



a Williams Lea company



Our Heritage

TSO has 200 years' experience of providing publishing and information solutions to the public sector. We specialize in the creation, production and distribution of information in print, online and electronic formats. TSO is part of Williams Lea.

TSO delivers information management and publishing solutions that focus on consultancy, infrastructure efficiencies, and offer best-inclass services. We are a specialist publishing business in official and regulatory publications and products for a global audience.

From our origins as a print shop in London, to our evolution today as a global content delivery leader, our business is built on a strong heritage, great relationships and a talented team.



The Brief

A visual & digital health risk identification tracker which enables Risk awareness & analysis using a materials risk library database For Designers to convey "residual risks" in design information to a contractor to include & price for control or mitigation measures in the tender

To create a level playing field for contractors pricing......

For acceptance by the client and design team......

For Contractors to convey to sub-contractors and operatives to implement on site

For checking that these measures are implemented......

For preventing ill-health due to construction methods

For confirming to the HSE that appropriate methods were used.

Is it just for Mobile?

Actually, no... We can build store Apps for most platforms, and then there's the web.





Desig	ner's health ha	azard awarenes	s matrix		Contractor's	s risk mana	gement mat	rix	Other Guidance
Project:-	< Insert name >						RIBA Work Stag	ge :- < <i>Insert</i> >	Date:- < Insert>
Ref. No	HAZARD- Material, hazardous activity, location, etc	SIGNIFICANT RISKS Non-Generic but Trade & Project Specific Risks	PERSONS AT RISK	ELIMINATE or AVOID risks SFARP Mitigation	(During all design	IIZE risks ALARP I stages) tems of work option	_	INFORMATION To be provided with the design	OTHER SPECIALIST GUIDANCE & COMMENTS Health Issues, Busy Builder, Further References
Ref.	Material or Activity	Type of Significant Risk	Individual or multiple	Do not use 0r minimise risk	Mitigation method option - 1	Mitigation method option -2	Mitigation method option –3	Other Project Documentation	Further Information
1.0.	BLOCK PAVIORS	Generic /Trade specific risks are those that should be mitigated by trained and experienced tradesmen	Many people can be affected by dust & noise whether operatives, supervisors, visitors, neighbours, the environment	To eliminate may not be a viable option	Use of designer skills to achieve visual intent with minimisation of harmful potential	Use of designer skills to achieve visual intent with minimisation of harmful potential	Use of designer skills to achieve visual intent with minimisation of harmful potential	Refer to :- Project drawings cross referenced Specification Cost Plan	HSE Research Report RR878 -Respiratory issue report Wear eye protection Signage Specialist Design or client input Climatic conditions Costs/ Benefits
1.1		Musculo-Skeletal injuries during laying	Operatives,	Minimise manual andling of large acks of blocks. Ise nechanistion	Reducing size or complexity of units or elements 2500mm nominal Manufactured half block	Encourage Mechanisation by using large units Climatic conditions or space issues may prevent		Access, size of project and duration for mechanisation will dictate the methods chosen. Small refurbishments may not justify the use of large plant.	HSE Research Report Wear eye protection
1.2		Respiratory Risks during cutting	Operatives Other workers Site staff Neighbours Public	Minimise cut blocks in paving pattern	Use mechanical cutting techniques	Ensure Water suppression used	Use Containment, suppression, etc	On site availability of suitable cutting equipment and containment to cutting areas is essential	HSE Research Report RR878 -Respiratory issue report Wear eye protection

Team Sign -off status	Client	Architect	Struct. Eng	Services Eng	
Others	P.Cont.	PDes.	Trade Con	. Cost Consultant	

Desig	ner's health ha	azard awarenes	ss matrix		Contractor'	s risk mana		Other Guidance	
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Ref.	Material or Activity	Type of Significant Risk	Individual or multiple	Do not use 0r minimise risk	Mitigation method option - 1	Mitigation method option -2	Mitigation method option –3	Other Project Documentation	Further Information
1.3		Hand arm vibration during cutting	Operatives	Reduce the need or cutting. Cannot eliminate.	Use Special Blocks 2500mm nominal	Use block splitter		(insert)	HSE Research Document etc
1.4			Operatives	Jse different locks with Less utting in rthogonal layout	Avoid cutting	Use mechanisation	Vacuum extraction	Face fitting masks	
2.0	Pile Cropping						CATACTOTT		
2.1	Trimming pile caps safely to the correct length	Musculo-Skeletal , Hearing and HAV injuries during cutting with hand tools	Operatives	Elliott Method	Recepieux Method	Mr.Cropper equipment	Skanska Cementation system	Contractor and team to agree preferred method of pile cropping. Cost, access and availability will be major factors to consider.	www.elliott-europe.com www.recepieux.com www.mrcropper.co.uk http://www.hse.gov.uk/vibration/ha v/campaign/construction/pilecrop.p df

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.0	Large concrete interlocking roof tiles	that produce silica dust when cut.							
ĒG.		Generic /Trade specific risks are those that should be mitigated by trained and experienced tradesmen	Many people can be affected by dust & noise whether operatives, supervisors, visitors, neighbours, the environment	This may not be a viable option	Use of designer skills to achieve visual intent with minimisation of harmful potential	Use of designer skills to achieve visual intent with minimisation of harmful potential	Use of designer skills to achieve visual intent with minimisation of harmful potential	Refer to: Project drawings cross referenced Specification Cost Plan	HSE Research Report RR878 - Respiratory issue report Signage Specialist Design or client input Climatic conditions Costs/ Benefits
1.1		Musculo-Skeletal injuries during moving and handling of roof tiles	Operatives	X	Utilising a forklift truck and loading bay eliminate the need to manually move the roof tiles from ground to roof level	Roof tile bump/elevator allows tiles to be mechanically moved to the scaffold platform. Tiles should be split into smaller manageable piles.	Gin wheel and rope is labour intensive and should only be selected where access or there is lack of an electrical supply.	Access, size of project and duration for mechanisation will dictate the method chosen. Small refurbishments may not justify the use of large plant.	HSG33 – Health & Safety in Roof Work National Federation of Roofing Contractors - Helpdesk@nfrc.co.u Fye protection must be worn Respiratory, equipment must be worn Safety boots must be worn Safety boots must be worn Safety boots must be worn
1.2		Respiratory Risks during cutting roof tiles	Operatives; Other workers; Site staff; Neighbours; Members of the	Natural slates are traditionally cut by hand or non-mechanical means thus removing the risk of silca dust.	Slates to be cut with a guillotine.	Manually cut using handheld slate cutter.	Manually cut slates using traditional cutting tools	M-Class Rated Industrial Vacuum Cleaner required to clean up slate waste from cuts.	HSG33 – Health & Safety in Roof Work National Federation of Roofing Contractors - Helpdesk@nfrc.co.u Eye protection must be worn Respiratory, equipment must be worn Safety Doots must be worn Safety Doots must be worn Safety Joons must be worn

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1.3		Respiratory Risks during cutting roof tiles	Operatives; Other workers; Site staff; Neighbours; Members of the 'ublic.	Select plain roof tiles that can be cut by non-mechanical means thus removing the risk of silca dust. These can be either clay or concrete roof tiles.	Minimise cuts by design; i.e. minimise dormer windows, valley's, hips within the roof structure design.	Cut roof tiles using tile cutting nibbler designed for cutting clay plain roof tiles.	Manually cut roof tiles using a scribe and a handheld tile nibbler.	M-Class Rated Industrial Vacuum Cleaner required to clean up roof tile waste from cuts.	HSG33 – Health & Safety in Roof Work National Federation of Roofing Contractors - Helpdesk@nfrc.co.ul Eye protection must be worn Safety helmet must be worn Safety boots must be worn
1.4		Respiratory Risks during cutting roof tiles	Operatives; Other workers; Site staff; Neighbours; Members of the Public.		Dry cut tile saw which collects 99.5% of the silica dust created by cutting the roof tile	Incorporating a jig to hold the roof tile secure, safely allows the tile to be cut, using the cut off machine (disc-cutter) and the suppression of silica dust whilst cutting	RPE must be worn when cutting roof tiles mechanically. Disposable masks meeting the APF of 20 are marked FFP3. The changeable filters used in combination with a reusable mask are marked P3.	On site availability of suitable cutting equipment and containment to cutting areas is essential.	HSE Research Report RR878 - Respiratory issue report HSG33 - Health & Safety in Roof Work National Federation of Roofing Contractors - Helpdesk@nfrc.co.ul Eye protection must be worn Safety helmet must be worn Safety boots must be worn Safety boots must be worn Safety gloves must be worn

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1.5		Hand Arm Vibration (HAV) during cutting root tiles.	Operatives f		Use bench saw to cut tiles.	Manual cut tiles. Note: labour Intensive; does not provide a clean	surveillance	HSE - Hand-arm vibration at work guidance.	HSE HAV's Calculator HAND-ARM VIBRATION EXPOSURE CALCULATOR (1992) 4-3 Jacopy	

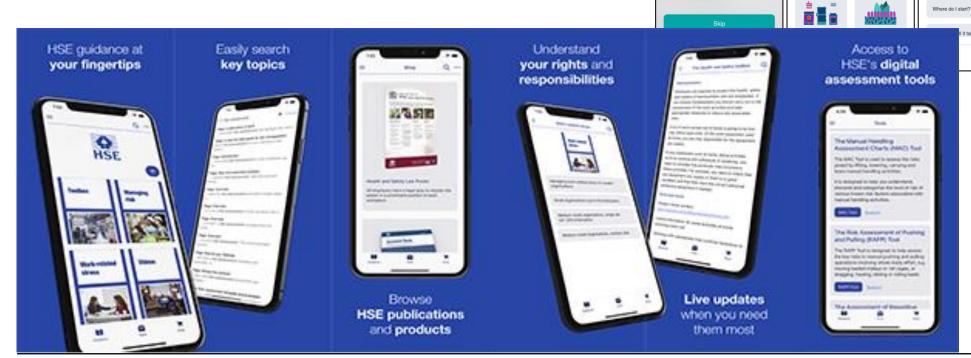


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Website in your pocket

TSO's has developed apps for HSE and Trustmark.

And TSO is developing an app for the Maritime and Coastguard Agency (MCA) and A welcome to the UK app for the Home Office that are due for release in the next 3-6 months.





Q :

Q & =

** TRUSTMARK

Where are you?

What do you need?

e.g. 'retrofit' and 'electrician'

Find A Tradesperson

◀ Heading 1

Where do I start?

Where do I start?

General considerations

Planning & regulations

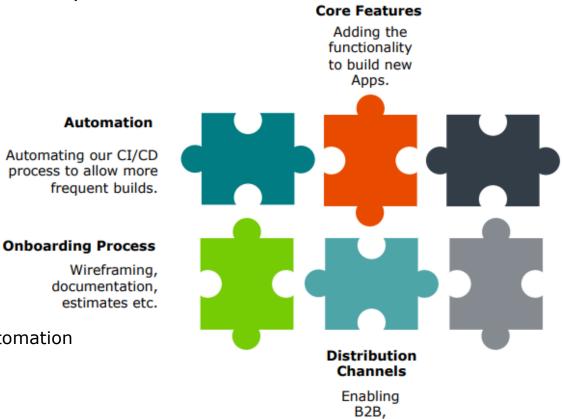
TRUSTMARK

in nonbibendum sem, a commodo metus.

Roadmap to 2023

Some of the key elements of TSO's roadmap for the next 12 months are:

- Enhanced search
- Checklist support
- Support for bulk sales
- User accounts
- LMS Integration
- Optimisation for larger screen sizes
- Improved learning science
- Notifications and marketing communications automation
- Ongoing UX review and improvements.



B2B2C etc

Content

Process & ETL

Defining standard formats and processes to reduce complexity.

Long-term strategy

Integration with other systems & solutions, increased self-service.

All of our clients that use the app platform benefits from the ongoing programme of improvements and feature development.



Helping to Deliver an App

Planning Stages

- Creating mocked up example
- Developing the product scope
- Supporting the development of the business case

Delivery Stage

- Branding and design, creating a wire frame design
- Creating topic template for authors to complete
- Editorial
- Building the app
- Managing the testing process

Launch and Beyond

- Creating product app store descriptions, graphics and name
- Provide ongoing analytics on how the app is being used
- Provide annual updates aligned to new operating systems for iOS and Android.

All of our clients that use the app platform benefits from the ongoing programme of improvements and feature development.



Additional Services

Content Creation

- Author selection and management
- Project management for content creation
- Author support
- Images (including graphic design and licensing of images)
- Content design and structure

Marketing

- Managing Apple and Google pay per clink (PPC) in store advertising
- Trade press adverts
- Events attendance and promotion.

Bespoke

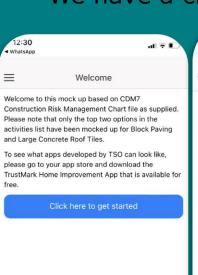
 Typically, our clients benefit from improvements delivered as part of TSO's roadmap. However, if there is a feature only required by one client and can not be reused, there may be a charge involved.

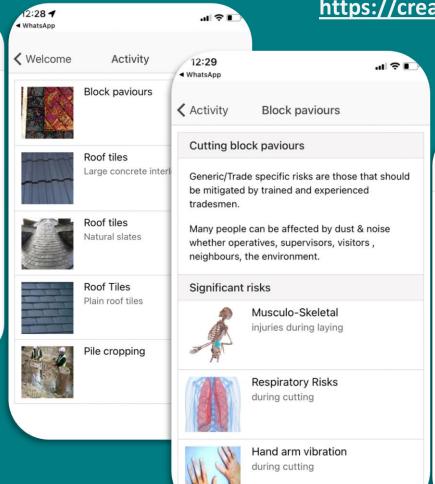
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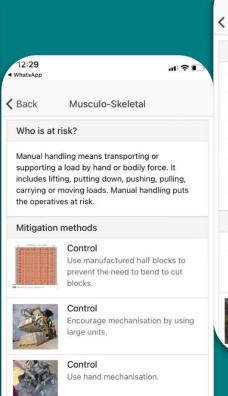


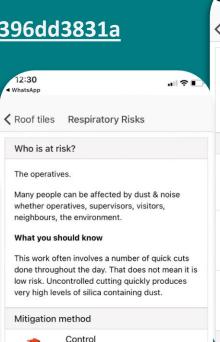
What could your App look like?

We have a created a mock of how an app could look for you... https://creator.ionic.io/share/a7396dd3831a









Dry cut tile saw which collects

cutting the roof tile.

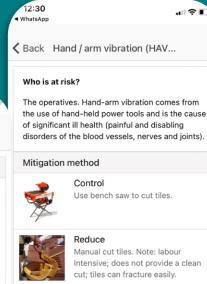
Use on tools extraction

Control

99.5% of the silica dust created by

incorporating a jig to hold the roof

tile secure, safely allows the tile to be cut, using the cut off machine





Health surveillance

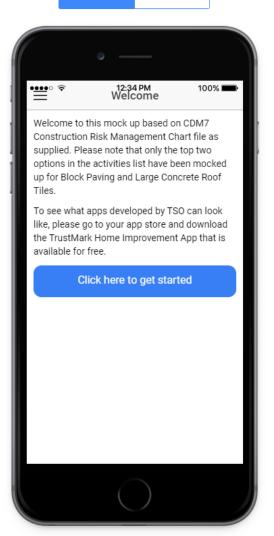
Having a system to look for early signs of ill health caused by vibration hazards at work.

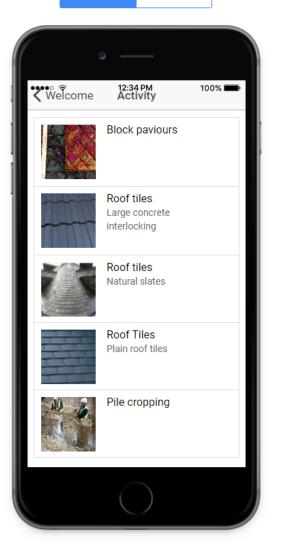
Further information

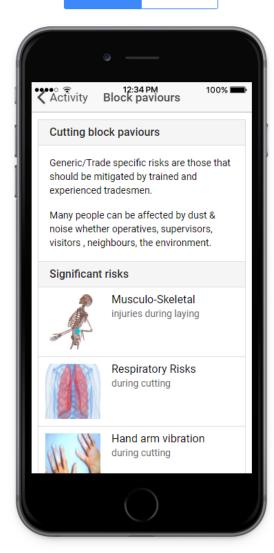


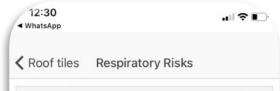
Further information

Android









Who is at risk?

The operatives.

Many people can be affected by dust & noise whether operatives, supervisors, visitors, neighbours, the environment.

What you should know

This work often involves a number of quick cuts done throughout the day. That does not mean it is low risk. Uncontrolled cutting quickly produces very high levels of silica containing dust.

Mitigation method



Control

Dry cut tile saw which collects 99.5% of the silica dust created by cutting the roof tile.



Control

Use on tools extraction incorporating a jig to hold the roof tile secure, safely allows the tile to be cut, using the cut off machine

What else do you need to know so we can proceed in creating an app for you?

How much will this all COST?

