



INNOVATION IN ACTION

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EJOT[®]

APPLITEC

centre

A unique resource in the UK creating worldwide fastening solutions

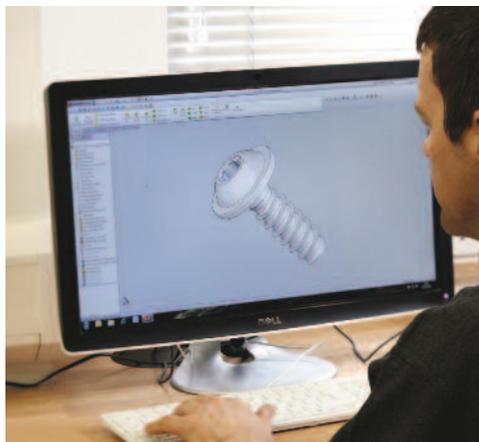
Technical excellence is at the heart of EJOT Group policy across the globe. Every year, thousands of assembly solutions for a multitude of products are tested by EJOT APPLITEC, both here in the UK and at our sister facilities at Bad Laasphe and Bad Berleburg, Germany.

This work provides sophisticated and valuable data on strengths and fastener capabilities for a wide variety of market sectors including automotive, onsite and offsite construction, security and defence, pharmaceuticals, white goods ...to name a few.

All market sectors are prioritising the need to meet the challenges of a tough economic climate and at the same time, pursue sustainable assembly solutions... hence the demand for innovation has seldom been greater.

Continued investment in EJOT APPLITEC here in the UK, is an acknowledgement of the facility's past record, and its objectives going forward.

EJOT® APPLITEC centre



A global knowledge base a world of solutions

APPLITEC... it's derived from two words; Application Technology. Yet it is far more than a brand; APPLITEC is at the heart of EJOT's business philosophy worldwide, with a network of sister laboratories that support EJOT facilities currently operating out of 27 countries... and growing!

That makes for a global team of qualified technicians, providing a collaboration of knowledge, experience and innovative thinking.

Here in the UK, our APPLITEC centre provides a modern, hi-tech showcase for this worldwide resource, and a highly successful platform to share with our client base.

Synergy across market sectors a common objective

EJOT's unique positioning is built on decades of experience gained from developing industrial fastening systems, significantly those produced for the automotive industry.

These complex development processes evolve from the design concept, through research and development, testing and refining and ultimately... perfecting.

This knowledge base has been the springboard for development testing going forward, for all the markets that EJOT products serve.

Synergy also finds common ground in legislative changes, across the sectors. These proven models combined with the technical expertise gained along the way are accumulative and key to the service we now provide.



The demand for innovation the value of partnerships

EJOT's APPLITEC technicians work alongside our Product Managers and Application Engineers, yet their role goes way beyond in-house support.

APPLITEC has become an extension to our clients' own development teams, forging partnerships that share an objective to find the right solution.

System Developers and Project Engineers are increasingly addressing fastening issues early in the design process. As a result, clients are reducing prototype expense, cutting assembly times and in many cases, playing a proactive role in creating a totally new fastening product or system.

Sustainable engineering solutions for our future

The challenges going forward are clear. Environmental considerations and sustainability lead the way. Industrial components need to be smaller and lighter without compromising joint strength. And each individual construction product has to perform ...and perform better than before.

That means every component has to collaborate with, and be sympathetic to all the products it has to work with, in order to optimise performance.

Modern methods of construction must achieve new technological heights and move away from a simplistic approach, in exactly the same way that we are witnessing the evolution of energy efficient motor vehicles.

Testing times? No, we prefer 'exciting times'.

Facility overview

Profile Projector

Accurately measures design features of fasteners, washers and rivets.

These include core diameter, thread pitch, thread angle, washer backing and EPDM hole diameters.

Hardness Test

Sectioned fasteners are mounted in acrylic resin and polished to a mirror finish. This allows accurate measuring of fastener hardness.

Surface and core are tested for hardness and depth to DIN 7504 standard. These criteria are crucial to fastener performance.

Tensometer Analysis

All aspects of fastener performance can be analysed; from tensile and shear to pullout and pullover testing in simulated application scenarios.

Results are presented as data report documents.

Torque analysis

Fasteners are tested throughout the four stages of installation; drilling, thread forming, tightening and thread stripping.

Data is stored on a portable analyser allowing onsite testing in application.

Online Prognosis software

EJOT's DeltaCalc program utilises fastener dimensioning to give an online analysis and assists in calculating load carrying capabilities. It also provides lifetime and durability forecasting under imposed conditions, for example temperature stress and static stress.

Demonstration area

Adjacent to our conference suite, EJOT APPLITEC is the perfect facility for hosting seminars and training events, alongside its daily testing and development schedule.

We have the capacity to create fully built up systems for both testing and training procedures. Training can be tailored for groups or individuals, from site installation teams to OEM's and system suppliers covering all the sectors that EJOT operate within.

Exhibition

The exhibition area creates an environment designed to promote creativity; an industry-focused workshop.

Consulting with our customer base is key and provides the spark that creates solutions. As a result, application development often evolves from the mutual input shared by our clients and our R & D team.

The EJOT logo consists of the letters 'EJOT' in a bold, white, sans-serif font, with a registered trademark symbol (®) to the upper right of the 'T'. The logo is centered within a solid red rectangular background.

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