

Protecting the Royal Albert Hall



Installation Summary

Problem:

Potential Terrorist Attacks

Solution:

Installed Armorcoat Window Film for Protection

Amount of film:

188 windows

Benefits:

188 windows are now Blast Proof

The Royal Albert Hall is an instantly recognisable world famous venue. Unfortunately, in the current climate, that also means it has to be protected from any potential terrorist attacks. Key to this is making the venue's 188 windows blast proof, which is why the Hall has installed Armorcoat, an innovative product by Bekaert that affords protection to all of the venue's internal and external glass.

Having a world wide reputation as an iconic concert venue can have its downside. That kind of profile can also translate into becoming a potential target for terrorists. 'Obviously, as with any public building these days, security is extremely important to us and it's something we take extremely seriously,' said the Royal Albert Hall's Operations Director, Amanda Squires. 'It's always something that's at the top of our agenda – we

are totally committed to ensuring the safety of all of our visitors, patrons and employees. The installation of Armorcoat clearly plays a key part in that because, in the case of anything happening, it prevents any injuries by fragments of glass.'

The film was installed less than a year ago by one of Bekaert's accredited installers, Invicta. 'If we do our job right then people don't know what we've done

– it's a clear product that just goes straight onto the glass itself,' said Bekaert's Sales Manager Ian Penfold. 'The problem with blasts is that 90 per cent of injuries and damage aren't caused by the blast itself, but by flying glass.'

Aarmorcoat is an adhesive film that is cut to size by the installer and easy to affix. Last year the Hall took the decision to remove the existing film from all external windows and replace it with

new 175 micron Armorcoat film to meet Home Office specifications for bomb blast protection, as well as replacing all the old film on the internal glass to meet Health and Safety Executive duty of care requirements.

'We had originally installed protective film at the Albert Hall about 12 years ago for bomb blast purposes at the time of the IRA's bombing campaign in London,' said Invicta's Sales Director Steve Thompson.

'This was an upgrade to the new Home Office bomb blast standard specification, which is 175 micron film – the old film was 100 micron. We replaced the film on all the external windows and doors and we also went a stage further and put film on all the internal glass in the corridors.'

'If somebody were to bring a bomb into the building, being a contained space it can obviously cause a lot of damage,' he continued. 'It's a risk assessment thing. It's less likely these days that you'd get the big vehicle bomb outside – it's more likely to be a case of someone trying to bring in small explosives in a rucksack and explode them inside. Most injuries in a bomb blast are caused by the flying shards of glass and that's something that we can quite easily reduce – the film holds the glass together and stops it spraying around, which is what causes damage. Glass can travel at huge speeds in an explosion and embed itself in walls and furniture, so it's an obvious risk to human life.'

Clearly, installing protective film on this kind of scale was always going to pose logistical problems at a venue as busy as the Hall, but Invicta managed the contract with a minimum of disruption.

'It was a very complex process of planning dates around when the work

could be carried out and co-ordinating lots of different departments because we pretty much have a show every day,' says Amanda Squires. 'By the end of 2007 we had had more than 360 shows, so you can see that we don't get much down time to keep the building looking lovely – and the Albert Hall is not the kind of building you can ever allow to look shabby.'



'We worked around their performances, so if they had a matinee for example we'd work to suit their hours,' says Steve Thompson. 'It was all done over a couple of months with no problem at all. The film comes in a roll and it's cut to just over the size of the glass. The glass is then thoroughly cleaned, the liner on the back of the film is pulled off, it's sprayed with water, positioned, trimmed and affixed. It's a fairly easy process but we have to train

teams of installers – it's not a DIY job. It doesn't cause any great disruption to the people in the building, unlike if you were re-glazing, which is a major disruption to the day to day workings.'

'Invicta worked closely with us and came in and did a full reconnaissance beforehand,' says Amanda Squires.

'There are 188 windows involved in the project so it's clearly a major job. The

'It means we don't have to worry about it for the next ten years,' says Amanda Squires.

'Once it's been installed – apart from the normal routine of window cleaning – it's very straightforward, so you don't notice it from a maintenance point of view either. It's very easy to maintain – there's no lifting or peeling or anything like that at all. You wouldn't know it was there.'

Perhaps unsurprisingly, there's a large and constant demand for Armorcoat at the moment. 'The demand is across the board, in London and across the country,' says Ian Penfold. 'That's for both government buildings and other major organisations – in fact, the Government has its own standing order.'

So would the Albert Hall install the product again? 'Yes, absolutely,' says Amanda Squires. 'I'd certainly recommend it to other organisations. It's lived up to its expectations, and the installation and ongoing maintenance have been very good. We're very satisfied with the product and very satisfied with the service we had from the installation contractors. We've had no issues at all.'

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