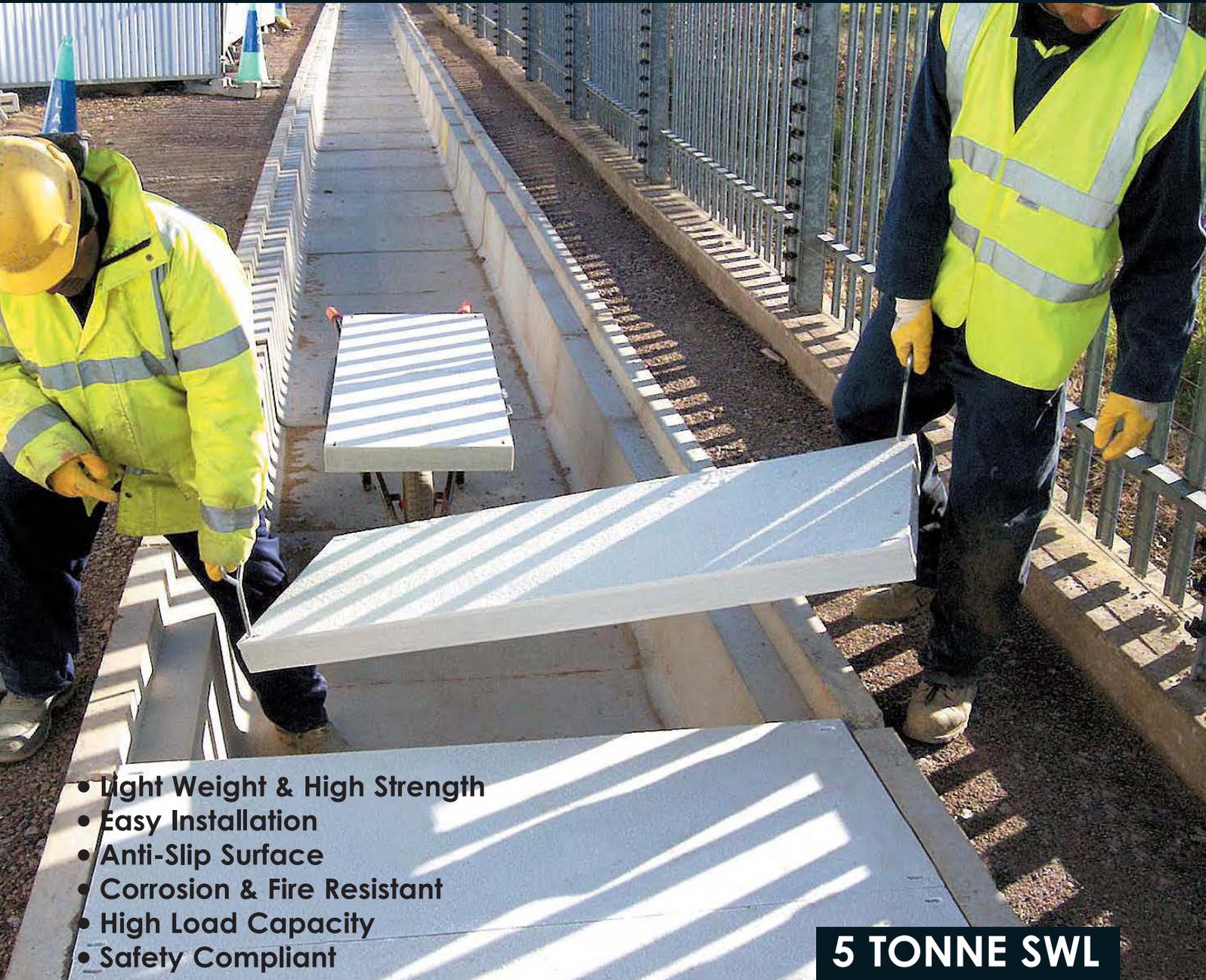


Fibreglass 玻璃纖維蓋板 Trench Covers



- Light Weight & High Strength
- Easy Installation
- Anti-Slip Surface
- Corrosion & Fire Resistant
- High Load Capacity
- Safety Compliant

5 TONNE SWL

For new or replacement covers, work platforms & structural flooring

...designed for the future

Industrial Rail Marine Landscaping Architectural

DORADECKTM
Cover System

DuraDeck Structural Trench Covers

Hi Tech Construction

DuraDeck is a precision engineered fibreglass structural flooring system manufactured using a unique construction technique that provides an incredible strength to weight ratio. A one piece high strength fibreglass profile is pultruded in one mass to produce a consistent quality flooring structure that is stiff, strong, light-weight, non-corrosive with an anti-slip walking surface.

New or Refurbishment Projects

DuraDeck is ideal for new constructions but is also well suited for refurbishment applications to replace old, heavy & cumbersome traditional flooring materials. The characteristics of DuraDeck make it more favourable than using steel, timber or concrete systems due to its lower weight, anti-slip surface, ease of installation and absence of maintenance.

Health and Safety Compliant

DuraDeck is alone in providing such a comprehensive list of Health and Safety benefits. DuraDeck has one of the highest degrees of slip resistance ever measured for a walking surface, especially in wet, oily and frosty conditions. It is a fraction of the weight of steel or concrete and can be supplied in 25kg or 50kg cover sizes. This allows a one or two man lift which complies with health and safety regulations. This means that routine inspections and repairs can be made easily by simply removing the appropriate covers. This obviates the need for expensive heavy lifting machinery in cases where access is limited.

British Standard Compliant

DuraDeck can be BS EN 124 approved. This European standard applies to gully covers and manhole covers for vehicular and pedestrian areas. In order to reach this approval a DuraDeck cover was subjected to a repeated load as per BS EN 124 standards. The test is continued to evaluate absolute failure level.

Applications:

- Trench Covers
- Industrial Flooring
- Work Platforms
- Tank Covers
- Service Duct Covers
- Bridge Decking
- Gully Covers
- Balcony Flooring
- Chemical Plant Flooring

Benefits:

- Light weight / High strength
- Easy installation
- Anti-Slip Surface
- Corrosion/Fire resistant
- Impact resistant
- Zero maintenance
- High Load Capacity
- One or two man lift
- Safety Compliant



Damaged concrete trench covers in need of replacement to meet Health & Safety Regulations



DuraDeck undergoing BS EN 124 testing



ISO 9001:2000
Certificate No: QJ73
國際品質管理體系標準認證

DuraDeck UDL Deflection Loads

Single Span Panels (kN) - L/200 (0.5%) Deflection (mm)

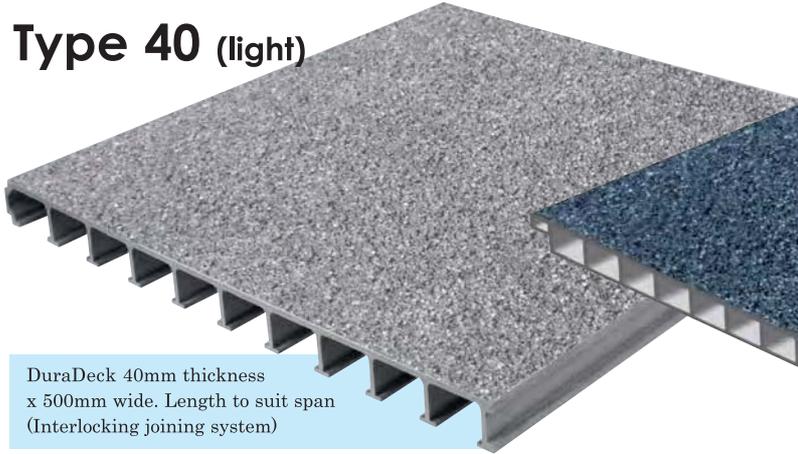
		Span (mm)											
		300	600	1000	1250	1500	1750	2000	2250	2500	2750	3000	
L/200 (0.5%) Deflection (mm)		1.5	3	5	6.3	7.5	8.8	10	11.3	12.5	13.8	15	
Type 40 Light	Allowable load to achieve L/200 (0.5%) (kN/m ²)	141	70.3	17.1	8.9	5.2	3.3	2.2	1.6	1.1	0.9	0.7	
Type 45	Allowable load to achieve L/200 (0.5%) (kN/m ²)	214.3	107.1	38.4	20.2	11.9	7.5	5.1	3.6	2.6	2	1.5	
Type 50 Light	Allowable load to achieve L/200 (0.5%) (kN/m ²)	266.7	133.3	34.1	17.8	10.4	6.6	4.4	3.1	2.3	1.7	1.3	
Type 50	Allowable load to achieve L/200 (0.5%) (kN/m ²)	413.1	206.6	61.2	32.1	18.8	11.9	8	5.7	4.1	3.1	2.4	
Type 100	Allowable load to achieve L/200 (0.5%) (kN/m ²)	1021.5	510.7	306.4	245.2	159.6	103.3	70.5	50.1	36.9	27.9	21.6	

Data based on extrapolation of Live Load test information

DURADECK Fibreglass Trench Covers

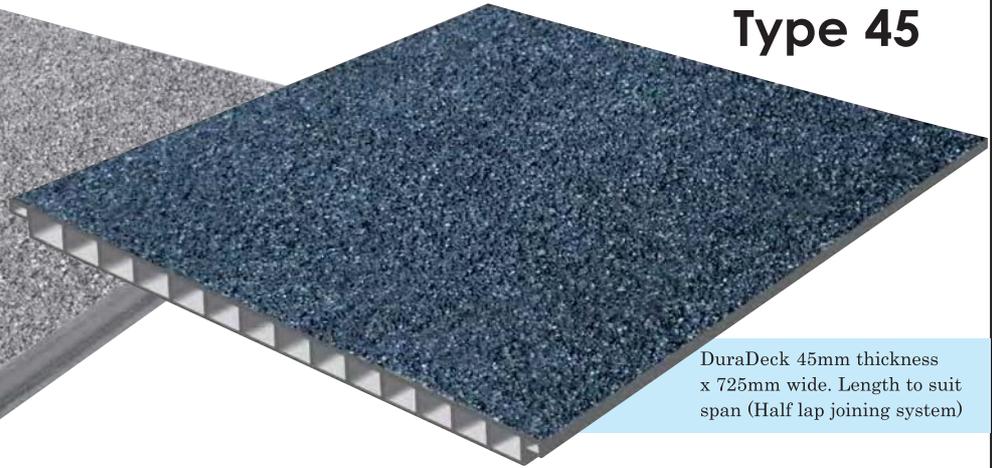
Precision Engineered Pultruded Fibreglass Trench Covers to BS EN124

Type 40 (light)



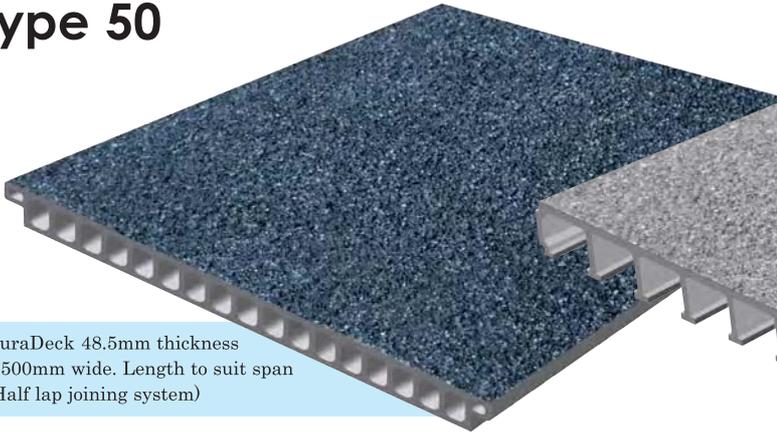
DuraDeck 40mm thickness
x 500mm wide. Length to suit span
(Interlocking joining system)

Type 45



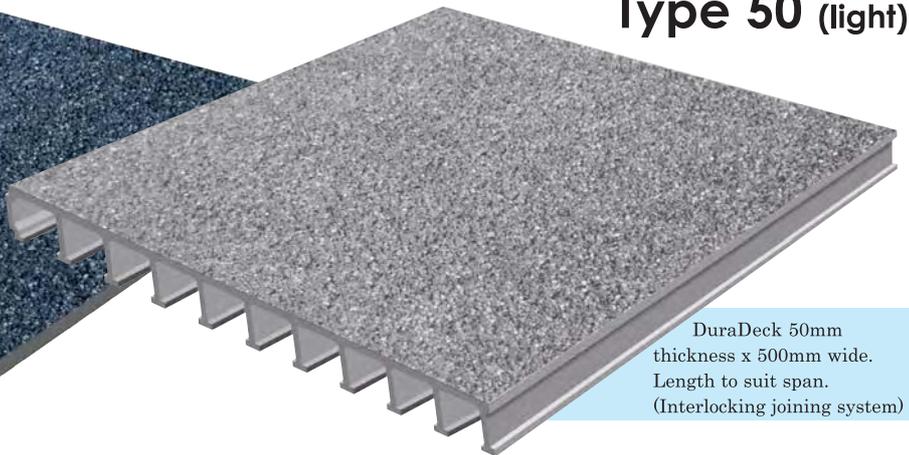
DuraDeck 45mm thickness
x 725mm wide. Length to suit
span (Half lap joining system)

Type 50



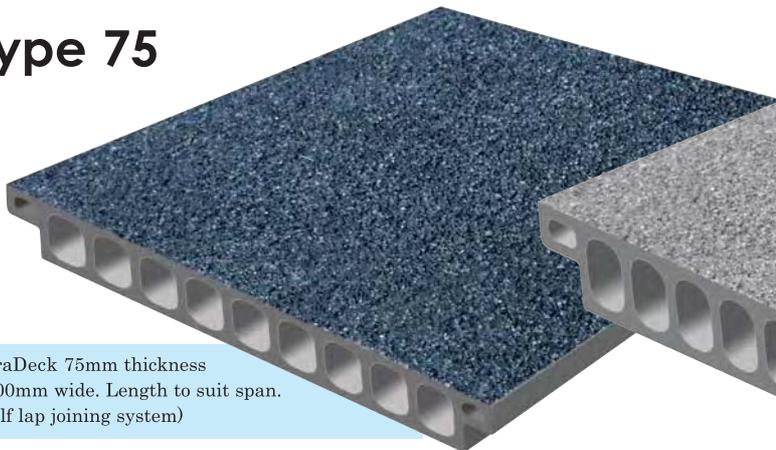
DuraDeck 48.5mm thickness
x 500mm wide. Length to suit span
(Half lap joining system)

Type 50 (light)



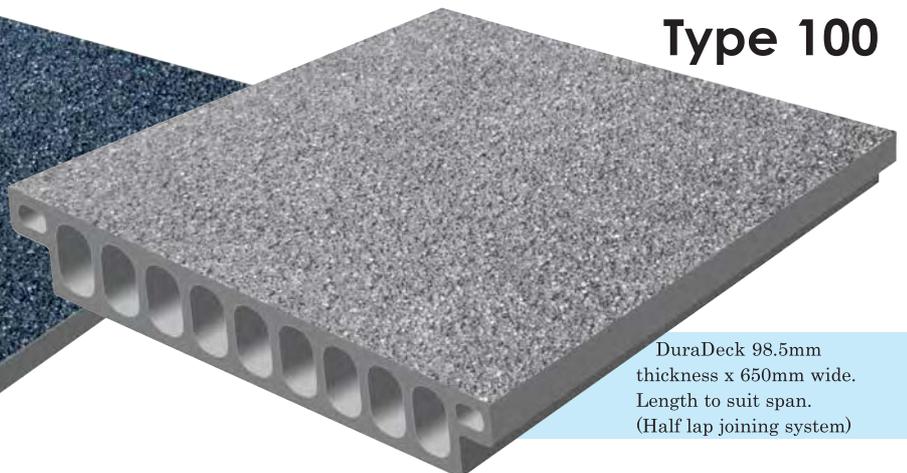
DuraDeck 50mm
thickness x 500mm wide.
Length to suit span.
(Interlocking joining system)

Type 75



DuraDeck 75mm thickness
x 600mm wide. Length to suit span.
(Half lap joining system)

Type 100



DuraDeck 98.5mm
thickness x 650mm wide.
Length to suit span.
(Half lap joining system)

Available shortly, please ask for details

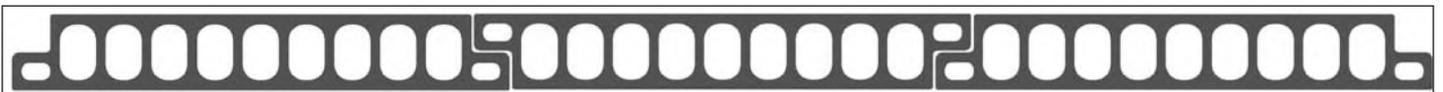


Illustration shows how the half lap trench covers join together allowing easy removal for maintenance access

Duct Covers

Comments

“When MEP were asked to replace all the pipe-work for the services, we took the opportunity to recommend an alternative duct cover to replace the original concrete material. The idea was to better fulfil key functional criteria: light weight for easy handling and easy access, high load bearing strength, anti-slip surface for all conditions and colour matched to surrounding flooring. Probably the biggest benefit and single biggest reason Dura Deck was specified, was its light weight construction. This allows a 2 person lift and does away with the need for bulky and expensive heavy lifting equipment. The previous concrete duct cover only provided access to the services via manholes which were 10 metres apart. This meant that maintenance teams had to work in a confined space with limited light to reach control valves and carry out burst pipe repairs.”

Key Benefits for this application

- Anti-Slip walking surface
- Light Weight
- Health & Safety compliant
- Covers easily removed for access



Completed DuraDeck installation



DuraDeck allows easy maintenance access

Cable Duct Covers for British Telecom

DuraDeck panels were chosen by British Telecom for use as Cable Duct Covers at their Martlesham Heath laboratories as a result of the unique combination of benefits offered.

DuraDeck was found to provide the perfect blend of characteristics that enables low cost installation plus easy and quick access for routine maintenance.

Key Benefits for this application

- Fire resistant
- Covers easily removed for access
- Anti-Corrosive
- Fast installation
- Zero maintenance



FRP/GRP DuraDeck Flooring for Kier Project

DuraDeck panels are ideal for installations above ground level such as this new build residential development. Each DuraDeck panel can be joined seamlessly without the need for traditional grouting. The finished balcony proved extremely successful and as a consequence of this project, Kier London have gained further business with their client.

Key Benefits for this application

- Fire resistant
- No lifting equipment required
- Safe Anti-Slip surface
- Light Weight for easy installation
- Zero maintenance



DuraDeck was used on several floors of this residential development



Trench Covers for Macau Project

Comments

“The DuraDeck 5 ton trench cover was the only solution on the market that met all of our clients requirements. The biggest benefit of DuraDeck is that given the sensitive nature of the equipment on site and their light weight, they could be installed without the need for heavy lifting equipment. Once installed, the high load bearing capacity allows site staff to travel around the site using the trench covers without having to worry about specific crossing points”

“We also specified DuraDeck with built-in lifting eyes and lifting keys. This makes it very simple to install the panels and also to remove them for maintenance and servicing using the tools supplied. The anti-slip surface has already proven to be very effective. The installation period has coincided with very wet weather and I can report that there have been no incidents of site staff slipping or falling.”

Contract Manager, Wynn Macau Ltd.

Key Benefits for this application

- 5 ton load capacity
- No lifting equipment required
- Anti-Slip walking surface
- Light Weight
- Covers easily removed for access
- Fast installation



Installation process made easy through lightweight covers and lifting keys

Service Duct Covers

Comments

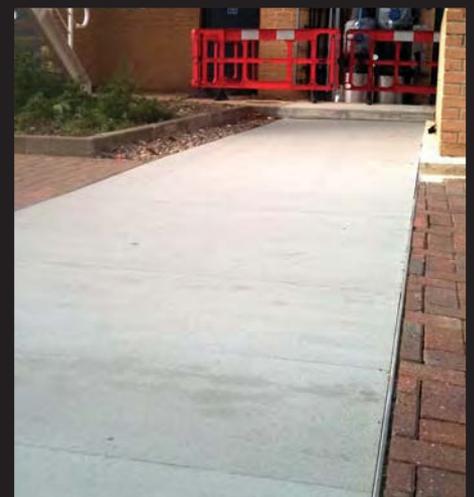
“Some of the key advantages of using DuraDeck for our replacement service duct covers relate to better accessibility and its light weight construction. DuraDeck improves Health & Safety in several ways. Previous concrete covers required at least 2 men to lift them and as a result of their significant weight, there was a risk of injury. Now that DuraDeck has been installed, it means that one man can now lift a duct cover by himself and then work on the services without any need for additional man power. This saves money and time and also means that we don't have any problems carrying out maintenance. Finally, we found that DuraDeck was cheaper than the quote we received for bespoke concrete covers with the special lifting eyes to suit a 2/3 man lift”

Key Benefits for this application

- No lifting equipment required
- Lower purchase cost
- Anti-Slip walking surface
- Light Weight
- Covers easily removed for access
- Zero maintenance



DURADECK Installations





DuraDeck fixing systems

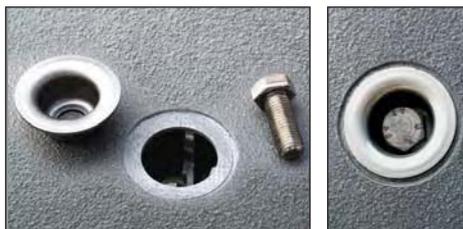
Fixing types



Various mechanical fixings are available

- Nut and bolt
- Fischer Rawlbolts
- Coach screw (Anti-tamper available)

Securing Methods



- Recessed collar (illustrated)
- Counter sunk
- Dome head bolt and washer

Lifting Systems



- T-Bar lifting handles (illustrated)
- Lifting Eyes (can suit 1,2 or 4 man lift)

DuraDeck manufacturing process



Glassfibre rovings and matting reinforcement



Chemical grade resin dip bath



Final pultruded resin glassfibre Dura Slab

Pultruded DuraDeck Profiles are manufactured by combining various resins with pure glassfibre reinforcement. They are formed and cured in a continuous process creating a product of extraordinary strength and resilience. The resultant profile offers a combination of benefits and mechanical properties exceeding those of metal. Weighing up to 80% less than steel and concrete, DuraDeck offers equivalent performance for considerably less weight. This results in major weight savings and lower installation and servicing removal costs due to more economical transportation, handling and on site positioning. The high strength to weight ratio has particular relevance for many applications in the structural flooring, trench, gully and duct cover industries.

Concrete and steel trench covers deteriorate over time and require replacement to meet Health and Safety regulations

Photographs illustrate existing concrete and steel trench covers. They show signs of severe damage and weakened strength which may result in trip hazards, serious injuries or vehicles breaking through.



Lower Costs

DuraDeck can provide significant savings over the use of most other materials when taking into account 'life cycle costs'. This is due to the fact that heavy installation equipment is eliminated, there is zero maintenance plus the fact that access can be provided for servicing simply by lifting the panels.

Anti-Slip

DuraDeck flooring features a gritted surface that provides outstanding anti-slip protection for personnel - in wet and oily environments. The grit is embedded in the top surface of each panel prior to curing. This combination of integral construction, plus depth of the embedded grit, creates a long-lasting maximum anti-slip top surface.

Maintenance Free

The use of DuraDeck virtually eliminates maintenance. This can drastically reduce costs since painting is not required, and UV inhibitors protect against degradation from the sun which means the material does not need replacing.

Mechanical Strength

Breaking strength under a lateral force is exceptional. The uni-directional continuous fibreglass reinforcement offers numerous advantages, including rigidity, shock-resistance and no permanent deformation after overloading. These factors provide excellent mechanical strength and a generous factor of safety. Fibreglass is designed for maximum safety in intensive industrial use.

Easy Installation

DuraDeck panels weigh about one-quarter as much as steel covers. Two men can easily handle full panels, without the need for hoists, pulleys or dollies. If the panels need to be moved for cleaning, maintenance or utility access, there is less chance of back injuries. The lightweight design of the material therefore reduces installation costs.

Low Installation Costs

Fibreglass weighs considerably less than conventional materials, and is easier and less expensive to transport, install and remove. Only simple hand tools are required for installation and removal, eliminating the need for costly equipment and labour costs associated with heavy lifting, cutting and welding equipment.

玻璃纖維創新
環保產品系列

▶ ▶ ▶ www.dura.hk

info@dura.hk



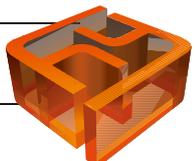
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ISO 9001:2008 CERTIFIED

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Yeung's Fiberglass Company
Government Approved Specialist Contractor

Unit F, 23/FL, CNT Tower
338 Hennessy Road
Wanchai, Hong Kong
Tel: (852) 2893 8865
Fax: (852) 2893 6321
E-mail: yeungs@fiberglass.com.hk
Web: www.fiberglass.com.hk

楊氏玻璃纖維公司

香港灣仔軒尼詩道338號
北海中心 23 樓 F 室
電話: (852) 2893 8865
傳真: (852) 2893 6321
電郵: yeungs@fiberglass.com.hk
國際網絡: <http://www.fiberglass.com.hk>

