

ix years ago this month, sprinklers in high-rise blocks. three women and three in another high-rise tragedy at Shirley Towers in Southampton.

12 months later, two firefighters died the way it's meant to', says Keith Brooks, head of prevention and pro-At both inquests into these two Service and deputy spokesperson on sprinklers increase,' says Mr Brooks. classified 'high-rise' as anything over fatal fires in local authority tower sprinklers for the Chief Fire Officers blocks, the coroners used their Rule Association (CFOA). Fires in tower ing has found that, to date, only 13% 43 letters - recommendations to pre- blocks are more dangerous for fire- of stock-holding councils in England vent future deaths - to say that social fighters, he adds, and sprinklers help with high-rise accommodation have Legally, there is no requirement for

growth, keeping escape routes tenablock flats. The reason is clear: sprinklers save ble and mitigating against 'unseen' children lost their lives in a lives. Nobody has died in a fire in the risks such as tangled cables, which to 151 stock-holding local authorities devastating fire at Lakanal UK at a property with 'a properly were highlighted as an issue during found 87 (58%) own a combined total House in London. Less than installed sprinkler system working the inquest into the deaths of fire- of 2,925 high-rise residential tower fighters at Shirley Towers.

> 'CFOA would obviously like to see tection at Cheshire Fire and Rescue the number of high-rise blocks with of their blocks in metres generally

> > Yet an investigation by *Inside Hous*-five or six storeys.

A Freedom of Information request blocks, which are 18 metres or higher. Councils that did not know the height

Sprinklers recommended

landlords should consider retrofitting keep them safe by controlling fire sprinklers within any of their tower councils to retrofit sprinklers to these

blocks (see box, overleaf). However following the inquests into the deaths Keith Wiseman, the coroner for the of Catherine Hickman, Dayana Franinquest into the deaths of firefighters cisquini, Thais Francisquini, Felipe Alan Bannon and James Shears at Francisquini Cervi, Helen Udoaka would like to see the 16-storey Shirley Towers in April and Michelle Udoaka at Southwark 2010, suggested 'social housing pro- Council's 14-storey Lakanal House in viders should be encouraged to con- July 2009. In March 2013, she told the sider the retrofitting of sprinklers in then secretary of state Eric Pickles all existing high-rise buildings in the inquests had heard evidence that excess of 30 metres in height' - the retrofitting sprinklers in high-rise height sprinklers are required in new blocks might be possible 'at lower build blocks in England.

raised the retrofitting of sprinklers to residents'.

cost than had previously been Coroner Frances Kirkham also thought' and 'with modest disruption

"The Chief Fire **Officers Association** number of high-rise blocks with sprinklers

A pilot in September 2011, funded by trade body the British Automatic Fire Sprinkler Association (BAFSA), at the 13-storey Handbank sheltered housing block on the Gleadless Estate at Callow Mount, Sheffield, had shown sprinklers could be retrofitted, without decanting tenants, at an average cost of just under £1,150 per

Following the Shirley Towers and Lakanal fires, Southampton and Southwark Council's unveiled plans to improve fire safety, including ▶

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Fire special

installing sprinklers. Southampton disruption to tenants that Runny-Council's cabinet approved in Febru- mede Council is retrofitting sprinary a £1m project to retrofit sprinklers klers to flats within its only tower to all flats and some communal areas block - the 16-storey Surrey Towers in including Shirley Towers, with work subject to major internal works, or at any sprinklers in high-rise blocks expected to start this autumn.

blocks - the largest number of blocks ago in consultation with Surrey Fire reported by any council. As previ- and Rescue Service after reviewing its ously reported by Inside Housing, fire risk assessment in light of the cor-Southwark is installing sprinklers in oner's ruling following the Shirley existing sheltered housing schemes Towers blaze. It has fitted out 18 of and temporary accommodation hos- the 95 flats so far, at a cost of approxitels by September 2016, and to such mately £1,200 per home, a sum that future blocks, as part of £48m of fire is probably easier to bear if you only safety improvements. A report to the have one high-rise block. By contrast, council's cabinet in February sug- some of the city councils we surveyed gested the work in 12 of 20 sheltered housing schemes, and seven of 19 The Gateshead Housing Company, temporary accommodation hostels, the arm's-length management organiwill be completed by this month.

But what steps have other local homes on behalf of Gateshead Counauthorities taken to retrofit sprinklers cil, installed sprinklers to communal to high-rise blocks?

In response to our Freedom of Regent Court - one of its 25 tower Information request, approximately blocks - in 2013. It spent just over one in four of the 87 councils with £800,000 on fire safety improvehigh-rise stock said they have sprin- ment works after a fire risk klers in areas such as bin stores, laun- assessment found traditional dry rooms and car parks across a compartmentation, a design combined total of 187 blocks. The strategy aimed at inhibiting true total will be higher, however, the rapid spread of fire, would because some councils do not count a be 'impractical' due to this bin store as a communal area. Thereblock's particular layout. fore, one council that did reveal it However it is not just the had sprinklers in bin rooms didn't design of blocks influencing give us a block-by-block breakdown, councils' decisions, but also and there may be other authorities the - often vulnerable - peothat didn't tell us about sprinklers in ple living in them. Manchesthese areas.

Retrofitting sprinklers

When asked whether they have sprin- when it turned the empty klers in each of their tower block high-rise block into an extra flats, only 11 councils (including care facility, while Leeds Counsome of those with sprinklers cil is prioritising the installation in communal areas) said they have of sprinklers in its sheltered retrofitted sprinklers in some - not all housing tower blocks. flats in a combined total of 18 It spent £227,200 retrofitting blocks.

dations from Cheshire Fire and Res- Grange next month. cue Service. Between July and retrofitting sprinklers to communal many cases now the risk will be areas and 90 of the 151 flats in its linked to the individual [resident] three blocks at Joseph Groome Tow-rather than the property,' says housers in Ellesmere Port.

installed in their properties and this cern. has prevented 100% installation to date,' says John Outram, head of sertenants who refused installation.'

the time of re-letting. The authority Southwark Council has 317 tower adopted the policy a couple of years have hundreds of tower blocks.

> sation managing nearly 20,000 areas and 160 flats at 10-storey

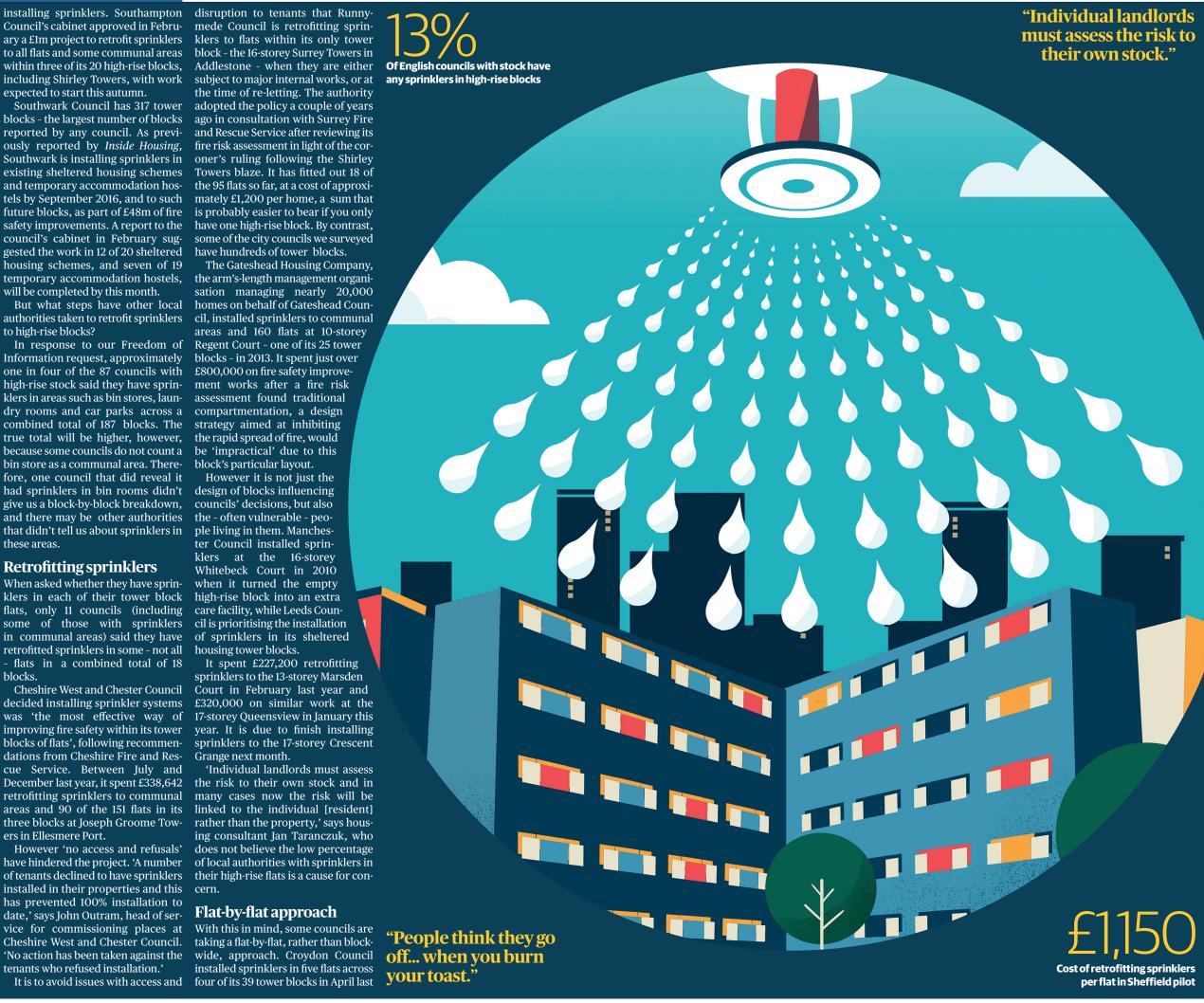
ter Council installed sprinklers at the 16-storey Whitebeck Court in 2010

sprinklers to the 13-storey Marsden Cheshire West and Chester Council Court in February last year and decided installing sprinkler systems £320,000 on similar work at the was 'the most effective way of 17-storey Queensview in January this improving fire safety within its tower year. It is due to finish installing blocks of flats', following recommen- sprinklers to the 17-storey Crescent

'Individual landlords must assess December last year, it spent £338,642 the risk to their own stock and in ing consultant Jan Taranczuk, who However 'no access and refusals' does not believe the low percentage have hindered the project. 'A number of local authorities with sprinklers in of tenants declined to have sprinklers their high-rise flats is a cause for con-

Flat-by-flat approach

No action has been taken against the wide, approach. Croydon Council off... when you burn installed sprinklers in five flats across It is to avoid issues with access and four of its 39 tower blocks in April last **your toast.**"



homes have portable sprinkler sys-rise, timber frame, ranch-style maient's health and ability to evacuate a are due to finish in October. building by themselves - which are typically placed in the lounge and the spent to actually improve the safety bedroom, and can be removed and of our tenants and residents living in reinstated at a new property if the a non-traditional building where we resident moves.

its 227 high-rise blocks, Camden escape,' says Janet Sharpe, director of Council spent £6,600 in September housing at Sheffield Council. 'It's a 2013 installing a 'misting system', significant amount of money but if we which emits a high-pressure haze of tried to retrofit lots of different fire water, within four flats occupied by safety measures, it probably would 'high-risk' residents in its 19-storey have equalled that cost.' Denton block. Steve Seaber, advisor on social housing to BAFSA, says case for sprinklers: the council once in residential settings because, as yet, and re-homing the affected tenants. there is not a published British standard for them, although one has been Working together approved for publication.

ther four told us they have plans flats and 'high-risk areas' rise fires. such as internal refuse 'extensive' floor identification system is the only solution.' on walls and floors. Work is

able people are being kept.'

Sheffield Council is using the learn-

Thelaw

Building regulations in England require sprinklers to be installed to flats in new residential blocks over 30 metres in height. In Scotland, sprinklers are required in new blocks above 18 metres.

Wales has required sprinklers in buildings such as new and converted care homes, hostels and halls of residence of any height since April 2014. All new or converted homes must have sprinklers from January 2016.

There is no requirement to retrofit sprinklers to existing high-rise blocks.

year following a request from its ings from its Callow Mount pilot to adult care and disability service. The retrofit sprinklers to about 540 lowtems - installed on the basis of a clisonettes. The £1.4m, one-year works

'I think £2,500 a flat is money well hadn't before been able to do all the While it doesn't have sprinklers in works to provide a safe means of

Ms Sharpe says there is a business questions remain about the effective-spent between £10,000 and £15,000 ness of mist systems, which were renovating a home following a fire, originally developed for use on ships, and also faced the costs of moving

A number of fire services are working In addition to the 11 councils with councils and housing associathat have installed sprinklers to tions on retrofitting sprinklers and individual high-rise flats, a fur- providing funding towards the cost.

Mr Brooks, of the Cheshire Fire and to do this. Among them is Rescue Service, says: 'While it's reas-Oxford Council, which is cur-suring that around a quarter of counrently selecting a contractor cils now have some sprinkler coverto undertake £18m of refurage in communal areas such as bin bishment works to its five rooms in some of their premises, partower blocks, including the tial sprinkler coverage should not be installation of sprinklers to seen as solving the problem of high-

'The value of sprinklers has obvistores, a 'comprehensive and ously been recognised, but to secure fully integrated' fire detec- all of the advantages they offer resition and alarm system, and dents, owners and firefighters, a full

So, in the face of the benefits, what due to start at the beginning of is stopping more councils from 2016 and continue through to installing this potentially life-saving measure in their tower blocks?

As our survey did not ask The Chartered Institute of Housing about future work, there could (CIH) recommends landlords conbe more tower block sprinkler sider installing sprinklers into homes projects in the pipeline. However, as part of their fire safety practice Mr Seaber says, 'The biggest growth checklist. 'However, we know that is in low-rise housing, particularly they have to balance this with cost sheltered housing and where vulner- considerations,' says Laura Shimili, policy and practice officer at CIH.

Mr Brooks believes decision-makers are also put off by 'myths' about sprinklers. 'People think they go off at once [rather than each sprinkler activating only when the temperature reaches a certain level], or they go off with a smoke detector when you burn your toast,' he says.

'I suspect they believe that a block will need decanting before installation can commence and that they activate or leak frequently, none of which is true. There is only a 500,000:1 chance of accidental activation through accidental impact.'

He adds: 'Sprinklers will save lives in tower blocks. What we won't know is how many, because people don't die when sprinklers are installed.' ■

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