

**DIETZEL**  
UNIVOLT

# SAFETY FIRST

DIETZEL UNIVOLT HFT® BELONGS TO THE MOST ADVANCED PLASTIC SYSTEMS AVAILABLE FOR ELECTRICAL INSTALLATIONS.

## WHAT IS DIETZEL UNIVOLT'S H.F.T.®?

Dietzel Univolt are renowned for being the first company to introduce rigid plastic conduits to the market, followed quickly by the development of corrugated conduits, fittings, cable ducting, drainage pipes and finally halogen-free plastic conduits (HFT).

Today, with a range of over 10,000 items, Univolt products can be found at major construction sites, as well as state-of-the-art building/refurbishment projects and many developments where attention to safety, quality and detail are paramount. The overall annual production comprises of more than 120 million metres of conduits (approximately three times around the equator) and around 60 million individual fittings. Whilst their core range of products incorporate PVC rigid conduits, flexible conduits skirting, dado and Maxi Trunkings, Dietzel Univolt are fully committed to developing products which are environmentally friendly and fully sustainable, hence, they have continued to design and produce innovative product ranges such as their HFT and Concrete system ranges.

The company's halogen-free, flame-retardant, temperature-resistant (HFT) range of conduits are not only low-smoke zero-halogen but also chlorine-free. As we are well aware, a fire itself produces flames and heat; however, this is not the only problem.

## THE CASE FOR INSTALLING LOW SMOKE ZERO HALOGEN (LSFOH) CONDUITS.

Often overlooked when installing conduits is the risk of toxic and caustic gases which can cause loss of life even before the true fire becomes apparent. When conventional plastics such as PVC are burned they release dioxins (extremely potent synthetic chemicals)

Dietzel Univolt HFT products will allow visibility in excess of 85% over a significantly increased period of time. Dietzel Univolt HFT conduits minimise the risk posed by these toxic elements.

and, as a result of combining hydrogen chloride gas with water molecules in the atmosphere, hydrochloric acid forms. This aggressive acid, aside from proving extremely noxious, can cause damage to buildings and equipment which can in most cases outweigh the cost of the actual fire damage.

Further complications occur as visibility can drop to as little as 10% in less than six minutes. Dietzel Univolt HFT products will allow visibility in excess of 85% over a significantly increased period of time.

Dietzel Univolt HFT conduits minimise the risk posed by these toxic elements. Installing the correct products can completely prevent the formation of hydrochloric acid; however, burning any organic material will release carbon monoxide - this is an unavoidable fact.

Dietzel Univolt HFT conduits are recommended for highly populated buildings such as hospitals, retail outlets, museums etc., in fact, any installation where the protection of life is an overwhelming factor. In the case of heavy duty HFT conduits, the impact resistance is the same as steel conduits, 1250Nm, and of course all the products in the HFT range are 100% recyclable.

For more information call (02) 9980 7555 or email [info@conduitconnection.com.au](mailto:info@conduitconnection.com.au)

## THE LSFOH SERIES

The LSFOH series is the most recent advancement of Univolt's HFT® range and complies with the following relevant safety aspects, as approved by the relevant standards:

**Low Smoke (LS):** Smoke caused by burning plastics poses a massive threat to human lives. PVC conduits can never comply with low smoke requirements due to material properties. The common test on smoke release follows IEC 61034.

**Flame Retardancy (FR):** To avoid flame propagation in buildings, conduits have to be flame retardant. While halogen free conduits need specific additives, PVC is genuinely flame retardant. The relevant standard test is subject to IEC 61386.

**Zero Halogen (ZH):** During a fire halogens generate toxic smoke. Halogen free installation systems eliminate this hazard. PVC contains the halogen chlorine and is never halogen free. The halogen content of plastics is tested according to IEC 60754.

