



Relcross door closers keep brewery green

Hillside Brewery, founded in Gloucestershire in 2014, is very much part of the local community, not just by employing local people but by supporting local businesses and providing a community facility in their bar and event centre. They are also very environmentally conscious. The installation runs on solar power, uses air and ground source heat pumps, recycles all its waste material and is a net exporter of energy.

So when they realised that the doors to their upstairs patio weren't closing properly, with consequent loss of heat and escape of noise into the local area, something had to be done.

- Product:** LCN Door Closers
- Client:** Hillside Brewery
- Location:** Longhope, Gloucestershire
- Specification:** LCN 4110 Smoothee® Heavy Duty and LCN 1461 Standard Duty Door Closers with Universal Mountings



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The problem was that the patio gives access to some stunning views of Gloucestershire scenery but, in return, is exposed to the elements and, on windy days, the door closers originally fitted just weren't good enough for the job. The doors open outwards and the prevailing wind is inclined to keep them open rather than blow them shut. Users weren't proving as fastidious as the owners of the brewery would have liked in closing the doors behind them and too often the doors were left unlatched and flapping.

A simple solution

As it turned out, the solution was simple. They contacted Relcross in Deveses and subsequently fitted a couple of LCN 4110 Smoothee®. This is LCN's best performing heavy duty closer designed specifically for institutional and other rugged, high traffic applications. It has a cast iron body and suits perimeter doors to 1067mm wide and a maximum weight of 136 kilos (300lbs). The LCN 4110 Smoothee® is fully adjustable through power sizes 1 to 5 and all LCN 4000 series closers have back check, closing speed and latch action hydraulic controls. The CNS arm feature stops the door at 90° on the opening arc to protect against the wind taking the door and causing damage to the door or frame or injury to anyone adjacent to the door. The LCN 4110 Smoothee® has been independently tested to 10 million cycles and holds UK Fire Certification in accordance with BS EN 1634-1:2014 (timber)



120 minutes or (steel) 60 minutes. The extra power and robustness of the LCN closer means the wind affected doors now close properly and securely eliminating the previous problems and ensuring Hillside Brewery maintain their green credentials.

Universal Mountings

But they didn't stop there. Hillside also took the opportunity of fitting LCN 1461 Standard duty closers on a number of their other doors including the main entrance double doors and the entrances to the kitchen and all three toilets. As you would expect, those on the ladies and gents cloakrooms are fitted on the pull side within the toilets whereas the closer on the disabled toilet is on the push side fitted externally. Like their heavy duty relatives, the LCN 1461 has a universal mounting and are non handed so can be fitted to both left and right swinging doors. The adjustable hydraulic backcheck cushions the opening swing prior to 90 degrees.

Again, cast iron is used for the body because there is no better material for a door closer than cast iron. The manufacturing process may be difficult (which is why just about every other closer manufacturer has turned to aluminium) but the end product lasts for decades. Since internal wear and tear is negligible, even after extreme usage, regular re-adjustment of control valves and spring power is not necessary.

On a final environmental note, Hillside make beer and their waste material goes to feed cattle whose milk is used to make ice-cream at a local manufacturer - and beer flavoured ice cream at that. A perfect recycling model?



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