HOCHIKI

World Class Leaders in Fire Detection Since 1918

BIM

INTRODUCTIONOVERVIEW

How Hochiki can help you with your BIM project

WHAT IS BIM?

Building Information Modelling (BIM) is a process for managing the information produced during a construction project, in a common format, from the earliest feasibility stage through design, construction, operation and finally demolition, in order to make the best and most efficient use of that information.

The use of BIM can increase efficiency and reduce errors. Virtual designs are built in three dimensions before work proceeds on site; the attributes of all the elements of the building can be found in the model; and spatial 'clashes' can be identified and resolved in the model instead of on site. This overview is aimed at Hochiki customers, system designers, contractors or end users who may not have a detailed understanding of BIM, but wish to gain sufficient understanding of the subject as well as Hochiki's BIM strategy to assess the possible impacts on their design, integration or construction businesses.

THE UK GOVERNMENT'S REQUIREMENTS

The Government Construction Strategy was published by the Cabinet office on 31 May 2011. The report announced the government's intention to require collaborative 3D BIM (with all project and asset information, documentation and data being electronic) on its projects by 2016. Essentially the UK government has embarked with industry on a four year programme for sector modernisation with the key objective of reducing capital cost and the carbon burden from the construction and operation of the built environment by 20%. Central to these ambitions is the adoption of information rich Building Information Modelling (BIM) technologies, process[es] and collaborative behaviours that will unlock new, more efficient ways of working at all stages of the project life cycle.

To enable the BIM to be updated with relevant information manufacturers must present product information in a structured manner. This structured product information may be in a number of formats ranging from standard manufacturer's technical literature through to BIM objects. BIM objects are preferred because they can be used by designers within their own software, such as AutoDesk's Revit. The benefit of manufacturers providing BIM content to designers is that the information contained in the objects will be consistent and accurate.

HOCHIKI & BIM

The reason for publishing this guide now is that the government has set a requirement that all central government building procurement contracts must use BIM from 2016. With this deadline in mind, and the fact that Hochiki is already seeing demand in the industry, we have invested in the creation of a range of BIM content based on a selection of our core products for use by designers, architects and specifiers working within the BIM framework.

COMPANY OVERVIEW

Established in Japan in 1918, Hochiki is an independent, multi-national, publicly listed company with over 1700 employees across the globe. One of the world's leading manufacturers of commercial and industrial fire detection and emergency lighting solutions, Hochiki has acquired global acceptance as the benchmark for high-integrity and long-term reliability.

Hochiki's facilities in Japan, the United States of America and Europe design and manufacture products and provide technical support suited to local standards and customer requirements. Total commitment to meeting the needs of individual national markets has reinforced the company's global reputation, resulting in Hochiki products being installed in many prestigious sites and in over 80 countries worldwide.

STATS TAKEN FROM THE HOCHIKI CUSTOMER SERVICE SURVEY DECEMBER 2016

Respondents rated product quality as either 'very good' or 'excellent'

Customers stated our market reputation is 'very good' or 'excellent'

Customers are most likely to recommend our products

BIM Objects
THREE KEY FUNCTIONS

THE CONSISTENT, CONVENTIONAL LABELLING OR NAMING OF DOCUMENTS AND DATA

This helps in tracking and finding data throughout the life of the asset and ensures all those working on the project follow the same procedures. A suitable process is described in BS 1192, which is already used for numbering drawings on many projects and can form the basis of a system for use with BIM.

A METHOD FOR STORING AND MANIPULATING INFORMATION

On many projects this involves the use of a 3D representation of the buildings in software. A BIM is a shared representation and spatial database that records the location and attributes of every component.

A METHOD FOR EXCHANGING OR ISSUING INFORMATION ABOUT THE BUILDING

This includes its construction, operation, performance and maintenance. Traditionally, this has involved exchanging drawings, schedules and manual, in paper or electronic format and this may continue. The difference is that when BIM is used, the information will be generated from the BIM, rather than by preparing the documents separately.

OUR BIM CONTENT STANDARDS & FORMATS

Our product BIM content has been modelled to AIA Level of Detail 200 and includes detailed specification including the COBie-UK 2012, Uniclass and NBS references requirements called for by the NBS BIM Object Standards. They are supplied in the AutoDesk Revit family file format and the IFC file format (native export).

Our BIM content is available to download free from our web site, visit www.hochikieurope.com/bim for further details.

Alternatively, all of our objects are available to download from the NBS National BIM Library - just search for "hochiki".

EXCELLENCE AS STANDARD

Hochiki offers complete solutions for all fire detection and emergency lighting requirements. The Enhanced Systems Protocol (ESP) is a digital communications solution for intelligent fire detection and fully integrated systems, while the CDX range provides solutions for most conventional fire detection applications.

The company also has a range of solutions suited to more specialised environments. This includes the FIREwave wireless fire detection system for use in locations where minimum disturbance to the fabric of the building is important, the FIRElink aspirating solution and the FIREvac voice evacuation system. These are perfectly complemented by FIREscape, Hochiki's pioneering LED based emergency lighting system.

The company's manufacturing plants are accredited to ISO 9001 and through objectives and targets outlined within its corporate environmental policy and ISO 14001 certification, Hochiki is constantly developing new ways to reduce its environmental impact.

INTELLIGENT

The **ESP** intelligent range incorporates a variety of high performance sensors, modules and ancillary devices to increase the ease of routine maintenance and commissioning. Enhanced System Protocol (**ESP**) applies Hochiki's high integrity communications link to all products in the range.

CONVENTIONAL

Hochiki's **CDX** range covers one of the most extensive product portolios, and provides solutions for most conventional fire detection applications, as well as security systems due to its wide voltage range (9.5~30 V dc).

COMPLETE SYSTEM

Hochiki's **HFP** system offers a complete, flexible fire detection system which can be configured for any environment.

EMERGENCY LIGHTING

FIREscape is a fully intelligent system based on LED technology and promises a flexible system low in voltage, that is simple to install and maintain, and reduces costs of ownership drawamtically.

SPECIALIST

For controlled environments, Hochiki's **FIRElink** range consists of high sensitivity air sampling equipment that identifies the faintest traces of smoke.

HYBRID WIRELESS

Hochiki also caters for heritage sites with the **FIREwave** range which integrates wireless technology into Hochiki's **ESP** hardwired system to provide maximum flexibility and meet specific site requirements.

HOCHIKI - THE LEADER IN INNOVATIVE LIFE SAFETY SOLUTIONS

Hochiki Corporation is a wholly independent, multinational, publicly listed company with over 1,700 employees working across six manufacturing plants, 36 sales offices and 13 subsidiaries. For almost 100 years Hochiki Corporation has led the way in the design and manufacturer of innovative life safety solutions. Its leading edge commercial and industrial fire detection and emergency lighting products have acquired global acceptance as the benchmark for high-integrity and long-term reliability.

Hochiki's European headquarters were established in 1993 in the UK. Operating under Hochiki Europe, the business provides advanced fire detection and emergency lighting systems across the UK, Europe, Middle East, Africa and India. At present, Hochiki Europe builds in excess of 500,000 conventional and intelligent detectors and ancillaries per year at its purpose-built production facility.

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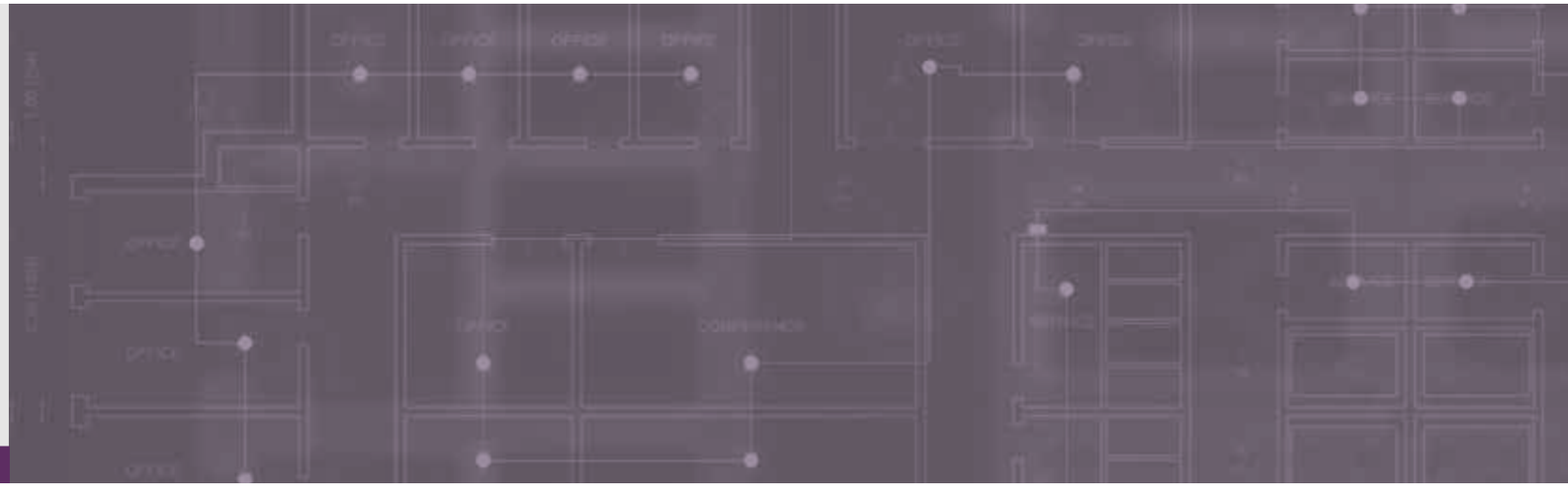

Quality Systems Certificate
No. 164
Assessed to ISO 9001

Environmental Management
Certificate No. EMS 286
Assessed to ISO 14001

Business Member

Affiliate Member

Your Safety, Our Technology