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Due to our policy of continual improvement, we reserve the right to change specifications at all times without prior notice.

January 2021

LK-UK.COM



**LIONWELD
KENNEDY**
COMPOSITES

GRP SOLUTIONS



PROVIDING COMPOSITE SOLUTIONS WORLDWIDE

Lionweld Group's history as suppliers of access products can be traced back over 110 years. From our base in Middlesbrough the company has grown into the leading supplier of open mesh flooring in the UK.



As a pioneer of GRP products since the mid 1980's, Lionweld Kennedy has decades of experience providing engineered composite solutions to a wide range of applications. Lionweld Kennedy Composites is growing from strength to strength servicing, amongst others, the construction, power, water, offshore and renewables industries with exceptional products and services.

Quality control, technical compliance and high levels of service are the fundamentals upon which the company has earned its trusted reputation. As an ISO9001 registered company, Lionweld Kennedy offers high standards and best in class practices in all we do.

INDUSTRY SECTORS WE COVER



FLOWGRATE GRATING

LK Flowgrate moulded GRP open mesh grating offers a cost effective, lightweight solution to your access flooring needs.

Flowgrate is ideal for walkways, platforms, risers, trenches and mezzanine decks. Available in 3 different resin types* to suit all your requirements.

*Available in polyester, vinylester and phenolic (London Underground approved) resins.

BENEFITS



Corrosion resistant



Low maintenance



Lightweight



Easy installation



Excellent slip resistance



Low life cycle costs

AVAILABLE SIZES


Depth (mm)	Mesh Size (mm)	Panel Size (mm)	Open Area %	Panel Weight Kg
25	38 x 38	1000 x 3000	70	36
25	38 x 38	1220 x 3660	70	54
38	38 x 38	1000 x 3000	70	54
38	38 x 38	1220 x 3660	70	80
38	19 x 19	1220 x 3660	34	107
50	50 x 50	1220 x 3660	72	89

CLEAR SPANS


Maximum Allowable Clear Span			
Load kN/m²	25mm Deep Flowgrate	38mm Deep Flowgrate	50mm Deep Flowgrate
1.5	510	1015	1635
1.5*	510	940	1285
3	510	1015	1345
3*	510	940	1180
5	510	885	1130
5*	510	865	1035
7.5	490	775	990
7.5*	490	775	935

*maximum for 4mm deflection in accordance with BS 4592-0 : 2012


STANDARD COLOURS




LIGHT GREY
RAL 7040



DARK GREY
RAL 7043



YELLOW
RAL 1003



GREEN
RAL 6017



FlowGrate Grating

FLOWGRATE MARINE MINIMESH GRATING

LK Flowgrate Marine GRP open minimesh grating is a low maintenance, slip resistant alternative to more traditional decking surfaces.

Its open mesh gritted top surface provides excellent grip in wet or oily surfaces and corrosion resistant properties make it ideal for use in both inland and coastal locations.

The perfect choice for marinas, jetties, pontoons and gangways. Available in 4 different standard colours to suit your requirements.

BENEFITS



Corrosion resistant



Low maintenance



Lightweight



Easy installation



Excellent slip resistance



Low life cycle costs

AVAILABLE SIZES


Depth (mm)	Mesh Size (mm)	Panel Size (mm)	Open Area %	Panel Weight Kg
22	20 x 20	1007 x 3007	42	36.6
22	20 x 20	1247 x 4047	42	61.6
22	20 x 20	1527 x 4047	42	75.4
30	20 x 20	1007 x 3007	42	41.1
30	20 x 20	1247 x 4047	42	69.2
38	20 x 20	1220 x 3660	42	96.0

CLEAR SPANS


Maximum Allowable Clear Span			
Load kN/m²	22mm Deep Minimesh	30mm Deep Minimesh	38mm Deep Minimesh
1.5	510	510	1015
1.5*	510	510	940
3	510	510	1015
3*	510	510	940
5	510	510	885
5*	510	510	865
7.5	490	490	775
7.5*	490	490	775

*maximum for 4mm deflection in accordance with BS 4592-0 : 2012


STANDARD COLOURS




LIGHT GREY
RAL 7040



GREEN
RAL 6017



SAND
RAL 1001



TEAK
RAL 8024

FLOWTREAD GRATING

LK Flowtread pultruded GRP open mesh grating is a corrosion resistant, low maintenance option where increased spans are required.

Flowtread has a glass to resin ratio of 65:35 providing increased stiffness. It is ideal for walkways, platforms and mezzanine decks and is widely used in offshore environments. Available in

3 different resin types* to suit all your requirements.

*Available in polyester, vinylester and phenolic (USCG & DNV L2 approved) resins

BENEFITS



Corrosion resistant



Low maintenance



Lightweight



Easy installation



Excellent slip resistance



Low life cycle costs

AVAILABLE SIZES


Depth (mm)	Mesh Size (mm)	Panel Size (mm)	Open Area %	Panel Weight Kg
25	34 x 152	1000 x 6000	55	78
38	34 x 152	1000 x 3000	55	108

CLEAR SPANS


Load kN/m²	Maximum Allowable Clear Span	
	25mm Deep Flowtread	38mm Deep Flowtread
1.5	790	1340
1.5*	790	1125
3	790	1340
3*	790	1125
5	790	1340
5*	790	1125
7.5	790	1340
7.5*	790	1125

*maximum for 4mm deflection in accordance with BS 4592-0 : 2012

STANDARD COLOURS



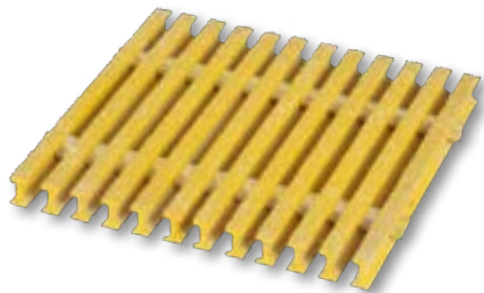
LIGHT GREY
RAL 7040



YELLOW
RAL 1021



ANTIQUE BROWN



FlowTread HD Grating

FLOWTREAD HD GRATING

LK Flowtread HD series pultruded open mesh grating has been engineered to carry vehicular loads.

It has passed the BS EN124 B125 and C250 tests for both permanent set and load. Flowtread HD is widely used in the power generation network and is suitable

for vehicle crossing points over trenches in any industry. Available in high strength, corrosion resistant vinylester resin.

BENEFITS



High strength to weight ratio



Designed for vehicular loading



Corrosion resistant



Low maintenance



Excellent slip resistance

AVAILABLE SIZES

Grating Type	Depth (mm)	Mesh Size (mm)	Panel Size (mm)	Open Area %	Panel Weight Kg
FTHD3000	50	22 x 150	538 x 5600	32	77.5
FTHD5000	50	30 X 150	733 x 5600	50	57

GRATING DATA

Load Bearing Bar Size	51x15mm I-Bar
Load Bearing Bar Centres	22mm - HD3000 30mm - HD5000
Non load bearing tie rod centres	150mm
Material Grade	Vinylester
Fire Rating	ASTM E84 class 1 < 25

STANDARD COLOUR



YELLOW
RAL 1003

FLOWGRIP

LK Flowgrip plank flooring is a pultruded, one piece construction, interlocking tongue and groove flooring system for large spans and specialist applications.

Used where solid flooring is required for odour control or dropped object protection . Flowgrip is also available with a slotted top surface if drainage is required. Available in 2 different resin types* to suit your requirements.

*Available in polyester and vinylester resins.

BENEFITS



Corrosion resistant



Low maintenance



Lightweight



Easy installation



Excellent slip resistance



Low life cycle costs

AVAILABLE SIZES

Depth (mm)	Mesh Size (mm)	Panel Size (mm)	Panel Weight Kg
38	solid	500 x 6000	57
38	slotted*	500 x 6000	54

*slotted panels are not stocked in the UK and will be subject to longer lead times

CLEAR SPANS

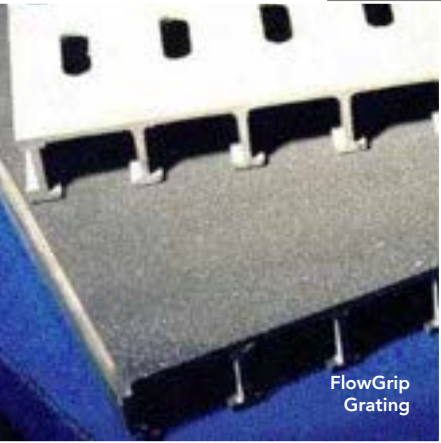
Maximum Allowable Clear Span		
Load kN/m²	Solid Flowgrip	Slotted Flowgrip
1.5	1465	1390
3	1465	1390
5	1405	1355
7.5	1230	1180

STANDARD COLOUR



LIGHT GREY

RAL 7040



BRIDGEDECK

LK BridgeDeck is a pultruded one piece construction structural panel. It forms an interlocking walkway system for specialist applications with limited support beams.

The unique connection system can be bonded together to form a composite connection that will not allow water to penetrate the deck. This heavy duty panel has been used extensively throughout the rail network for modular station platforms.

BENEFITS



Heavy Duty



Capable of large spans



Lightweight



Easy installation



Modular construction


BRIDGEDECK 63

LK BridgeDeck 63 was designed to perform as a heavy duty walkway, wall or roof panel system. The tongue and groove system was designed to accept structural adhesive for enhancing composite action between panels. This is an ideal product for pedestrian and/or cycle bridges. It has been used extensively in new build and refurbishment projects.

CLEAR SPANS

Maximum Allowable Clear Span		
Load kN/m²	BridgeDeck	BridgeDeck 63
5	3860	2580
7.5	3480	2330

STANDARD COLOUR



DARK GREY

RAL 7043



FLOWDECK GRATING

LK Flowdeck solid top combines a slip resistant walking surface with a durable moulded grating.

Flowdeck provides a solid floor to protect working areas below or to help contain odours. It is ideal for elevated walkways, trench covers and mezzanine decks.

Available in 3 different resin types* to suit all your requirements.

*Available in polyester, vinylester and phenolic (London Underground approved) resins.

BENEFITS



Corrosion resistant



Low maintenance



Lightweight



Easy installation



Excellent slip resistance



Low life cycle costs

AVAILABLE SIZES


Depth (mm)	Mesh Size (mm)	Panel Size (mm)	Panel Weight Kg
28	38 x 38	1220 x 3660	80
41	38 x 38	1220 x 3660	107
53	50 x 50	1220 x 3660	116

CLEAR SPANS


Maximum Allowable Clear Span			
Load kN/m²	28mm Deep Flowdeck	41mm Deep Flowdeck	53mm Deep Flowdeck
1.5	510	1015	1635
1.5*	510	940	1285
3	510	1015	1345
3*	510	940	1180
5	510	885	1130
5*	510	865	1035
7.5	490	775	990
7.5*	490	775	935

*maximum for 4mm deflection in accordance with BS 4592-0 : 2012

STANDARD COLOURS



LIGHT GREY
RAL 7040



DARK GREY
RAL 7043



FENCING AND GATES

LK GRP fencing and gates offer a lightweight, corrosion resistant alternative to traditional materials. LK have addressed the need for a maintenance free, easily installed method of security.

Whether it's end of platform gates, fences and debris screens for the rail industry, perimeter fencing for sensitive equipment or heavy duty blast screens around transformers in power stations LK has the solution.

Our non-conductive options include mesh, solid panel or palisade.

All of our designs are backed up by full calculations and drawings combined with the know how of a company that has over 100 years engineering experience.

Our products are all designed to easily adapt to your onsite requirements.

BENEFITS



Corrosion resistant



Low maintenance



Lightweight



Easy installation



Non Conductive



Reduced life cycle costs



STANDARD COLOURS



YELLOW
RAL 1003



SILVER GREY
RAL 7001



DARK GREY
RAL 7043

HANDRAILING AND LADDERS

LK GRP handrailing systems have been engineered to provide a range of options to suit your requirements. We can offer everything from fully fabricated frames with ergonomic or box section top rails to key clamp style components for onsite assembly.

With systems designed to withstand loads up to 0.74kN Heavy Load Classification, Lionweld Kennedy can provide you with a technically compliant system to suit your needs.

LK GRP ladders are fabricated from high quality pultruded structural sections to produce a lightweight, corrosion resistant access solution.

The ideal alternative to steel, GRP ladders are perfect for any application where corrosion, weight or space is a problem.

These can be supplied fully fabricated or sub-assembled if access to the worksite is limited. Whatever the situation LK can provide the answer to your access problem.



BENEFITS



Corrosion resistant



Low maintenance



Lightweight



Easy installation



Non Conductive



More Robust than Aluminium



STANDARD COLOURS



RAL 1003



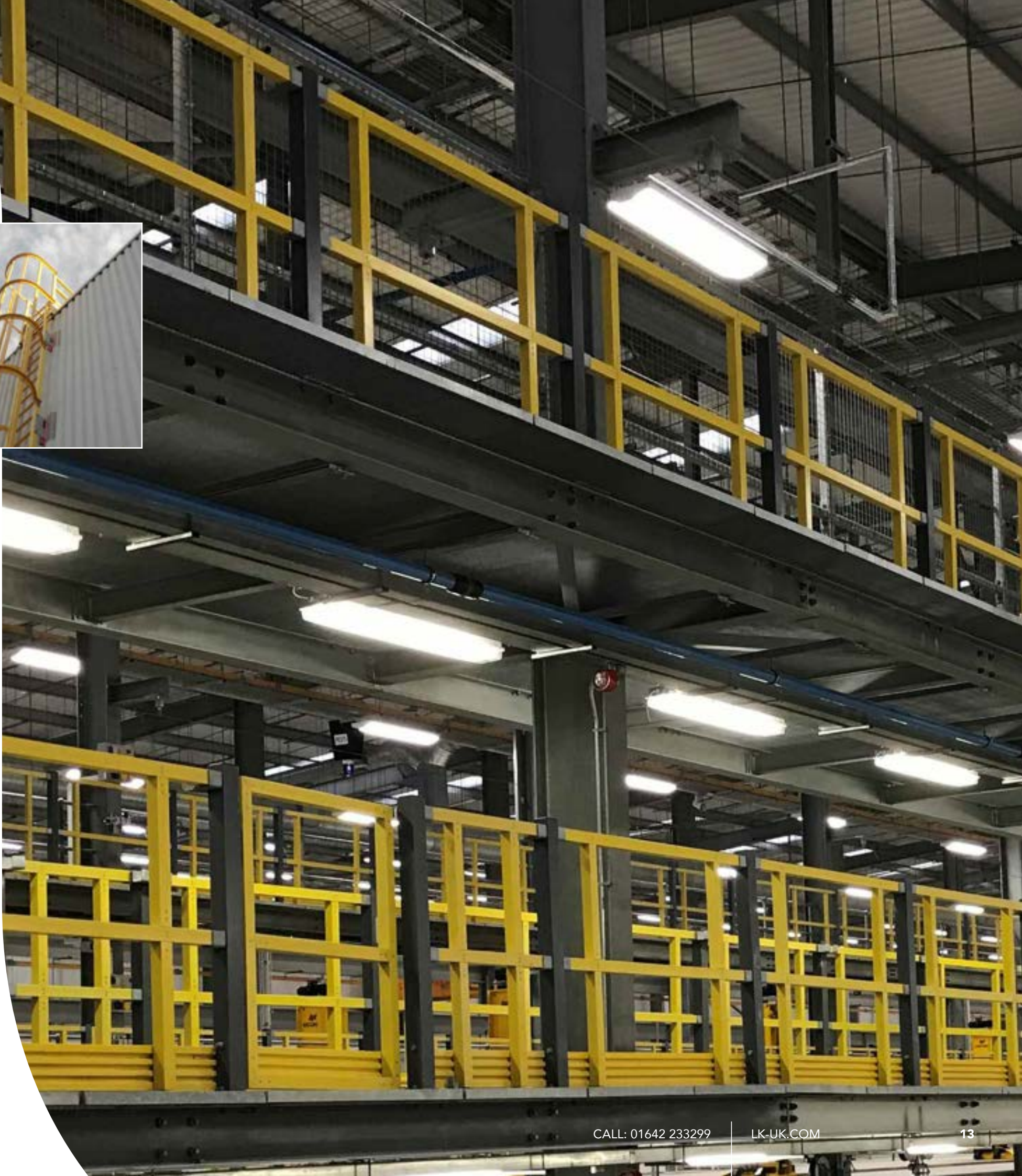
RAL 7001



RAL 7043

APPLICABLE STANDARDS

- BS EN ISO 14122
- BS 4592
- BS 6180



GRP SOLUTIONS ACROSS ALL SECTORS

Lionweld Kennedy are experts in the design, fabrication and installation of a wide range of GRP access products in a variety of sectors. We are fully complaint to BIM Level 2 & have a specialist team that designs to the latest standards and can supply all structural calculations.

Our bespoke GRP facility is one of the largest and most up to date in the UK where more traditional fabrication methods are supported by CNC routing capability and the latest water jet cutting technology.



Lionweld Kennedy offer a **turnkey solution** to all your access problems.



RAIL



MARINE



RENEWABLES



WATER



POWER



OIL & GAS



RISERS



CONSTRUCTION