

RISER STATUTORY REGULATIONS

Don't get your fingers burned. Use our guide inside to help you through the statutory regulations / instruments that you need to be aware of with regard to risks within riser openings

Statutory Regulation / Instruments	Risk to mitigate in risers	Mitigation responsibility	Product compliance	Observations
		Employers Agent Principal designer Design Team Principal Contractor	GRP grating - Ortho resin GRP grating Iso resin GRP grating Phenolic resin RiserSafe system	
HSG 168 - Fire Safety in Construction 46 Remove or reduce sources of fuel There are various ways that you can reduce the risks caused by materials and substances that burn, for example: Substitute with less flammable materials	Fire - ensure flooring is not flammable	✓ ✓ ✓	✓ ✓	https://vimeo.com/365946909 See comparison video
313. The compartmentation will need to prevent the passage of smoke and flames both vertically and horizontally. The following actions should be undertaken at the earliest opportunity: Compartmentation in buildings over 18m should be created using temporary fire resisting materials...Vertical risers, should be closed off at all levels with self closing doors having 30 minutes fire resistance	Smoke and flame - does product prevent smoke and flame from a lower floor entering an upper floor (and therefore negate the need for temporary fire doors)?	✓ ✓ ✓	✓	GRP grating is open. See fire test video*, with RiserSafe no smoke or flames pass to upper floors and shaft temperature above Riser platform reaches a maximum of 54°C
313 (cont).. Where reasonably practicable, all vertical shafts should be horizontally compartmented at intervals deemed appropriate in the fire risk assessment (not exceeding 10 floors) to prevent the upward or downward spread of smoke and flames	Smoke and flame - product needs to be able to accept fire stopping compound every 10th floor	✓	✓	Fire stopping manufacturers do not consider GRP as a suitable substrate
Approved Document B Requirement B3. The building must be built such that all of the following are achieved in the event of a fire: d. the unseen spread of fire and smoke in cavities is restricted	Fire and smoke - ensure that product is not flammable	✓ ✓	✓ ✓	Ortho and Iso resin GRP burn fiercely at 670°C +, see comparison video*
Requirement B2(1) To inhibit the spread of fire within the building, the internal linings shall - (a) adequately resist the spread of flame over the surfaces and (b) have, if ignited, either a rate of heat release, or fire growth, which is reasonable in the circumstances	Fire - ensure if ignited low heat release / fire growth	✓ ✓	✓ ✓	Ortho and Iso resin GRP burn fiercely at 670°C +, see comparison video*
CDM (2015) Table 1, Clients to ensure that Principal Designer identify risks in preconstruction phase	Risks in risers are falls, fire, smoke	✓ ✓	✓ ✓ ✓ ✓ ✓ ✓	GRP grating addresses falls only (Phenolic resin based GRP grating address falls and fire)
103 Once risks have been identified, principal designers must as far as reasonably practicable, ensure that the design team (a) eliminate the risks associated with design elements..	Falls, fire and smoke - does product eliminate these risks	✓ ✓	✓	GRP grating addresses falls only
Joint CoP - Fire Prevention on Construction Sites - 9th edition 5.1 Design phase. The client shall require the client-appointed parties (principal designers, designers, principal contractors and contractors), to properly discharge their duties under the terms of the regulations. In particular there is a requirement for these parties to co-operate and co-ordinate their activities at all phases of the contract... to identify and eliminate hazards... to ensure that the fire risk and potential for damage have been fully considered to keep to a minimum during construction and use	Fire - does product eliminate fire risk potential	✓ ✓ ✓ ✓	✓ ✓	Ortho and Iso resin GRP burn fiercely at 670°C +, see comparison video*
5.2 Consideration should be given to all potential fire hazards which may be identifiable at the design stage. These may be managed by considering:				
(a) the use of non-combustible and non flammable materials to reduce the fire load	Fire - does product reduce fire load	✓ ✓	✓ ✓	Ortho and Iso resin GRP burn fiercely at 670°C +, see comparison video*
(b) materials and methods that avoid hot works on site	Hot works - does product eliminate	✓ ✓	✓ ✓ ✓ ✓	
(c) design details that prevent the passage of smoke and flames up through a building during the construction phase	Smoke and flame - product to prevent the upward spread of smoke or flame during construction	✓ ✓	✓	GRP grating is open
22.5 Where reasonably practicable, the building should be horizontally fire compartmented at intervals not exceeding 10 floors, to prevent the upward (or downward) spread of smoke and flames. This should be done at the earliest practical opportunity after construction of each of the relevant floors, using fire stopping materials having no less than 30 minutes fire resistance..	Smoke and flame - product to prevent the upward or downward spread of smoke or flame	✓	✓	Manufactures advise that GRP grating should not be as a substrate for fire compound
22.7 Risers... should be closed off with doors having 30 minute fire resistance to separate them from the floors, and must be fitted at all levels. These doors should ... only be opened when work is actually in progress at that level	Smoke and flame - does product prevent smoke and flame from a lower floor entering an upper floor (and therefore negate the need for temporary fire doors)?	✓	✓	See fire test video*, with RiserSafe no smoke or flames pass to upper floors and shaft temperature above Riser platform reaches a maximum of 54°C
Working at Height Regulations (2005) Work at height means work in any place where, if there were no precautions in place, a person could fall a distance liable to cause personal injury. For example you are working at height if you; (c) could fall into an opening in a floor or hole in the ground	Fall - does product prevent falls from height	✓ ✓ ✓	✓ ✓ ✓ ✓	

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