Installation time for KITE Step is significantly less and it is ready for use immediately. This reduces shift time and the associated costs of labour and equipment etc.



**Slip-resistant steps** - The steps are open gratings so there is minimal retention of slippery leaf mould and water that could become icy.



**Engineering compliance** - The product can be tested for engineering compliance before installation by calculation if required.

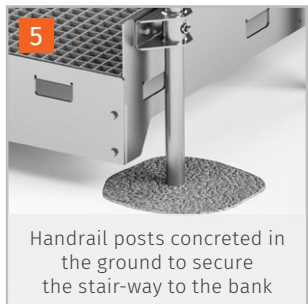
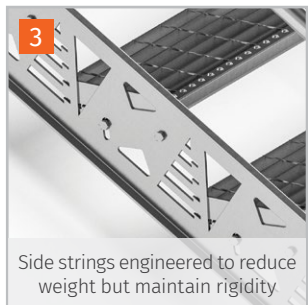
KITE Step is an innovative access solution from KITE Projects

 **KITE  
PROJECTS**  
Keeping your  
network moving

[kitestep.com](http://kitestep.com)



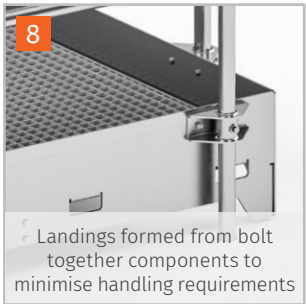
# KITE Step system features and benefits



## TECHNICAL CHARACTERISTICS

DESIGN LOAD TO SURFACE [kN]	5
STANDARD WIDTH [m]	1.8*
HANDRAIL LOAD (kN)	0.7
HANDRAIL HEIGHT – STAIRS (mm)	900
HANDRAIL HEIGHT – LANDINGS (mm)	1100

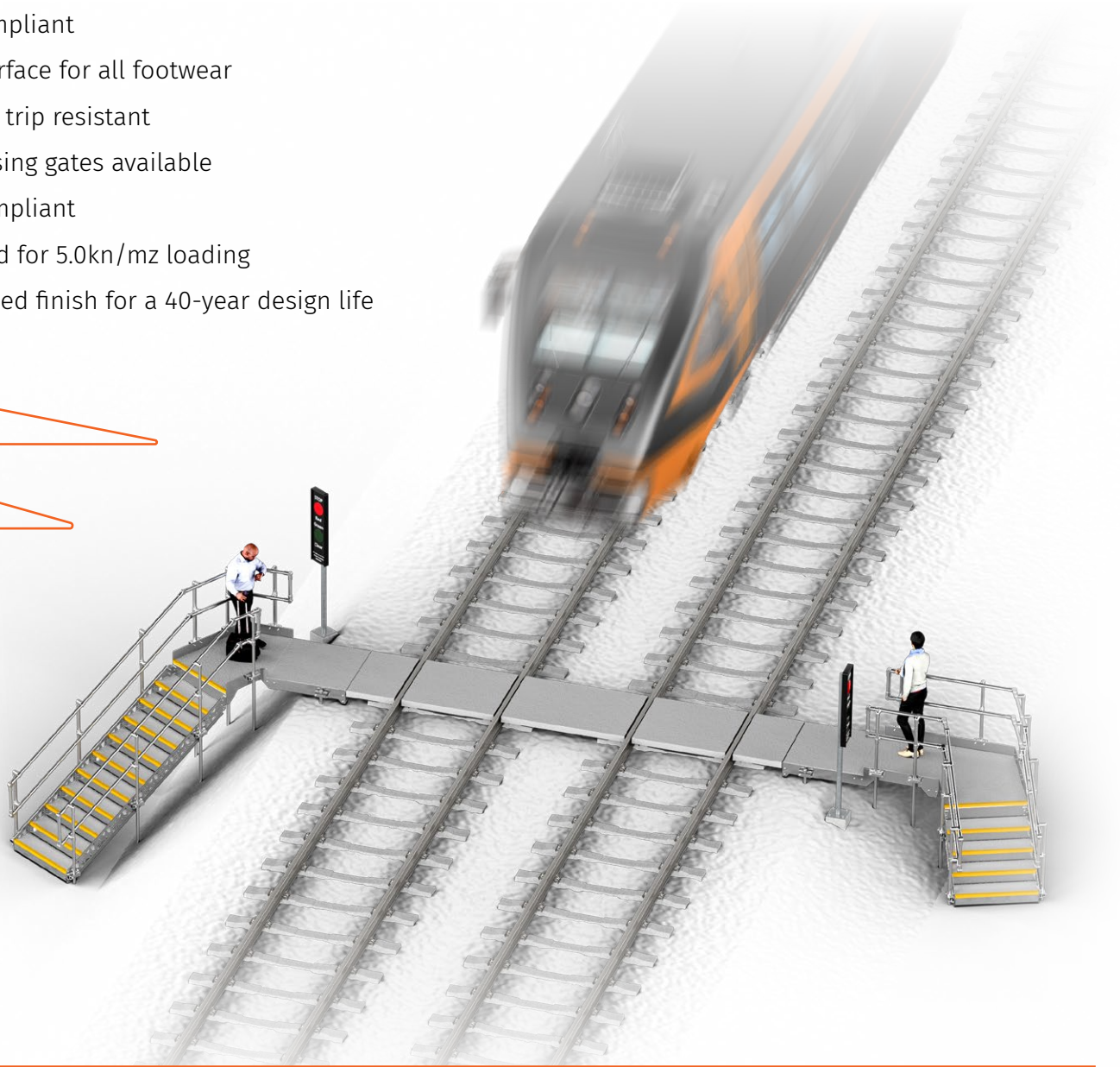
\* - Other sizes available





KITE Projects Safe Cross have been developed to give a safer access where the public are utilising a traditional footpath or right of way to cross the track; the genius of this product is that pedestrians can get proper sighting of track at the decision point.

- > DDA Compliant
- > Solid surface for all footwear
- > Slip and trip resistant
- > Self-closing gates available
- > SSSI Compliant
- > Designed for 5.0kn/mz loading
- > Galvanised finish for a 40-year design life

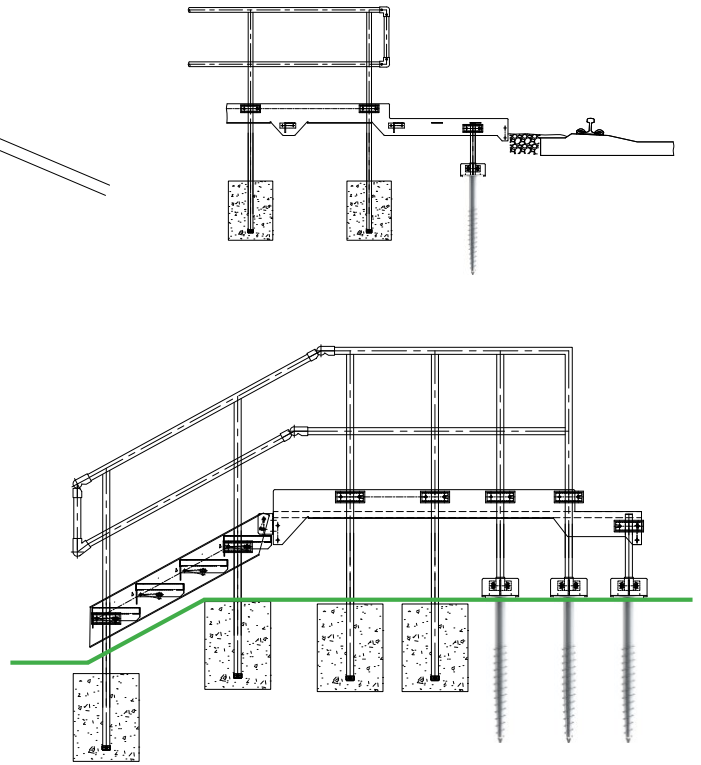
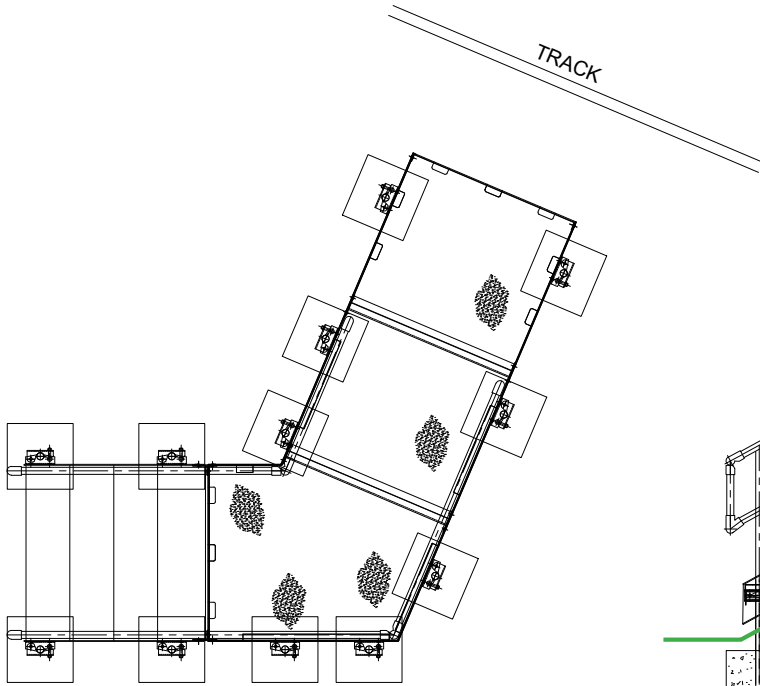


#### Alternative foundation system to Post – Crete

- > Extremely stable
- > No digging nor concrete needed
- > Very easy to install (quick!)
- > Suitable for every type of soil surface



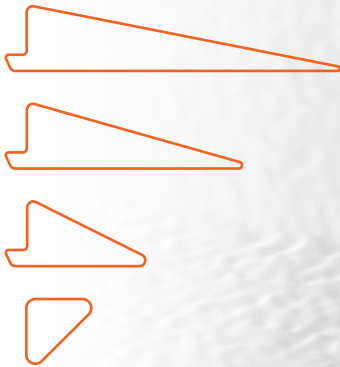
# Technical details





**KITE Projects Bridge joins up communities and keeps you in a safe place whilst moving round the nations infrastructure.**

- > Adaptable and modular design for handling purposes
- > Stepped access to ensure that it is used appropriately
- > Can be used over flood routes, ditches and culverts
- > Designed for 5.0kn/mz loading
- > Galvanised finish for a 40-year design life



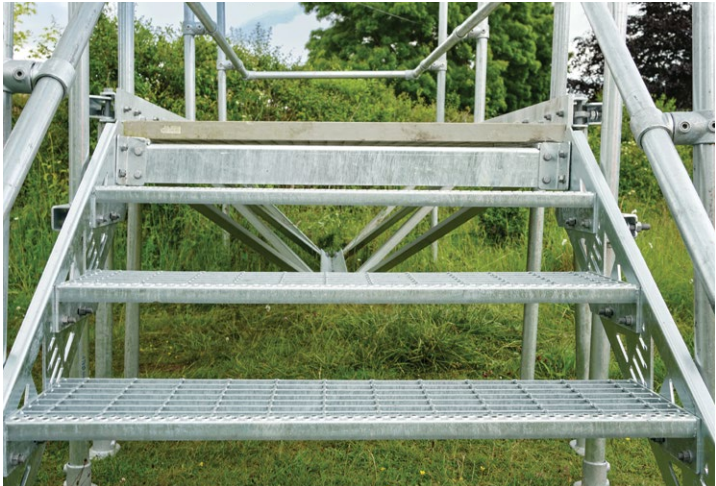
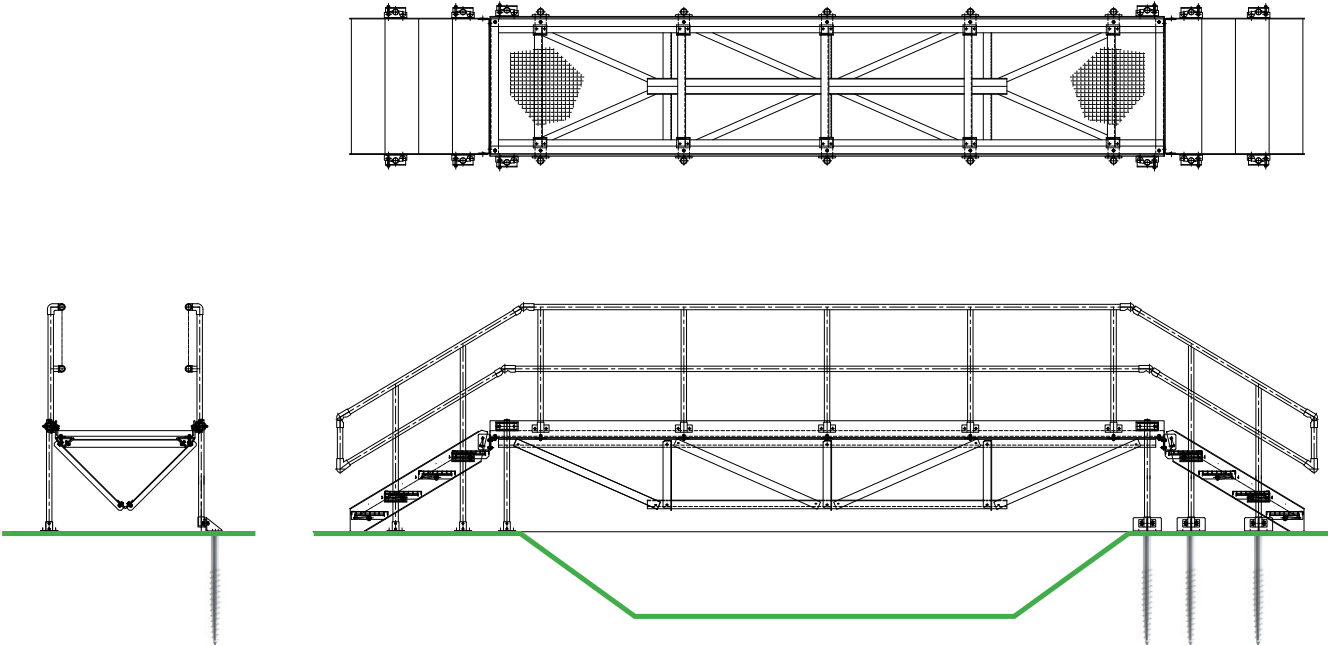
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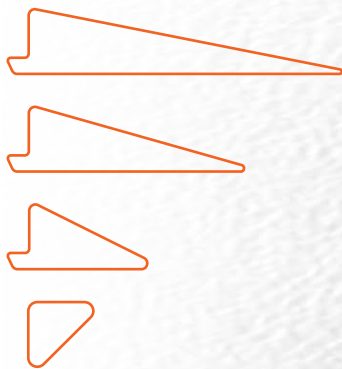
# Technical details





**KITE Projects Walkway enables infrastructure workers to continue their journey safely whilst working on the network. Designed for manual handling efficiencies and minimising the handling of bulk material but providing a safe designated walkway this joins up our steps and bridge product to give a safe, protected journey with KITE.**

- > Reducing project timeline
- > Safe access routes
- > SSSI Compliant
- > Designed for 5.0kn/mz loading
- > Galvanised finish for a 40-year design life
- > Designed to minimize manual handling

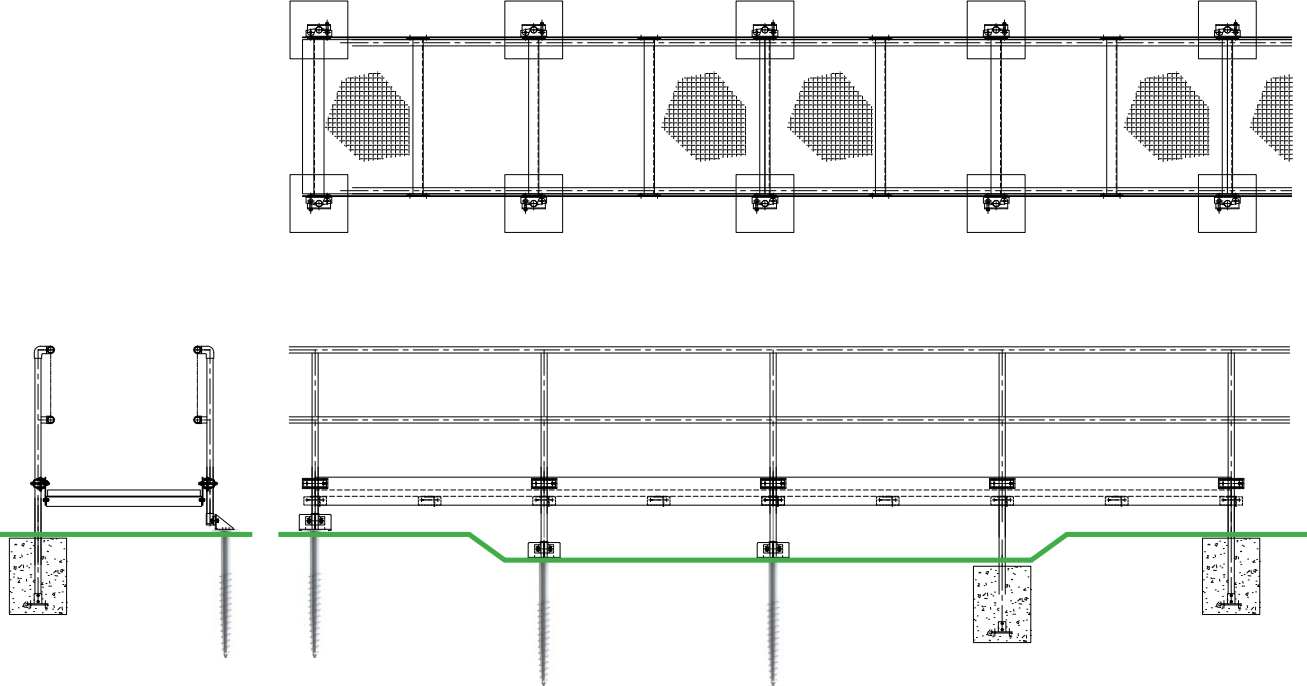


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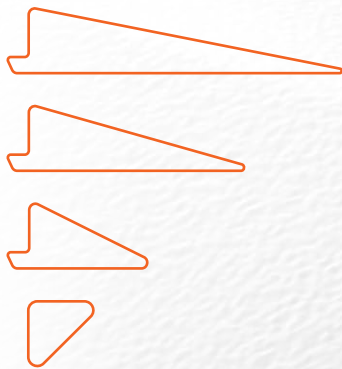
# Technical details





**The number of fatalities on Smart Motorways is a compelling cause for concern. These relate to the movement of people in and adjacent to stranded vehicles. The solution? The KITEStep Refuge.**

- > Identifiable, safe locations from which to rescue vulnerable individuals
- > Engineered off site to agreed specifications - roadside installation time minimised
- > Fast on-site realisation, immediately usable
- > Up bank and down bank versions
- > Surface mounted by design – minimal habitat and environmental impact
- > Galvanised finish for a 40-year design life

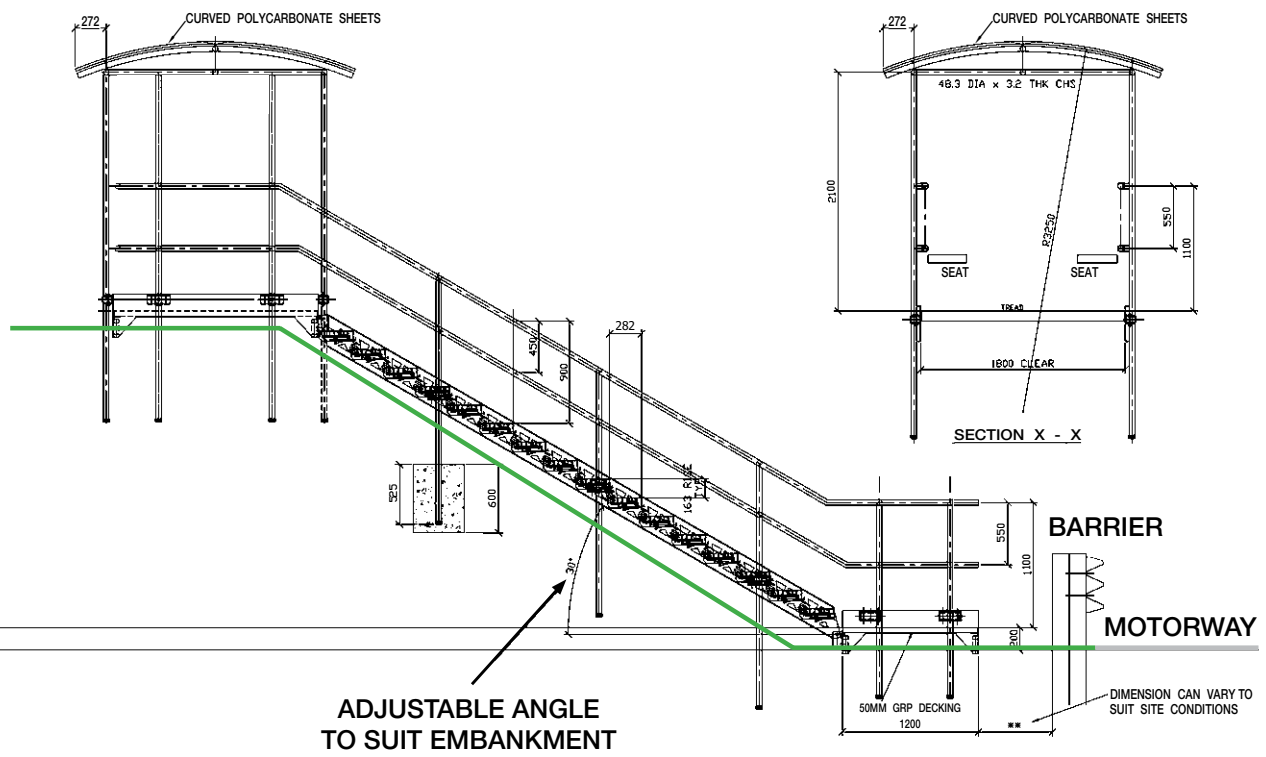
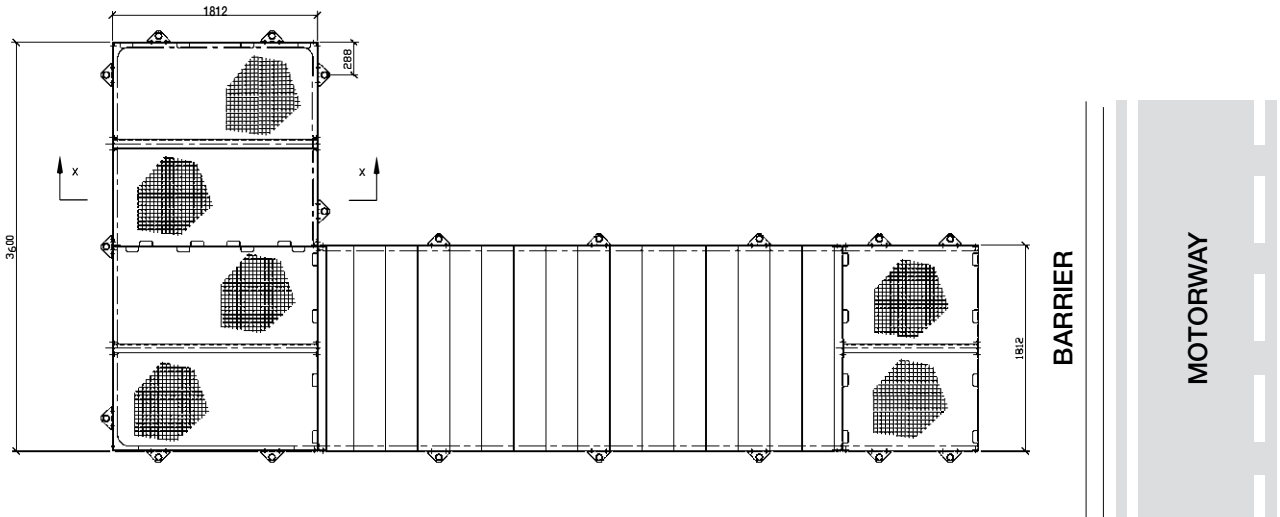


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## KITE Step our qualities

Safety, integrity and expert advice are at the heart of our service. Our clients depend on us to deliver the very best solutions to meet their needs. KITE Projects specialises in designing and supplying handrail and access solutions for infrastructure projects, and focuses on compliance, ensuring that solutions produced are compliant to loadings specification or any other stipulations. We frequently work in infrastructure markets which include; rail, aviation, highways, energy, marine, data and military sectors and produce solutions to fulfil their handrailing and access requirements. Our project package begins at design and goes through to site survey to producing a compliant result that fulfils the client's expectations and is comprehensive and site-workable.

In addition to our products, what makes clients return to KITE time and time again is our ability to provide expert advice to ensure you implement the right systems and components to deliver the best value and functionality. It is the relationship we have with our clients that sets KITE apart. We can assist you in evaluating our products and we can help you to implement them to ensure they work the way you want them to.



Honesty



Safety



Compliance



Experience

## KITE Step in numbers

95 %

reduction in 'muck-away'

2 men lift

max weight  
of a single component

40 %

labour time saving  
compared to  
masonry/concrete equivalent

25 years+

service life  
thanks to galvanising\*

80 %

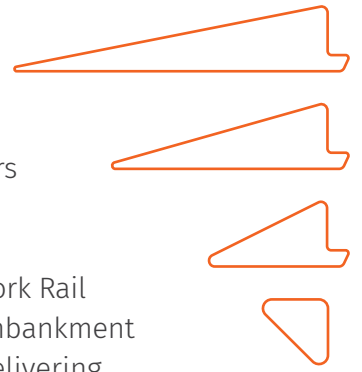
of the materials used  
are recyclable

\* - Dependant on geographical location

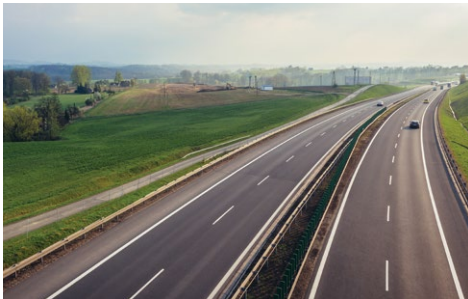
# Typical applications

KITEStep has taken KITE Project's impeccable reputation for service, innovation and quality and created a bespoke staircase solution giving safe access for engineers working on embankments such as next to railway lines and highways.

Having worked with some of the largest transport agencies in the UK including Network Rail and Highways England, we know that unstable, semi-permanent, one-size-fits-all embankment staircases do not deliver the quality standards required. KITEStep solves this by delivering bespoke embankment staircases tailored to your project scenarios, that are permanent and strong, and can be delivered in a timely, cost effective manner.



**HIGHWAYS**



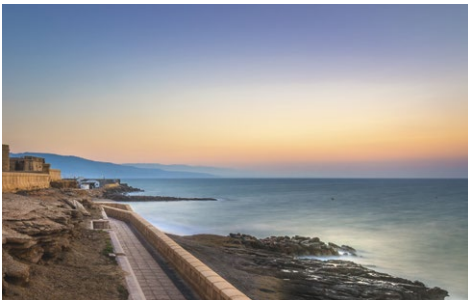
**RAILWAYS**



**RENEWABLES**



**MARINE AND COASTAL**



**OIL AND GAS**



**RIVERS AND LAKES**



## Certificates

At KITE, we focus on compliance, ensuring that solutions produced are compliant to loadings specification or any other stipulations. We are FORS Silver registered, Achilles, RISQS, Constructionline and ISO9001 approved.



KITE won two awards for the KITEStep system at the Highways UK 2018 show; we were the winner in the safety category and also the overall winner! The KITEStep system was recognised as an innovative solution for embankment access.



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