**Press release**

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Steel to counteract “rough” operation / Roto: “NT rebate corner hinge E5” for timber windows in public buildings / Same geometry as the standard version / 1:1 replaceable / Impact further increased through combination with “Turn restrictor 355 with final position damping” / Important maintenance

**Steel rebate corner hinge for timber windows sets an example in schools**

***Leinfelden-Echterdingen – (rp)*** Windows for schools have to satisfy various requirements. In addition to an adequate air supply, plenty of daylight and effective sound insulation and protection against sunlight, the particular focus is their design. For example, design engineers should choose hardware with a “robust” design especially for classrooms with timber windows, as this type of hardware operates reliably for many years and guarantees sufficient strength.

With the steel “NT rebate corner hinge E5”, Roto is offering an ideal solution for school buildings and all other public buildings that are exposed to extreme loads. This hardware features the same geometry as the standard version and can therefore be replaced by this 1:1. Depending on the installation conditions, its buffer effect can be further increased through being used in combination with the “turn restrictor 355” with final position damping and sprung stop.

As the manufacturer goes on to explain, relevant guidelines now consider the “rough” use of windows to be a matter of course in schools. In addition, exceptional mechanical loads also arise when windows are repeatedly used carelessly. For instance, if open windows that get in pupils’ way are slammed against the reveal or surrounding furniture with considerable force, the hardware may become worn more quickly and a creak might even form in the corner hinge.

Roto rounds off its recommendations for the steel “NT rebate corner hinge E5” by pointing out the need for regular care and maintenance. According to Roto, timber windows and balcony doors should be checked at least once a year, with this interval being reduced to every six months in schools and hotels. This allows signs of wear to be detected in good time and any problems associated with this wear to be resolved by replacing the components affected.

**Caption**

Whether due to carelessness or mischief, it is to be expected that windows in schools will be subject to exceptional loads. This also has an effect on the design of these windows. According to Roto, the steel “NT rebate corner hinge E5” for timber windows effectively attenuates the strong forces that are exerted and therefore provides the requisite operating safety. This enables the public sector to benefits from long-term, sustainable investment.

**Photo:** Roto **NT\_Falzeckband\_E5.jpg**

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