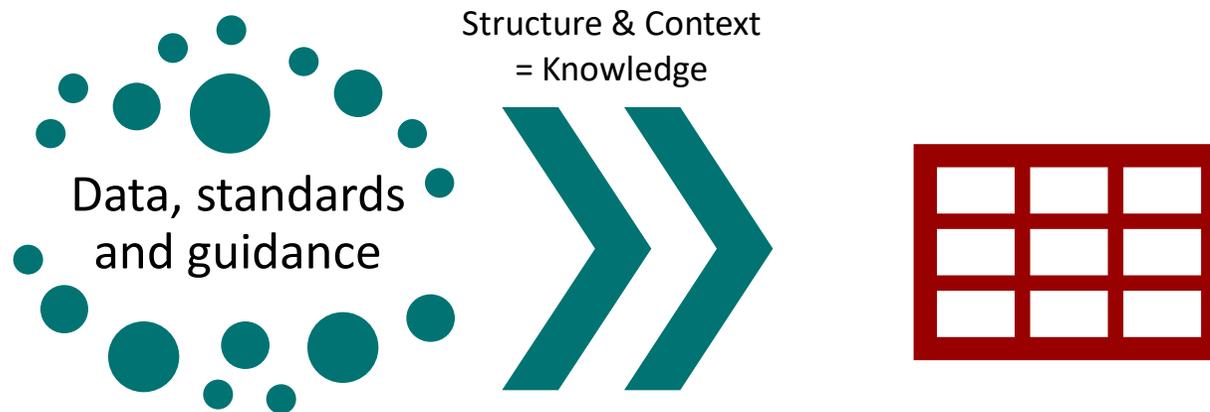


The Challenge

Industry Challenge

Building Regulations = 800 references to Standards!



Unstructured Data

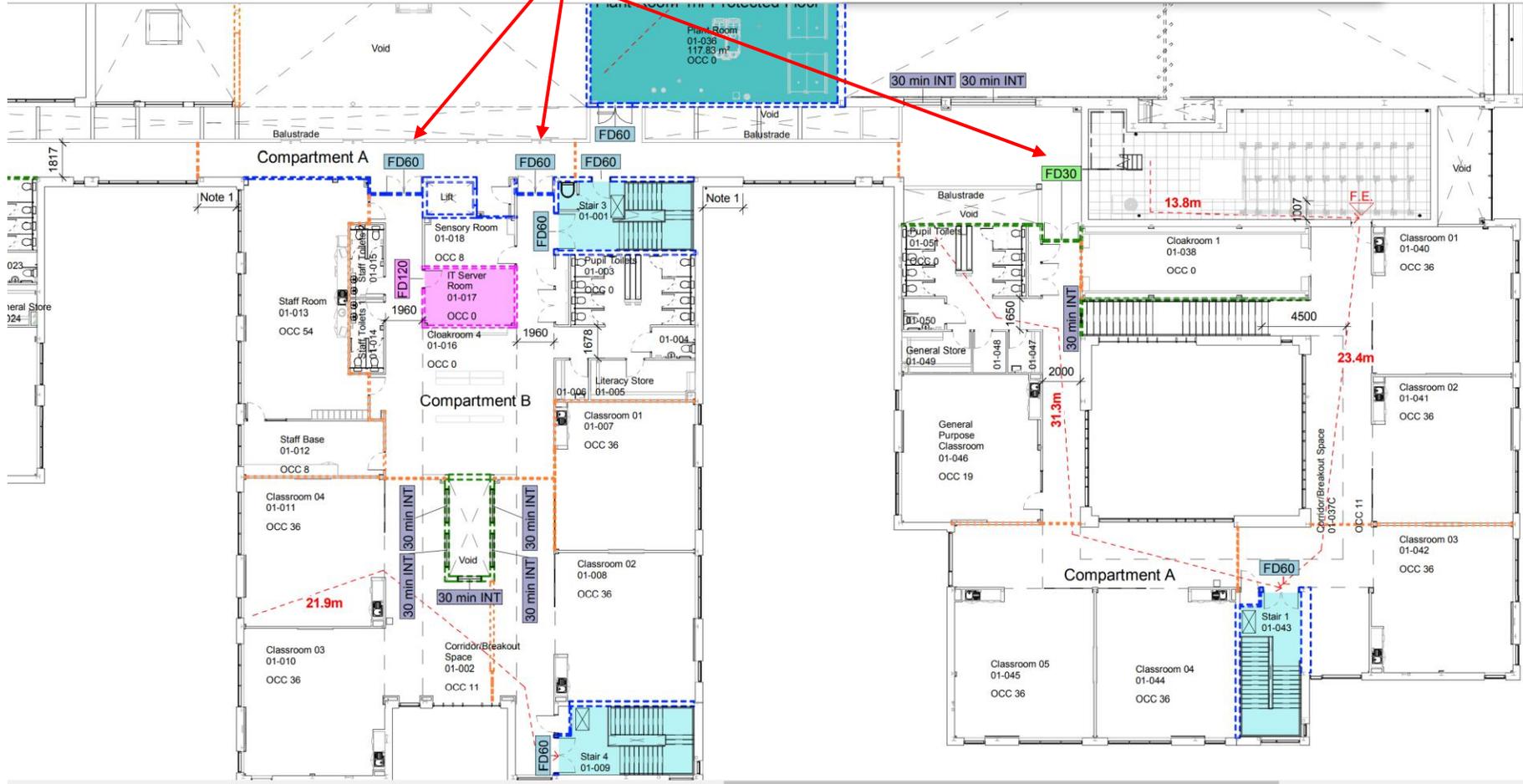
- No common naming
- No common formatting
- No common dictionaries

Machine-readable Information

- Avoiding manual data entry and waste

Replacing a fire door?

search for symbols



Replacing a fire door



Search through the schedules and try and find the door

(32)-Int_Door-ZZ-SC

Door Ref	Room Name	Room Number	Door Type	NBS Ref	Height	Width	Wall Thickness	Fire Strategy	Acoustic Strategy	EHOD	Electronic Lock	Fingerguard	Notes
ID_00_118	Janitors Room	00-116	IDT_01B	L20:410	2110	2110	102		30 Rw (dB)	No	No	No	
ID_00_119	Corridor	00-075	IDT_05D	L20:412	2110	1825	176	FD30	0 Rw (dB)	Yes	No	Yes	
ID_00_120	Library Entrance Lobby	00-005	IDT_02C	L20:410	2110	1110	154		30 Rw (dB)	No	No	Yes	
ID_00_121			IDT_11A	L20:410					35 Rw (dB)				Timber door leaf in aluminium framed glazing system by others
ID_00_122	Multifunction Hall	00-016	IDT_07B	L20:412	2250	1810	140		0 Rw (dB)	No	No	No	
ID_00_123	Access Corridor	00-028	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_00_124	Corridor/Breakout Space	00-044D	IDT_07A	L20:412	2110	1810	102		0 Rw (dB)	No	No	No	
ID_00_125	Corridor/Breakout Space	00-044D	IDT_07A	L20:412	2110	1810	102		0 Rw (dB)	No	No	No	
ID_00_126	Admin Lobby	00-107	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_00_127	Kitchen	00-007	IDT_03C	L20:410	2110	1110	102	FD30	30 Rw (dB)	No	No	No	
ID_00_128	Dry Food Store	00-009	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_00_129	Catering Office	00-008	IDT_02B	L20:411	2110	1010	102		30 Rw (dB)	No	No	No	
ID_00_130	Dry Food Store	00-009	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	2 no. 200x200mm air transfer grilles supplied by others
ID_00_131	Catering Staff Changing Room	00-010	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_00_132	COSHH Store	00-011	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_00_133	Food Store	00-014	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	2 no. 200x200mm air transfer grilles supplied by others
ID_00_134	Medical Room	00-113	IDT_02B	L20:410	2110	1010	102		30 Rw (dB)	No	No	No	
ID_00_135	Classroom 03	00-070	IDT_01B	L20:411	2110	2110	102		35 Rw (dB)	No	No	Yes	
ID_01_001	Walkway Corridor	01-019	IDT_05A	L20:410	2110	1910	102	FD30	30 Rw (dB)	Yes	Yes	Yes	
ID_01_002	Stair 1	01-043	IDT_05A	L20:410	2110	1910	240	FD60	30 Rw (dB)	No	No	Yes	
ID_01_003	Corridor/Breakout Space	01-037	IDT_02B	L20:412	2110	1010	240		0 Rw (dB)	No	No	No	
ID_01_004	General Purpose Classroom	01-046	IDT_01B	L20:411	2110	2110	102		35 Rw (dB)	No	No	Yes	Blackout blind required to door and side screen.
ID_01_005	Cleaners' Store	01-047	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_01_006	IT Hub 3	01-048	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	300x300mm air transfer grille (non vision type) fitted into door. Mechanical pin operated lock.
ID_01_007	General Store	01-049	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_01_008	Corridor/Breakout Space	01-037	IDT_02C	L20:410	2110	1110	102		30 Rw (dB)	No	No	Yes	
ID_01_009	Service Store	01-037B	IDT_07A	L20:412	2110	1810	102		0 Rw (dB)	No	No	No	
ID_01_010	Corridor/Breakout Space	01-037	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_01_011	Stair 3	01-001	IDT_02B	L20:410	2110	1010	240	FD60	30 Rw (dB)	No	No	Yes	
ID_01_012	Walkway Corridor	01-019	IDT_05A	L20:410	2110	1910	102	FD60	30 Rw (dB)	Yes	Yes	Yes	
ID_01_013	Stair 3	01-001	IDT_05A	L20:410	2110	1910	240	FD60	30 Rw (dB)	No	Yes	Yes	
ID_01_014	Sensory Room	01-018	IDT_02B	L20:411	2110	1010	117		35 Rw (dB)	No	No	Yes	
ID_01_015	Corridor/Breakout Space	01-002D	IDT_02B	L20:412	2110	1010	102		0 Rw (dB)	No	No	No	
ID_01_016	Service Store	01-002A	IDT_07A	L20:412	2110	1810	102		0 Rw (dB)	No	No	No	

Why we need machine-readable data



MADE IN BRITAIN

FSC

VIEW THE EDUCATION RANGE GALLERY FOR INSPIRATION

A RANGE OF MADE-TO-ORDER DOORSETS FOR SCHOOLS, COLLEGES, ACADEMIES AND UNIVERSITIES

Our step-by-step guide to specifying doorsets and ironmongery will help guide you through the specification process.

Once you are happy with your selections, please e-mail your requirements to sales@ahmarra.co.uk for a full quotation or contact our experienced sales team on 02392 389 076 who will be able to discuss your project requirements and offer further advice.

Experienced Specification Team
We work closely with architects to help you achieve the correct specification for your school project.

Education Range CPD Training
If you would like to learn more about how to specify Ahmarra Education Range Doorsets, please contact us for more information on our CPD events.

1 : DOOR TYPE

2 : HANDING

3 : DIMENSIONS

4 : FIRE RATING

1 : DOOR TYPE

Select the most appropriate door type for each structural opening. Ahmarra can also accommodate if a custom configuration is necessary.

CIRCULATION & PUBLIC SPACES

<p>TYPE 01 Corridor, stairwell, hall Hold open, free access, single circulation door.</p>	<p>TYPE 02 Corridor, stairwell, hall Hold open, lockable, single circulation door.</p>	<p>TYPE 03 Corridor, stairwell, hall Hold open, free access, double circulation doors.</p>
--	---	---

Type 04DA CORRIDOR, STAIRWELL, HALL

Double

Hold open, lockable, double action circulation doors.

FIRE RATING
NFR FD30 FD60

ACOUSTIC RATING RW(DB)
NR

SPECIFICATION

Configuration	Double
Vision Panel	Standard
Locking	Deadlock
Operation	Push/Pull
Lining	Double Action

TECHNICAL DETAILS

Door Core	Timbercore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1940 mm
Door Height*	2050 mm
Structural Opening Height	2105 mm

IRONMONGERY ITEMS

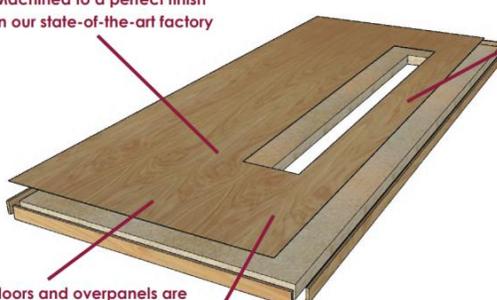
Pack 25 & 25.1

Quantity	Component	Fitted
2	Floor Spring* BTS80-EMB-Electro-magnetic (Pack 24)	Yes
2	Transom Closer RTS80-EMB Electro-magnetic (Pack 24.1)	Yes
1	Deadlock	Yes
1	Cylinder	No
2	Escutcheon	Yes
4	AFDKC Sign (Fr Only)	No
4	Push Plate	No

Why we need machine-readable data



Performance 30



Machined to a perfect finish in our state-of-the-art factory

Wide range of facing options including laminates

High quality particleboard core

Pairs of doors and overpanels are book-matched as standard. See separate datasheet for full details on all veneer options

Freedom to combine different veneers for a bespoke design

Four edges lipped in solid hardwood as standard

Key Features & Benefits:

- Fire-rated 30 minutes
- High quality construction
- FSC certified
- Lipping edge detail can match or contrast the face finish
- Comprehensive choice of finishes
- Tested to severe duty DD171
- Suitable for different applications
- All doors are bespoke and made-to-measure
- Made in our 70,000 ft² factory in the UK
- Can be prepped for a wide range of hardware
- Manufactured to rigorous ISO 9001 and ISO 14001 standards
- Rigorous quality control processes

Certification:

Fire rating – integrity (FD30)	✓
Fire rating – integrity & insulation (FD30/30)	✓
Smoke control (FD30s)	✓
Acoustic rating	
FSC certified	✓
PAS 24 / Secured by Design	
DD171	✓

Finishes:

Hardwood veneers	✓
Lacquered	✓
Laminates	✓
PVC	✓
Fully painted	✓
Primed	✓

Interspec Doorsets

Architectural Ironmongery | Access Control | Door Automation | Doorsets

Technical Specification

Performance Specification Options

Interspec Doorset Performance	Fire	Smoke	Acoustic Level	Surface Performance	Mechanical Strength	Intumescent Seals	Smoke Seals
Timber Doorset-Veneered. NF, FD30 & FD60	Yes	Yes	28dBRw to 43dBRw	Medium Duty	Severe Duty	Yes	Yes
Timber Doorset-Laminate. NF,FD30 & FD60	Yes	Yes	28dBRw to 43dBRw	Heavy Duty	Severe Duty	Yes	Yes
Timber Doorset-Fully Painted. NF,FD30 & FD60	Yes	Yes	28dBRw to 43dBRw	Heavy Duty	Severe Duty	Yes	Yes
Standards	BS476 pt22	BS476 Pt 31.1	BSEN ISO 140-3 BSEN ISO 717/1	BS3962 EN438	BSDD171	BS476 pt22	BS476 Pt 31.1

The general performance tests to be achieved by fire doors are BS 476 part 20 and 22 together with BS476 Part 8. Smoke Control standards are met by BS476 part 31.1. It is likely that the European fire and smoke testing standards BS EN 1634-1 and BS EN – 3 will be accepted within the UK building Regulations.

Fire

FD30, FD60, FD90 and FD120 certified fire doors.

Smoke Control

Fire doors are also certified for smoke control (FD30S, FD60S, FD90S, FD120S).

Why we need machine-readable data



FORZA FIRE CERTIFICATE PLACE IN BUILDING FIRE SAFETY MANUAL KEEP! SIGN! FILE!
(BS9999:2017 - Section9, Annex H)

FIRE RESISTANT TIMBER FD30 FIRE DOORS & FRAMES
TO BS 476: PART 22 : 1987 CERTIFICATE NO. FRTD497

This product certificate certifies that FORZA DOORS LTD Manufacture in the UK the following fire doors and door assemblies: **Forza Flush & Vision Panelled FD30 & FD30s** and have satisfied the requirements of the IFC CERTIFICATION LTD scheme that includes the testing of products to BS476: Part 22, the inspection of Factory Production Control and continuing surveillance audits and testing of samples of products taken from production.

The product specifications are detailed in the FD30 Field of Application report reference PAR/10321/rev L. The report concludes that the door assemblies within the scope of approval may be installed in either orientation and so be exposed to fire conditions from either face.



CONTRACTORS INSTALLATION STATEMENT & CRITICAL CHECKLIST

PROJECT DOOR REF:	ELEVATION TYPE:	This Fire Door has been installed in accordance with the Forza installation guidance and specification by the trained installation team of:
FLOOR:	FLUSH <input type="checkbox"/> OR VISION PANEL <input type="checkbox"/>	
BUILDING:	INTUMESCENT: LEAF <input type="checkbox"/> FRAME <input type="checkbox"/>	
LOCATION:	FRAME MATERIAL: TIMBER <input type="checkbox"/> ALUMINIUM <input type="checkbox"/> STEEL <input type="checkbox"/>	COMPANY:
SUPPORTING CONSTRUCTION:	<input type="checkbox"/> TIMBER STUD PLASTERBOARD PARTITION <input type="checkbox"/> STEEL STUD PLASTERBOARD PARTITION <input type="checkbox"/> FORZA FIRE SCREEN <input type="checkbox"/> MASONRY WALL	
PROJECT SPECIFIC ENGINEERING ASSESSMENT REF:	<input type="checkbox"/> PROPRIETARY DEMOUNTABLE AND RELOCATABLE PARTITION SYSTEM Limitation of allowable elevations/leaf sizes and permitted ironmongery as tested and specified by the proprietary demountable and relocatable partition manufacturer have been adhered to and take total precedence over Forza data.	SIGNED:
CORRECT INSTALLATION - MUST BE OBSERVED		DATE:
<ol style="list-style-type: none"> 1. Frame to wall gaps /packing /gap sealant 2. Hinges/Pivots position & no missing screws 3. Door to Frame & Threshold gaps 4. Fire seals (intumescent) in position 	<ol style="list-style-type: none"> 5. Smoke seals allow door to shut and fill all gaps 6. Lockset engages/releases 7. Closer suitably adjusted to close door 8. "Fire Door Keep Shut" sign visible on door or frame 	TICK HERE ON COMPLETION

FIRE DOOR LABEL AFFIX TO DOOR INTUMESCENT STRIP OR FRAME ON INSTALL
 FOLLOW US ON: @forzadoorsltd forzadoorsltd
 FIND US ON: forzadoorsltd App Stores
 FIRE DOOR LABEL AFFIX TO DOOR INTUMESCENT STRIP OR FRAME ON INSTALL

Further Forza Installation Guidance

For further information and guidance, detailed construction and installation drawings and video guides log-on to our website by scanning the QR code opposite or visit:

www.forza-doors.com

Alternatively call 01403 711126 to speak to one of our technical advisors.

FORZA FD30 - IRONMONGERY SUITABILITY & INSTALLATION GUIDE

1. Single Axis Knuckle Hinges to BS EN 1935.2002

A variety of single axis hinges have been successfully tested with the timber door leaves within timber, aluminium or steel frames. Hinges may be used, subject to compliance with the specifications below.

Hinge type: Fixed pin, washed butt, ball bearing butt, lift-off type or journal supported hinges may be used.

Number of hinges: 2no. (1Pair) per leaf on leaves up to 1981mm high. 3no. (1½ pairs) per leaf on leaves up to 2400mm high. 4no. (2 pairs) per leaf on leaves greater than 2400mm high.

Positions: The top hinge must be positioned 120-180mm down from the head of the leaf to the top of the hinge and the bottom hinge positioned 200-250mm up from the foot of the leaf to the bottom of the hinge. The middle hinge of three must be either equally spaced between the top and bottom hinge (+200mm /-0mm), or 200-250 below the top hinge. The middle hinges of four must be either equally spaced between the top and bottom hinge (+/-150mm) or 2nd hinge 200-250mm below the top hinge and 3rd hinge equally spaced between the second and fourth (bottom) hinge.

Fixings: Steel screws, as recommended by the hinge manufacturers, but in case smaller than 32mm long x 3.8mm diameter (no.8) and having thread for the full length.

Hinge blade sizes: 2.5-3.5mm thick by 89-115mm high by 30-36mm width. (These dimensions refer to the blade size, i.e. the part of the hinges that are recessed into the edge of the leaves/frame.)

Hinge materials: Brass, Phosphor Bronze, Steel or Stainless Steel. No combustible or thermally softening materials to be included.

Additional protection: FD30 Not required (Interruption of the intumescent strip at the hinge allowed, Drawing DRW14). Any recess made for the installation of the hinge shall be tightly cut to the size of the blade. Rising butt, non-cranked butts and spring hinges (single or double action) are not suitable for use on Forza doors approved within FD30 PAR/10321/01. (Such hinges may be suitable on the basis of an individual and project specific fire engineering evaluation. Contact Forza Technical).

2. Concealed or Invisible Hinges (Timber frame only) (Ref. European technical assessment (ETA) EAD 0405:March 2017)

A variety of concealed or invisible hinges have been assessed for inclusion within Forza timber leaves and frames. They are:

- SOSS Invisible Hinge Type 218 (Stainless Steel) (Factory prepared leaf and frame only)
- SOSS Invisible Hinge Type 418 (Stainless Steel) (Factory prepared leaf and frame only)
- Tectus Concealed Hinge Type TE5256 3d (Aluminium & Zinc Alloy)
- Tectus Concealed Hinge Type TE340 3d FR (Aluminium & Zinc Alloy)
- Tectus Concealed Hinge Type TE540 3d (Aluminium & Zinc Alloy)
- Tectus Concealed Hinge Type TE541 3d FVZ 3d (Factory prepared leaf and frame only)
- Tectus Concealed Hinge Type TE640 3d FR (Aluminium & Zinc Alloy)
- Tectus Concealed Hinge Type TE640 3d A8 FR (Aluminium & Zinc Alloy)

These hinges may be included in door assemblies subject to compliance with the specification below:

- Screws supplied by the Hinge manufacturer must be used
- Timber or MDF frame to have minimum 45mm face width
- The correct number of hinges are fitted as recommended by the hinge manufacturer, to ensure that the door leaf is supported for the full fire resistance period.
- The slots for the hinges in the door leaf and frame must be cut tightly, such that there are no gaps around the hinge components / intumescent material when the hinges are installed.
- Hinge positions to be set 120-180mm down from head lead to top of hinge, 200-250mm up from bottom of leaf to bottom of hinge blade three hinge set 200-250mm below top hinge. Additional hinges equi-spaced.
- All hinge positions must be fitted with intumescent gasket kits supplied by the hinge manufacturer (as per test evidence for the hinge type).

Concealed hinges are Not permitted with shadow gaps detailed in DRW5 or DRW6.

3. Mechanically Operated Mortice Locks/Latches to BS EN 12209:2016 (Timber or metal frames)

A variety of mortice locks/latches may be used, subject to compliance with the specifications below:

Latch/lock types: Mortice latches, tubular mortice latches, sashlocks and deadlocks (cylinders to comply to BS EN 1303)

Positioning: Centred at 1000mm (±400mm) above the bottom of the door leaf.

Maximum dimensions: Timber frame

- **Forend plate:** 235mm long x 25mm wide or 203mm long x 28mm wide (see additional protection)
- **Latch body:** 20mm thick x 165mm high x 100mm wide
- **Strikeplate:** 235mm long x 25mm wide or 203mm long x 28mm wide (see additional protection)

Maximum dimensions: Metal frames (See additional protection)

- **Forend plate:** 158mm long x 25mm wide
- **Latch body:** 16mm thick x 108mm high x 74mm wide
- **Strikeplate:** 98mm long x 26mm wide

Materials: Steel based with no essential part of the structure made from polymeric or other low melting point (<800°C) materials, and should not contain any flammable materials.

Additional protection: Timber frame: Any forends/strike plates longer than 130mm, wider than 25mm or where they are fitted at the meeting stiles of double door assemblies shall be bedded on 1mm thick low-pressure forming intumescent material (e.g. Interdens). Metal frames: 1mm interdens on all faces of latch body and under forend. 2mm Therm-A-Flex under strike plate and lining strike box.

Over-morticing is to be avoided: Mortices should be as tight as possible to the latch. If gaps occur around the case (not exceeding 2mm), then these must be made good with intumescent mastic or sheet material. Holes for spindles or cylinders should be kept as small as is compatible with the operation of the hardware.

Glazing apertures: Where glazing apertures are also incorporated and are positioned such that locks/latches are included in the margin between the aperture and door edge the inner back of the mortice must be at least 25mm from the edge of the aperture. If the mortice latch/lock is fitted in line with a 'rail' between two apertures, no part of the lock mortice shall be closer than 50mm to the edge of any aperture.

4. Multi-Point Locking Systems (Timber frame only) (Ref. Pr EN 15685)

A range of Forza factory prepared Multi-Point locking systems are permitted for FD30 single door assemblies in timber frames. Contact tech@forza-doors.com

5. Mechanical Digital Locks to BS8607 :2014/16 (Timber frame only)

Securfast SBL320 Keypad: H158mm x W45mm. The keypad may fitted to the exposed or unexposed face of the leaf.

Securfast SBL330 Keypad: H142mm x W41mm & **SBL365 Keypad:** H178mm x W48mm. The keypad to be fitted to the knox exposed face only.

Protection: latch body /forend /strike box to be wrapped/lined in 1mm thick Interdens.

6. Controlled Door Closing Devices to BS EN 1154:1997

Where required by regulatory guidance or specific fire strategy each hinged door leaf must be fitted with a self-closing device unless it is normally kept locked shut and labelled as such with an appropriate sign which complies with BS5499:10:2014. It is essential that all closers fulfil the requirements of BS EN 1154: 1997 and are of the correct power rating for the width and weight of the door(s) (minimum power size 3).

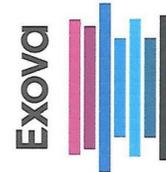
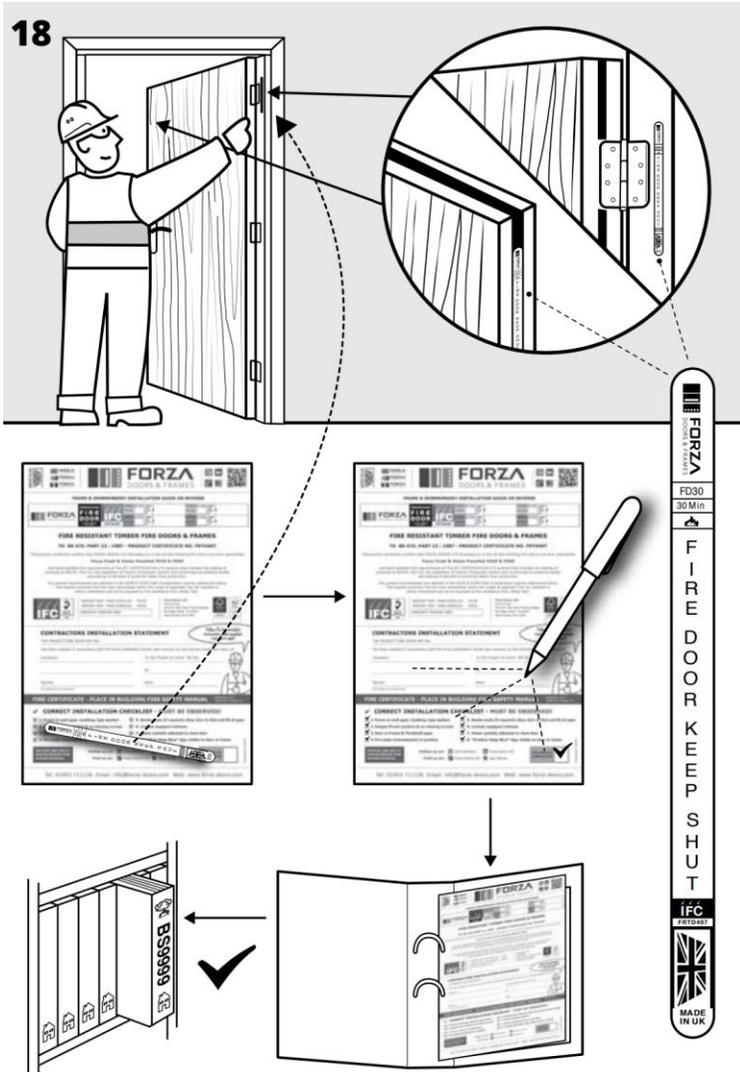
The Closer must be fitted according to the manufacturer's instructions and be adjusted so that it is capable of fully closing the door leaf, against any friction imposed by the latch (and any smoke seals if fitted) from any position of opening.

Face Fixed: (Timber or metal frames) A variety of Surface mounted overhead door closers (and accessories such as soft brackets) that have been tested, assessed or otherwise approved for use on unlatched FD30 timber door leaves in timber/Aluminium/steel frames may be fixed to the exposed or unexposed face of a Forza flush door leaf or vision panelled leaf where the glazed element is 20% or less than the leaf size. Any accessory that is located within the door reveal must have appropriate test or assessment evidence by the closer manufacturer. The following closers may be installed on the exposed or unexposed face of a Forza vision panelled leaf where the glazed element comprises 7mm or 12mm partially insulating glass up to 50% of the leaf size.

- Dorma TS92
- Frisco 73 series
- Hoppe AR500SD or AR9500SD

Concealed overhead: (Timber frame only) Several types of concealed overhead closers are suitable for inclusion in Forza timber door & frame assemblies as listed overhead. These are a 'slide arm' type closers with the closer morticed into the head of the leaf and a single arm and roller acting in a slide channel morticed into the frame head.

Why we need machine-readable data



Results of Test: BMT/MTP/F14152/01/AR1

Forza Doors Ltd
Star Road Trading Estate
24a/24c Star Road
Partridge Green
Horsham
West Sussex
RH13 8RA

This document confirms that performance testing was conducted on 15 May 2014. Testing was conducted to the following standard:
BS EN 1634-3: 2004 Incorporating corrigendum no. 1 Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – Part 3: Smoke control test for door and shutter assemblies

Product tested	44 GDC single leaf doorset (inward opening)		
Summary of testing procedure			
BS EN 1634-3: 2000	Pressure (Pa)	Leakage (m ³ /h)	Result Leakage (m ³ /m/h)
Results under positive chamber (door leaf opening away from chamber)	10	0.11	0.02
	25	0.32	0.06
	50	0.61	0.12
Results under negative chamber (door leaf opening away from chamber)	0	0.34	0.07
	25	0.71	0.14
	50	1.25	0.25

Testing was carried out at ambient temperature only; temperature of the test chamber was measured using a calibrated digital thermometer before and after testing. From approved document B Fire Safety, doors should have a leakage rate not exceeding 3m³/m/hour (head and jamb only) when tested at 25Pa. The perimeter length of gap was 4.97m.

The results relate only to the specimens tested, as detailed in the technical specification

Kyle Morris

Issued by
Kyle Morris
Senior Technical Officer

Lee Grant Riach

Authorised by
Lee Grant Riach
Technical Officer
Issue date: 21 April 2016

Exova (UK) Ltd (trading as Exova)

Chiltern House, Stocking Lane, Hughenden Valley, High Wycombe, HP14 4ND, UK
Tel: 01494 569800 Fax: 01494 564895

Web: www.exova.com Email: europa@bmttrada.com

This document is confidential and remains the property Exova (UK) Ltd



1762

Why we need machine-readable data



Standard door Read in, free egress – complies with EN179

1. EL560 solenoid lock
2. CY326 single cylinder – DIN Europrofile
3. EA280 concealed door loop
4. 60-0319-SSS handle set
5. DC240 door closer (optional)
6. 3-19/042 PZ+BL-SSS alternative

Wood or metal door applications with handle operation, inside handle always operates and the outside handle is controlled and activated on signal from access control system. Key override at all times from outside.

Technical Specification:

Operating voltage: 12V DC to 24V DC stabilised (+15%-10%).

Current draw: 12V DC 350 mA max 24V DC 250 mA max.

Backsets available: Standard 65 mm, 55 mm, 60 mm, 80 mm, 100 mm.

Monitoring: RQE on inside handle, bolt position, door position, cylinder operation.

Standards:

EN179 when used with correct furniture

EN1634-1

EN61000-6-1

EN1303 (cylinder)

EN14846

EN 179



Almost machine-readable data



2	ABLOY			
3				
4				
7	Template Category	Architectural Ironmongery / Locking Devices / Ele		
8	Category Description	Electro-mechanical Locks and Latches falling under the sc		
9	Suitability of use	Electro-mechanical Locks and Latches falling under the scope of BS		
10	Template Custodian	Abloy UK	Product	
11				
12	Information Category	Parameter Name	Value / Answer	Units
13				
14		Manufacturer Data		
15				
16	Manufacturer Data	Manufacturer	Abloy Oy sold by Abloy UK	Text
17	Manufacturer Data	Manufacturer Website	www.abloy.co.uk	URL
18	Manufacturer Data	Product Range	Electric locks	Text
19	Manufacturer Data	Product Model Number	EL560	Text
20	Manufacturer Data	Product Literature	https://shop.assaabloyopeningsolutions.c	URL
21	Manufacturer Data	Features	controlled, solenoid operated, DIN,	Text
22	Manufacturer Data	Other relevant data		Text
23				
24		Construction Data		
25				
26	Construction Data	Shape	DIN standard lockcase	Text
27	Construction Data	Material	Metal	Text
28	Construction Data	Finish/Colour	Stainless Steel	Text
29				
30		Application		
31				
32	Application	Category of Use	Grade 3	Text
33	Application	Door Mass Range	200	Kg
34	Application	Door material	Wood, Composite, Metal	Text
35	Application	Suitability for use on Fire Door	Yes	Y/N
36	Application	Installation applications	Mortice	Text
37	Application	Method of lock operation	Lever , Cylinder and Electronic	Text
38	Application	Field of door application	Hinged	Text
39	Application	Tested to EN 14846	Yes	Text
40	Application	Tested to relevant escape/panic standard	EN179, EN1125	Text
41	Application	Tested to other Relevant Standards, applicable	EN1634-1, EN61000-6-1, EN61000-6-4	Text

	Dimensional Data		
Dimensional Data	Overall Case Depth	88 / 93 / 98 / 113 / 133	mm
Dimensional Data	Overall Case Height	168.5	mm
Dimensional Data	Overall Case Thickness	16.5	mm
Dimensional Data	Forend (complete) Height	235	mm
Dimensional Data	Forend (complete) Width	24	mm
Dimensional Data	Forend (complete) Thickness	3	mm
Dimensional Data	Standard Strike Plate		Text
Dimensional Data	Centre to centre measurement	72	mm
Dimensional Data	Backset	55 / 60 / 65 / 80 / 100	mm
Dimensional Data	Follower size	9	mm
Dimensional Data	Bolt through fixing facility	Yes	Y/N
Dimensional Data	Manufacturer's Recommended Intumescent	2mm for 1Hr wood	Text
Dimensional Data	Supplied Connection cable length	6 metres	mm
Dimensional Data	Gross Weight	1.09	kg
	Performance Data		
Performance Data	CE Marked to EN 14846	Yes	Y/N
Performance Data	Fire test evidence - Timber	30 & 60	Minutes
Performance Data	Fire test evidence - Steel	120	Minutes
Performance Data	Fire test evidence - Composite	30 & 60	Minutes
Performance Data	BS EN 14846 Classification Code	3S8D-L611	Text
Performance Data	Declaration of Performance	https://www.abloy.co.uk/en/abloy/abloy	URL
Performance Data	Durability & Load on Latch bolt	EN14846 Grade 5	N
Performance Data	Security & Drill Resistance	6	Text
Performance Data	Guarantee	24	Months
Performance Data	Corrosion resistance to EN1670		Grade
Performance Data	Corrosion resistance	96	Hours
Performance Data	Additional 3rd Party Accreditation	yes	Y/N
Performance Data	Other relevant data		Text
	Electrical Data		
Electrical Data	Integral or external control box	Intergal	Text
Electrical Data	Battery Type	no battery	Text
Electrical Data	Battery Voltage	n/a	Volts
Electrical Data	Externally Powered	Yes	Y/N
Electrical Data	Operating Voltage Type	DC	Text
Electrical Data	Voltage Range	12 to 24	Volts

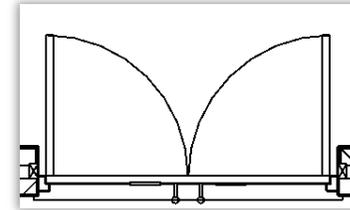
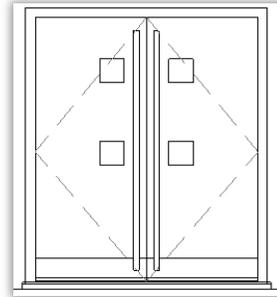
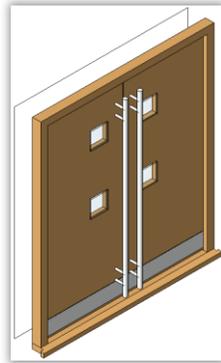
Machine-readable data



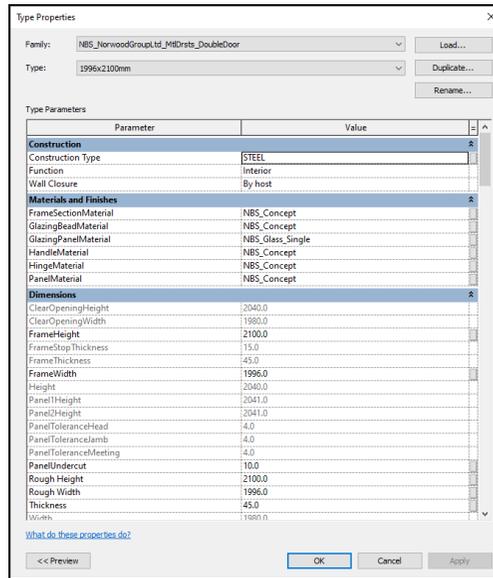
Performance Data				
	CE Marked to EN 14351-1 where required		Y/N	Yes/No
	UKCA Marked to EN 14351-1 where required		Y/N	Yes/No
	UKNI+CE Marked to EN 14351-1 where required		Y/N	Yes/No
	Category of use		Text	Category of duty - BS EN 1192:1999
	Accessible threshold		Text	AD M vol 1 and 2, Accessible thresholds in new housing - guidance for house builders and designers - TSO Ltd ISBN 0 11 7023337 1999
	Resistance to fire		Text	BS EN 16034 clause 4.1
	Reaction to fire		Text	not required in EN 14351-1 but refer to classification in accordance with EN 13501-1 if required by specification
	Reaction to fire of components		Text	BS EN 14351-2 clause 4.5.1
	Reaction to fire of the doorset		Text	BS EN 14351-2 clause 4.5.2
	Smoke control		Text	BS EN 16034 clause 4.2
	Ability to release (to close)		Text	BS EN 14351-1:2006 + A2 2016 clause 4.10
	Durability of the ability to release (to close)		Text	BS EN 14351-1:2006 + A2 2016 clause 4.15.2
	Self-closing		Text	BS EN 16034 2014 clause 4.4
	Durability of self-closing against degradation		Text	BS EN 16034 2014 clause 4.5.2.1
	Durability of self-closing against ageing		Text	BS EN 16034 2014 clause 4.5.2.2
	Ability to release (to open) - doors on escape routes		Text	BS EN 14351-1 2006 + A2 2016 clause 4.10
	Release of dangerous substances - effect on indoor air		Text	BS EN 14351-1 2006 + A2 2016 clause 4.6
	Ventilation		Text	BS EN 14351-1 clause 4.18
	Exposure Category		Text	BS 6375-1 - Determined by classification for air permeability, watertightness and resistance to wind load.
	Air permeability		Text	BS EN14351-1:2006 + A2 2016 clause 4.14
	Watertightness		Text	BS EN14351-1:2006 + A2:2016 clause 4.5
	Resistance to wind load		Text	BS EN14351-1:2006 + A2:2016 clause 4.2
	Durability of watertightness and air permeability		Text	BS EN14351-1:2006 + A2 2016 clause 4.15.2
	Safety in Use		Yes/No	BS 644:2012: It shall not be possible for any opening light or door leaf to become accidentally dislodged from the frame when the window or doorset is being operated.
	Direct airborne sound insulation index (Calculated value or reference method or tabulated value)		Text	BS EN 14351-1 clause 4.11
	Safety requirement specific for hinged doorset #1		Text	These can be more or less than 3 per type, and where the characteristic applies across more than 1 type of doorset, one line should be used with genericised language which demonstrably covers all the relevant types involved in that safety requirement. - perhaps add generic product safety clause.

BIM Objects – Data

Geometry



Meta Data



1	Parameter
2	AccessibilityPerformance
3	Accessories
4	AcousticRating
5	ArchitravesColour
6	ArchitravesFinish
7	ArchitravesMaterial
8	ArchitravesPreservativeTreatment
9	ArchitravesWoodAppearanceClass
10	Assembly Code
11	Assembly Description
12	Assembly Name
13	AssetIdentifier
14	AssetType
15	Author
16	BarCode
17	BIMObjectName
18	Category
19	ClearOpeningHeight
20	ClearOpeningWidth
21	CodePerformance
22	Color
23	Comments
24	ComponentNumber
25	Configuration
26	Constituents
27	Construction Type
28	Cost
29	Count
30	Description

1	Parameter
31	Door Panel Height
32	Door Panel Thickness
33	Door Panel Width
34	DoorLeafBeadingFixing
35	DoorLeafBeadingMaterial
36	DoorLeafBeadingType
37	DoorLeafCore
38	DoorLeafDoorAccessories
39	DoorLeafFinishCoating
40	DoorLeafFinishExternalColour
41	DoorLeafFinishFilmThicknessMinimum
42	DoorLeafFinishInternalColour
43	DoorLeafFinishTexture
44	DoorLeafGlazingManifestation
45	DoorLeafGlazingType
46	DoorLeafLippings
47	DoorLeafMaterial
48	DoorLeafPanelDetails
49	DoorLeafPerimeterSeals
50	DoorLeafThickness
51	DoorNumber
52	DoorsetOptions
53	DoorsetSize
54	DurabilityRating
55	DurationUnit
56	ExpectedLife
57	Family
58	Family and Type
59	Features
60	FillGas

1	Parameter
61	Finish
62	Finish
63	Fire Rating
64	FireExit
65	FireRating
66	Frame Material
67	Frame Thickness
68	Frame Type
69	FrameDepth
70	FrameFinishCoating
71	FrameFinishColour
72	FrameFinishTexture
73	FrameFrameAccessories
74	FrameHeight
75	FrameInstallationFasteners
76	FrameMaterial
77	FramePerimeterSealsOrInserts
78	FrameSectionMaterial
79	FrameThickness
80	FrameThreshold
81	FrameWidth
82	FrameWidth
83	Function
84	GlassColor
85	GlassLayers
86	GlassThickness
87	GlassThickness1
88	GlassThickness2
89	GlassThickness3
90	GlazingAreaFraction

1	Parameter
91	Grade
92	HandicapAccessible
93	Hardware
94	HasDrive
95	Head Height
96	Heat Transfer Coefficient (U)
97	Height
98	HygrothermalRating
99	IfcExportAs
100	IfcExportType
101	IfcGUID
102	Image
103	Infiltration
104	InstallationDate
105	Ironmongery
106	IsCoated
107	IsExternal
108	IsLaminated
109	IsTempered
110	IsWired
111	Keynote
112	Level
113	Manufacturer
114	ManufacturerName
115	ManufacturerURL
116	Mark
117	Material
118	MechanicalLoadRating
119	Model
120	ModelNumber

210 parameters – filled in manually!

Common answers to different questions

Fire performance:

Fire integrity: To BS EN 1634-1, 30 minutes.

Fire insulation: To BS EN 1634-1, 30 minutes.



NBS BIM Toolkit

Fire resistance - Integrity

Fire resistance - Insulation

 NBS National BIM Library

1	Parameter	Value
65	FireRating	Class O Spread of Flame & 60Min Integrity



Fire Rating (minutes) 60, 30, 90

bimobject

Fire resistance:

EI2 60 / E60 tested in accordance with EN 1634-1

bsi. BS 8644-1

ResistanceToFireStructure	60
ResistanceToFireIntegrity	60
ResistanceToFireInsulation	60

60

- Fire Integrity
- Fire Insulation
- Fire Resistance – Integrity
- Fire Resistance – Insulation
- FireRating
- Fire Rating (Minutes)
- Fire resistance
- ResistanceToFireStructure
- ResistanceToFireIntegrity
- ResistanceToFireInsulation



Door



Acquisition Date
Global Trade Item Number
Assessment Date
Assessment Condition
Article Number
Bar Code
Model Reference
Assessment Description
Serial Number
Batch Reference
Model Label
Manufacturer
Production Year
Assembly Place
Width
Height
Perimeter
Area
Reference
Status
Fire Rating
Acoustic Rating
Security Rating
Durability Rating
Hygrothermal Rating
Water Tightness Rating
Mechanical Load Rating
Wind Load Rating
Infiltration
Is External

Thermal Transmittance
Glazing Area Fraction
Handicap Accessible
Fire Exit
Has Drive
Self Closing
Smoke Stop
Glass Layers
Glass Thickness1
Glass Thickness2
Glass Thickness3
Fill Gas
Glass Color, Tempered, Laminated, Coated, Wired
Visible Light Reflectance/ Transmittance
Solar Absorption/Reflectance/Transmittance
Solar Solar Solar Heat Gain Transmittance
Shading Coefficient
Thermal Transmittance Summer
Thermal Transmittance Winter
Service Life Duration
Mean Time Between Failure
Warranty Identifier
Warranty Start Date
Warranty End Date
Is Extended Warranty
Warranty Period
Warranty Content
Point Of Contact
Exclusions

Total Primary Energy Consumption
Water Consumption
Hazardous Waste
Non Hazardous Waste
Climate Change
Atmospheric Acidification
Renewable Energy Consumption
Non Renewable Energy Consumption
Resource Depletion
Inert Waste
Radioactive Waste
Stratospheric Ozone Layer Destruction
Photochemical Ozone Formation
Eutrophication
Lead In Time
Duration
Lead Out Time
Functional Unit Reference
Unit
Life Cycle Phase
Expected Service Life
Total Primary Energy Consumption
Water Consumption Per Unit
Hazardous Waste Per Unit
Non Hazardous Waste Per Unit
Climate Change Per Unit
Atmospheric Acidification Per Unit
Renewable Energy Consumption
Non Renewable Energy Consumption
Resource Depletion Per Unit

Reference
 Description
 Manufacturer
 Third-party certification
 Standard
 Wood in joinery standard
 Configuration
 Doorset size
 Fire resistance - Integrity
 Fire resistance - Insulation
 Fire resistance - Radiation
 Smoke leakage
 Reaction to fire
 Acoustic performance
 Strength and durability
 Thermal
 Intruder resistance - Minimum requirement
 Intruder resistance - Application
 Intruder resistance - Conformity
 Bullet resistance
 Explosion resistance - Blast duration
 Explosion resistance - Pressure mode
 Explosion resistance - Overpressure)
 Explosion resistance - Rebound pressure
 Accessibility
 Frame - Material
 Frame - Species
 Frame - Appearance class
 Frame - Threshold
 Frame - Perimeter seals or inserts
 Frame - Finish
 Frame - Colour
 Frame - External
 Frame - Internal

Frame - Installation fasteners
 Frame - Frame accessories
 Door leaf - Thickness
 Door leaf - Core
 Door leaf - Appearance class
 Door leaf - Panel details
 Door leaf - Facings
 Door leaf - Species
 Door leaf - Cut
 Door leaf - Lippings
 Door leaf - Perimeter seals
 Door leaf - Finish
 Door leaf - Colour - External
 Door leaf - Colour - Internal
 Door leaf - Glazing - Type
 Door leaf - Glazing - Manifestation
 Door leaf - Beading - Type
 Door leaf - Beading - Material
 Door leaf - Beading - Fixing
 Door leaf - Door accessories
 Planted stops - Wood species
 Planted stops - Appearance class
 Planted stops - Finish
 Planted stops - Colour
 Hardware
 Architraves - Material
 Architraves - Wood appearance class
 Architraves - Finish
 Architraves - Colour - External
 Architraves - Colour - Internal
 Preservative treatment
 Accessories
 Accessibility performance

Asset type
 Category
 Code performance
 Colour
 Constituents
 Duration unit
 Expected life
 Features
 Finish
 Grade
 Material
 Model number
 Model reference
 Name
 Nominal height
 Nominal length
 Nominal width
 Replacement cost
 Shape
 Size
 Sustainability performance
 Warranty description
 Warranty duration (labour)
 Warranty duration (parts)
 Warranty duration unit
 Warranty guarantor (labour)
 Warranty guarantor (parts)
 Asset identifier
 Bar code
 Installation date
 Serial number
 Tag number
 Warranty start date

Element 2.8: Internal doors

Sub-element	Component	Unit	Included (aligned to NRM 1 structure)	Maintenance descriptor		Measurement rules applicable for maintenance works
				Renewal (R)	Maintain (M)	
2.8.1	Internal doors Definition: Doors, hatches, shutters and grilles and other openings in internal walls and partitions.	nr	1 Doors, including standard doors, purpose-made doors, full-height doors and fire-resisting doors.	Internal doors – standard or purpose made	Internal doors – standard or purpose made	Specification – To be described for each item 1–10, in order to apply the appropriate reference service life (RSL) and to assign the applicable planned maintenance task schedules to the components included in scope. IDR – To be included as part of internal doors. N/A – Not applicable to renewal and/or maintain work. Renewal Actions Replacement – To include removal of existing, preparation and replacement of internal doors, as appropriate (e.g. doors, frames, linings and stops and replace with new – including redecorating new internal doors and the like). Major repairs – To include preparation, repair make good of internal doors, as appropriate (e.g. re-glazing panels). Refurbish – To include removal of existing, preparation and refurbishing the internal doors, as appropriate. Redecoration – To be described and identified with the renewal work items, as appropriate. Maintain Actions Planned – PPM on applicable motorised doors, hatches, shutters and grilles and the like; including security checks. Proactive – Visual inspections of internal doors and the like, including protective measures (e.g. fix extra security and kick plates). Reactive – Minor repairs to internal doors (e.g. overhaul ironmongery, ease/adjust doors, replacing glazing).
			2 Frames, linings, architraves, stops and the like.	Frames, linings and architraves, stops	IDR	
			5 Glazed vision panels and the like.	Glazed vision panel	IDR	
			6 Sliding and folding doors in fixed partitions.	Sliding/folding doors	Sliding/folding doors	
			7 Hatches, including doors, frames, linings, architraves, stops and the like.	Hatches	Hatches	
		nr (prs)	8 Ironmongery.	Ironmongery	Ironmongery	
nr	10 Painting and decorations.	Internal decoration	N/A			
	2 Fire-resisting doors: details, including type, number of door leaves (nr), fire rating (hours), size of each door leaf (mm), and overall size of opening (mm), to be stated.	nr	1A – Fire resisting doors (See door description included in item 1 above).	Doors – fire resisting	Doors – fire resisting	
	3 Door sets: details, including type, number of door leaves (nr), size of each door leaf (mm), and overall size of opening (mm), to be stated.		3 Door sets.	Door sets	(IDR)	

 Interior door (wood)
EC003080 / 3

[Details](#) [Features](#) [Linked classes](#) [Reference databases](#) [BSDD](#) [eCl@ss](#)

Interior door (wood) , Inside door , internal door , Wooden inner door

 SUBJECT: 1XcacszAX6xAtHPNgXP\$B

Top layer material

 PROPERTY: 3iY7P0cb1C_e7uZYZHfYHT

direction of rotation

 PROPERTY: 1c_zKni7D0AQ7uytFyOXw6

surface protection

 PROPERTY: 3QRx_fk2nD3fttPA5B3TI

type of door

 PROPERTY: 2UKNpEiGjDAX_tcTQEbvH0

Glazing bead

 PROPERTY: 0xBPvBgtTELF5DRAERG00H

panel type

 PROPERTY: 2REj8p0cf9GR0Ji9HGYS_8

KOMO certified

 PROPERTY: 30Wz7hnnrE6h2LXDNGmpXY

Profiling

 PROPERTY: 3Qp2iHSU19uP8A6L2H9dqY

Edge shape

 PROPERTY: 06bDHTHqfFMPFI9aelKFlh

width , width

 PROPERTY: 2MTMbRUQb0TBRG3B90jo6f

Stability class to EN 12219

 PROPERTY: 3RIO2sEPv9WOoUmcwZmkGX

With glass opening

 PROPERTY: 1HTaQGbnv9Thaz\$K0gUJDZ

Thermal insulation (R)

 PROPERTY: 1qSB0AFELerxIVhiXG\$eSe

Fire resistance according to EN 1634-1:2005

 PROPERTY: 3LexY1YZLAYukFTJZh1wys

Not applicable

 VALUE: 3MhDfLtlz2fu2BEirchgTR

30 min.

 VALUE: 0u5UoNIWX8Y9X_6ZiyOmhD

60 min.

 VALUE: 06SfCoN2X7NxD0ECfdail_

other , OTHER

 VALUE: 0\$W580qW4Hu000025QrE\$V

Suitable for transparent treatment

 PROPERTY: 1v7tdFabXCNQneo\$KVKdCX

weight , weight

 PROPERTY: 36XIMAWJWHu000025QrE\$V

Noise attenuation

 PROPERTY: 2lBoM55d9CL8HyvfhH1jRD

thickness , thickness

 PROPERTY: 3vHk8uoT0Hsm00051Mm008

Height

 PROPERTY: 1ebHwUtAXE9vzXl4gID9TU

Environmental certification

 PROPERTY: 1uKh5KBZTEG9Bdx0BUIRj4

Name	Doors_ExtSgl
CreatedBy	name@email.com
CreatedOn	2020-11-09T14:39:27
Category	Pr_30_59_24: Doorsets
Description	External Door
AssetType	Fixed
Manufacturer	company@email.com
ModelNumber	588
WarrantyGuarantorParts	company@email.com
WarrantyDurationParts	10
WarrantyGuarantorLabor	company@email.com
WarrantyDurationLabor	10
WarrantyDurationUnit	Years
ExtSystem	Authoring Application
ExtObject	IfcDoorType
ExtIdentifier	922a3aa9-8d3f-4c5c-a62a-d42f5ab886e0-0004ef01
ReplacementCost	980
ExpectedLife	25
DurationUnit	Years
WarrantyDescription	Onsite warranty and advanced replacement warranty
NominalLength	75
NominalWidth	1010
NominalHeight	2110
ModelReference	588
Shape	Rectangular
Size	n/a
Color	RAL 9010
Finish	Gloss Paint
Grade	n/a
Material	Plastic
Constituents	Frame,Leaf,Ironmongery
Features	Vision Panel
AccessibilityPerformance	n/a
CodePerformance	n/a
SustainabilityPerformance	n/a
ResistanceToFireStructure	60
ResistanceToFireIntegrity	60
ResistanceToFireInsulation	60
ReactionToFire	A2-s1,d0

Resistance to Fire Structure
 Resistance to Fire Integrity
 Resistance to Fire Insulation
 Resistance to Fire
 Reaction to Fire

Angle to Datum
 Back up Power Type
 Minimum Operation Period
 Operation Pressure Minimum
 Operating Temperature Minimum
 Fire Exit Type
 Fire Exposure Direction
 Life Safety Element
 Property Projection Element
 Fire Protection Method

Element

Name	Quality Of Components	
Description	Design Level	Reclaimed content at Installation
Scope of Work Status	Work Execution Level	Percentage Waste at Installation
Spaces	Maintenance Level	Recycled content at Installation
External Entity Name	In Use Conditions	Category of maintenance
IFC Predefined Type	Outdoor Environment	Cleaning method
Weight	Indoor Environment	Percentage damaged per year
Total gross volume of the element or element part	Is For Thermal Control	Percentage Restored at Very Frequent Occurrences.
Mass Density	Is For Visual Permeability or Privacy	Percentage Restored at Maintenance Occurrences.
Material Adjustment	Is For Air Supply	Percentage Restored at Repair Occurrences.
Cross Section Area	Is For Electrical Supply	Reclaimed Content at Repair
Surface Area (Single Sided)	Is For Sanitary	Recycled Content at Repair
Projected to Plan Footprint Area	Is For Sound Reverb Control	Percentage Of Materials Removed at Repair
Length	Is For Weather Tightness	Recycled content at Replacement
Width	Has Permanency Requirements	Percentage Of Materials Removed at Replacement
Height	Is Loadbearing Horizontal Restraint	Reclaimed content at Replacement
Estimated Service Life	Is For Sound Permeability Control	Percentage Waste at Replacement
Maintenance Frequency	Is For Security	Percentage Damaged at Replacement
Repair Frequency	Is For Occupancy	Percentage Restored at Refurbishment Occurrences.
Replacement Frequency	Is For Daylight	Reclaimed content at Refurbishment
Refurbishment Frequency	Is For Fire Containment	Percentage Damaged at Refurbishment
Is Reusable	Is Loadbearing	Percentage Restored at Replacement Occurrences that are Reused
Is disassemblably possible?	Is Multifunctional	Capital Currency Unit
Are tools available for disassembly?	Is functions affected after removal	Total Element Cost
Are timescales possible for disassembly?	Transport to site local	Unit Cost of Manufacturing
Are skills available for disassembly?	Transport from site	Unit Cost of Installation
	Transport to site	Unit Cost of Transport
	Transport vehicle	

Standard BIM data (Ifc) for a door + EPDs



Basic COBie

Designers

Operations

Compliance

Environmental

Procurement

Acquisition Date	Has Drive	Hazardous Waste
Global Trade Item Number	Self Closing	Non Hazardous Waste
Assessment Date	Smoke Stop	Climate Change
Assessment Condition	Glass Layers	Atmospheric Acidification
Article Number	Glass Thickness1	Renewable Energy Consumption
Bar Code	Glass Thickness2	Non Renewable Energy Consumption
Model Reference	Glass Thickness3	Resource Depletion
Assessment Description	Fill Gas	Inert Waste
Serial Number	Glass Color	Radioactive Waste
Batch Reference	Is Tempered	Stratospheric Ozone Layer Destruction
Model Label	Is Laminated	Photochemical Ozone Formation
Manufacturer	Is Coated	Eutrophication
Production Year	Is Wired	Lead In Time
Assembly Place	Visible Light Reflectance	Duration
Width	Visible Light Transmittance	Lead Out Time
Height	Solar Absorption	Functional Unit Reference
Perimeter	Solar Reflectance	Unit
Area	Solar Transmittance	Life Cycle Phase
Reference	Solar Heat Gain Transmittance	Expected Service Life
Status	Shading Coefficient	Total Primary Energy Consumption Per Unit
Fire Rating	Thermal Transmittance	Water Consumption Per Unit
Acoustic Rating	Summer	Hazardous Waste Per Unit
Security Rating	Thermal Transmittance Winter	Non Hazardous Waste Per Unit
Durability Rating	Service Life Duration	Climate Change Per Unit
Hygrothermal Rating	Mean Time Between Failure	Atmospheric Acidification Per Unit
Water Tightness Rating	Warranty Identifier	Renewable Energy Consumption Per Unit
Mechanical Load Rating	Warranty Start Date	Non Renewable Energy Consumption Per Unit
Wind Load Rating	Warranty End Date	Resource Depletion Per Unit
Infiltration	Is Extended Warranty	Inert Waste Per Unit
Is External	Warranty Period	Radioactive Waste Per Unit
Thermal Transmittance	Warranty Content	Stratospheric Ozone Layer Destruction Per Unit
Glazing Area Fraction	Point Of Contact	Photochemical Ozone Formation Per Unit
Handicap Accessible	Exclusions	Eutrophication Per Unit
Fire Exit	Total Primary Energy Consumption	
	Water Consumption	

If you ask for 'standard' COBie – what do you get?



COBie Type

Name	HADG-Pr-DoorSet-GB
CreatedBy	BIM@BRE.co.uk
CreatedOn	
Category	Pr_30_59_24
Description	HADG: door frame , door leaf or leaves, complete essential hardware including hinges, handles etc. to the outside of a building PRIMARY PURPOSE: To access a space from another space, To provide security, To provide fire protection, To provide weather tightness IFC: the door is a building element that is predominately used to provide controlled access for people and goods
AssetType	
Manufacturer	
ModelNumber	
WarrantyGuarantorParts	
WarrantyDurationParts	
WarrantyGuarantorLabor	
WarrantyDurationLabor	
WarrantyDurationUnit	
ExtSystem	
ExtObject	
ExtIdentifier	
ReplacementCost	
ExpectedLife	
DurationUnit	
WarrantyDescription	
NominalLength	
NominalWidth	
NominalHeight	
ModelReference	
Shape	
Size	
Color	
Finish	
Grade	
Material	
Constituents	
Features	
AccessibilityPerformance	
CodePerformance	
SustainabilityPerformance	
Length	
Area	

COBie Component

Name	
CreatedBy	
CreatedOn	
TypeName	
Space	
Description	
ExtSystem	
ExtObject	
ExtIdentifier	
SerialNumber	
InstallationDate	
WarrantyStartDate	
TagNumber	
BarCode	
AssetIdentifier	
Length	
Area	
Asset Document Types	
Asset Photograph	
Asset Test Certificate	
DOP declaration of performance	
Manufacturer's Instructions	
Operation and Maintenance	
Warranty Certificate	

.....and what will be missing?

COBie Attributes (BIM4H)

- HygrothermalRating
- HasDrive
- Status
- IsExternal
- FireRating
- SelfClosing
- ThermalTransmittance
- SecurityRating
- Infiltration
- Area
- Perimeter
- WaterTightnessRating
- AcousticRating
- Reference
- ThermalTransmittanceSummer
- SmokeStop
- MechanicalLoadRating
- DurabilityRating
- Height
- FireExit
- WindLoadRating
- ThermalTransmittanceWinter
- Width
- GlazingAreaFraction
- HandicapAccessible

Common Properties (ifc & EPD)

ModelReference
 Manufacturer
 Width
 Height
 FireRating
 AcousticRating
 SecurityRating
 DurabilityRating
 WaterTightnessRating
 MechanicalLoadRating
 WindLoadRating
 ThermalTransmittance
 GlazingAreaFraction
 HandicapAccessible
 SelfClosing
 GlassThickness1
 SmokeStop
 TotalPrimaryEnergyConsumption
 HazardousWaste
 RenewableEnergyConsumption
 StratosphericOzoneLayerDestruction
 PhotochemicalOzoneFormation
 ExpectedServiceLife
 TotalPrimaryEnergyConsumptionPerUnit
 ClimateChangePerUnit
 AtmosphericAcidificationPerUnit
 RenewableEnergyConsumptionPerUnit

Groups of properties

Compartmentation

Smoke Control
 Fire suppression
 Detection
 Evacuation
 Security
 Damp control
 Infection Control

Asset Data Templates

Architrave
 Cavity Barrier
 Fire Door
 Door Closer
 Fire and Smoke
 Dampers
 Fire Collar
 Fire Curtain
 Fire Stopping
 Fire Wall

Classification

Uniclass 2015	Pr_30_59_24
Uniclass 2015	Ss_25_30_20_25
IFC	IFC4X1
NRM	2.8
Revit	Revit_Architecture_Doors
Omniclass	21-03 10 30
CiSfB	325
CAWS	L2

Ambiguity : Specification

45-25-28/348 Wood doorsets type A

- **Manufacturer:** Jeld Wen (or equal)
- **Third party accreditation:** Manufacturer's standard.
- **Standard:** Internal fire rated doorset to BS 8214 and third party accredited.
- **Wood in joinery standard:** To BS EN 942.
- **Configuration:** Single leaf, single action. Refer to DMA drawings and schedule
- **Doorset size:** Refer to DMA schedules and drawings. Structural opening 1010 x 2110
- **Format:** Double leaf, single action.
- **Performance:**
 - **Fire performance:**
 - Fire integrity:** To BS EN 1634-1, 30 minutes.
 - Fire insulation:** To BS EN 1634-1, 30 minutes.
 - Radiation:** TBC by fire consultant
 - Smoke control:** To BS EN 13501-2, class Sa.
 - Reaction to fire:** To BS EN 13501-1, class B-s3, d2 or better and Class 0 as defined in England and Wales Building Regulations Approved Documents B1 and B2.
 - **Acoustic performance:** To BS EN ISO 10140-2, sound reduction index Rw 35 dB minimum.
 - **Strength and durability:** To BS EN 1192, Class 2.
 - **Accessibility:** In accordance with BS 8300 and Building Regulations M(1) part 2 and 3
- **Frame:**
 - **Material:** Manufacturer's standard.
 - **Species:** Manufacturer's standard.
 - **Appearance class:** J20.
 - **Threshold:** Refer to DMA drawings and details for detailed threshold design.

Why we need machine-readable data **BIM** HOUSING

ahmarra DOOR SOLUTIONS



A RANGE OF MADE-TO-ORDER DOORSETS FOR SCHOOLS, COLLEGES, ACADEMIES AND UNIVERSITIES

Our step-by-step guide to specifying doorsets and ironmongery will help guide you through the specification process.

Once you are happy with your selections, please e-mail your requirements to sales@ahmarra.co.uk for a full quotation or contact our experienced sales team on 02392 389 076 who will be able to discuss your project requirements and offer further advice.

VIEW THE EDUCATION RANGE GALLERY FOR INSPIRATION

Experienced Specification Team

We work closely with architects to help you achieve the correct specification for your school project.

Education Range CPD Training

If you would like to learn more about how to specify Ahmarra Education Range Doorsets, please contact us for more information on our CPD events.

1: DOOR TYPE

2: HANDING

3: DIMENSIONS

4: FIRE RATING

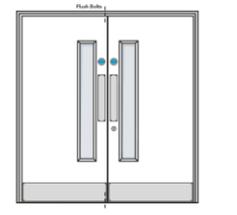
1 : DOOR TYPE

Select the most appropriate door type for each structural opening. Ahmarra can also accommodate if a custom configuration is necessary.

CIRCULATION & PUBLIC SPACES

<p>TYPE 01 Corridor, stairwell, hall Hold open, free access, single circulation door.</p>	<p>TYPE 02 Corridor, stairwell, hall Hold open, lockable, single circulation door.</p>	<p>TYPE 03 Corridor, stairwell, hall Hold open, free access, double circulation doors.</p>
--	---	---

Type 04DA CORRIDOR, STAIRWELL, HALL



SPECIFICATION

Configuration	Double
Vision Panel	Standard
Locking	Deadlock
Operation	Push/Pull
Lining	Double Action

TECHNICAL DETAILS

Double

Hold open, lockable, double action circulation doors.

FIRE RATING

NFR FD30 FD60

ACOUSTIC RATING RW(DB)

NR

IRONMONGERY ITEMS

Pack 25 & 25.1

Quantity	Component	Fitted
2	Floor Spring* BTS80-EMB-Electro-magnetic (Pack 24)	Yes
2	Transom Closer RTS80-EMB Electro-magnetic (Pack 24.1)	Yes
1	Deadlock	Yes
1	Cylinder	No
2	Escutcheon	Yes
4	AFDKC Sign (Fr Only)	No
4	Push Plate	No

Why we need machine-readable data

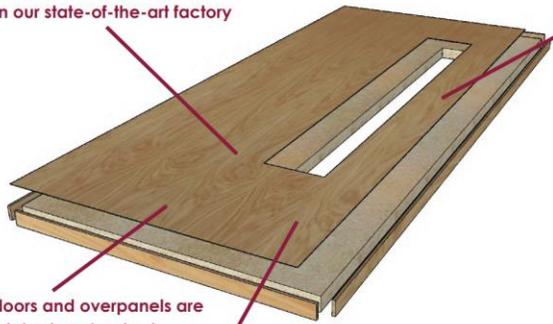


Performance 30

Machined to a perfect finish in our state-of-the-art factory

Wide range of facing options including laminates

High quality particleboard core



Pairs of doors and overpanels are book-matched as standard. See separate datasheet for full details on all veneer options

Freedom to combine different veneers for a bespoke design

Four edges lipped in solid hardwood as standard

Key Features & Benefits:

- Fire-rated 30 minutes
- High quality construction
- FSC certified
- Lipping edge detail can match or contrast the face finish
- Comprehensive choice of finishes
- Tested to severe duty DD171
- Suitable for different applications
- All doors are bespoke and made-to-measure
- Made in our 70,000 ft² factory in the UK
- Can be prepped for a wide range of hardware
- Manufactured to rigorous ISO 9001 and ISO 14001 standards
- Rigorous quality control processes

Certification:

Fire rating – integrity (FD30)	✓
Fire rating – integrity & insulation (FD30/30)	✓
Smoke control (FD30s)	✓
Acoustic rating	
FSC certified	✓
PAS 24 / Secured by Design	
DD171	✓

Finishes:

Hardwood veneers	✓
Lacquered	✓
Laminates	✓
PVC	✓
Fully painted	✓
Primed	✓

Interspec Doorsets

Architectural Ironmongery | Access Control | Door Automation | Doorsets

Technical Specification

Performance Specification Options

Interspec Doorset Performance	Fire	Smoke	Acoustic Level	Surface Performance	Mechanical Strength	Intumescent Seals	Smoke Seals
Timber Doorset-Veneered. NF, FD30 & FD60	Yes	Yes	28dBRw to 43dBRw	Medium Duty	Severe Duty	Yes	Yes
Timber Doorset-Laminate. NF,FD30 & FD60	Yes	Yes	28dBRw to 43dBRw	Heavy Duty	Severe Duty	Yes	Yes
Timber Doorset-Fully Painted. NF,FD30 & FD60	Yes	Yes	28dBRw to 43dBRw	Heavy Duty	Severe Duty	Yes	Yes
Standards	BS476 pt22	BS476 Pt 31.1	BSEN ISO 140-3 BSEN ISO 717/1	BS3962 EN438	BSDD171	BS476 pt22	BS476 Pt 31.1

The general performance tests to be achieved by fire doors are BS 476 part 20 and 22 together with BS476 Part 8. Smoke Control standards are met by BS476 part 31.1. It is likely that the European fire and smoke testing standards BS EN 1634-1 and BS EN – 3 will be accepted within the UK building Regulations.

Fire

FD30, FD60, FD90 and FD120 certified fire doors.

Smoke Control

Fire doors are also certified for smoke control (FD30S, FD60S, FD90S, FD120S).

Different Property Name and Values

BIM Library Objects:



FireDoor_D-1

No	Door Type	FireRating
1	FireDoor_D-1	FD-30-S
2	FireDoor_D-1	FD-30-S
3	FireDoor_D-1	FD-30-S
4	FireDoor_D-1	FD-30-S

Different Property Name and Values

BIM Library Objects:



FireDoor_D-1



S-1_Door

No	Door Type	FireRating	FireResistance
1	FireDoor_D-1	FD-30-S	-
2	S-1_Door	-	EI30
3	FireDoor_D-1	FD-30-S	-
4	FireDoor_D-1	FD-30-S	-

Different Property Name and Values

BIM Library Objects:



FireDoor_D-1



S-1_Door



Door_Fire

No	Door Type	FireRating	FireResistance	FireRating_Door
1	FireDoor_D-1	FD-30-S	-	-
2	S-1_Door	-	EI30	-
3	Door_Fire	-	-	0.5 hours
4	FireDoor_D-1	-	-	-

Different Property Name and Values

BIM Library Objects:



FireDoor_D-1



S-1_Door



Door_Fire



Fire-Door_01

No	Door Type	FireRating	FireResistance	FireRating_Door	FireResistance_Door
1	FireDoor_D-1	FD-30-S	-	-	-
2	S-1_Door	-	EI30	-	-
3	Door_Fire	-	-	0.5 hours	-
4	Fire-Door_01	-	-	-	Half Hours

Data Standardisation Workstream



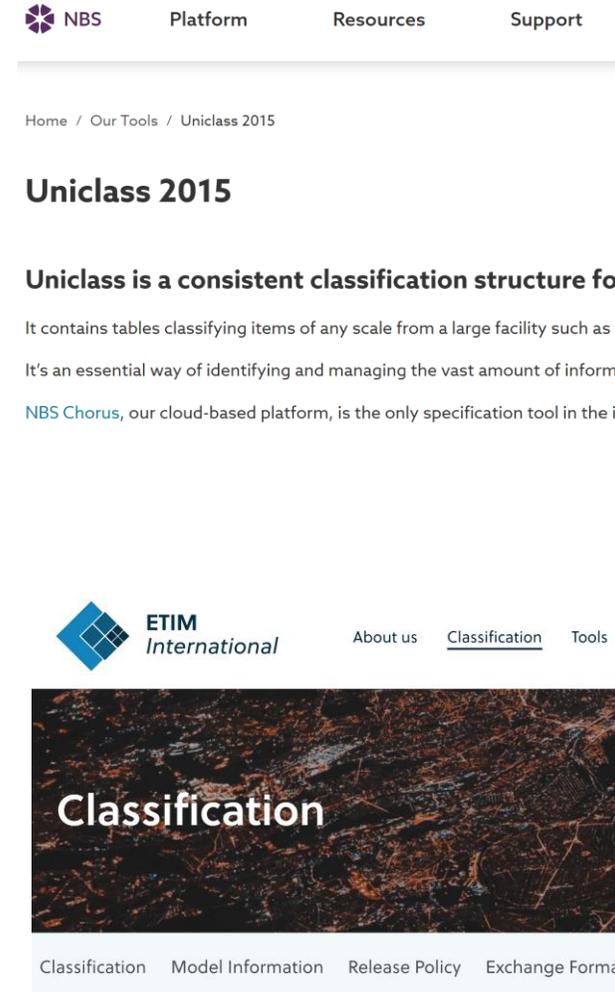
Industry Foundation Classes (IFC)

[Home](#) » [Standards](#) » [bSI Standards](#) » [Industry Foundation Classes \(IFC\)](#)



What is bSDD?

The buildingSMART Data Dictionary (bSDD) is an online service that hosts classifications and their properties, allowed values, units and translations. The bSDD allows linking between all the content inside the database. It provides a standardized workflow to guarantee data quality and information consistency.

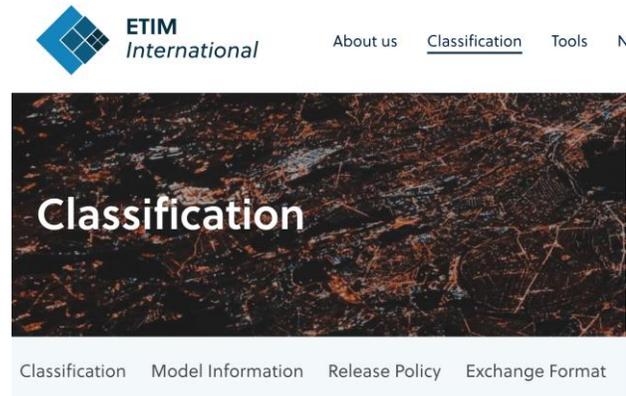


Uniclass 2015

Uniclass is a consistent classification structure for

It contains tables classifying items of any scale from a large facility such as . It's an essential way of identifying and managing the vast amount of inform

[NBS Chorus](#), our cloud-based platform, is the only specification tool in the i



[Classification](#) [Model Information](#) [Release Policy](#) [Exchange Format](#)

Standardising data requirements – *machine-readable*



OP AIR Housing_Master_List George Stevenson

Home Clients Housing_Master_List **Summary** Facility Contacts Floors Spaces Asset Types Systems Zones Publishing Exports Import Custom Settings

ADMINISTRATION Users

Summary

Summary Progress

Published % 86.5

Client Details

Name: Housing_Master_List
Library:
Contact Name:
Company: Master AIR Lists
Organisation Code:
Category: Co_45:Residential complexes

Draft % 0

Draft % 100

Draft % 75

Published% 90.3

Draft % 100

Draft % 100

0 Contacts

2 Floors

4 Spaces

247 Asset Types

5 Systems

1 Zones

Last Access

search in result...

Name	Company	Last Access	Area
George Stevenson	activePLAN	13/02/2022 11:48:18	Systems
Andrew Handley	activePLAN	04/02/2022 10:14:41	Floors

Master Asset Type library



Name	Synonyms (Comma delimited)	Category (Uniclass 2015)	Ifc Type (IFC 4)	Description of Asset type
ADSL Line	Broadband, Cable, Fibre	Pr_65_70_15:Communications cables and accessories	IfcCableCarrierSegmentType	HADG: Asymmetric digital subscriber line (ADSL) is a type of digital subscriber li
Air Conditioning Unit	AC, Air-con Unit	Pr_70_65_03:Air conditioning units	IfcUnitaryEquipmentType	Equipment for controlling the humidity, ventilation, and temperature in a space
Air Handling Units	AHU	Pr_60_65_03:Air handling units	IfcUnitaryEquipmentType	An air handler, or air handling unit (often abbreviated to AHU), is a device used
Air Source Heat Pump	Heat Pump Air Source	Pr_70_60_37_02:Air-to-air heat pumps	IfcPumpType	HADG: air source heat pump absorbs heat at one place and release it at another
Alarm Panel		Pr_75:Services and process control products	IfcAlarmType	An alarm control panel is the central hub of a security set up. All of a user's secu
Anchorage Points Safety		Pr_40_70_75_29:Fall arrester devices	IfcDiscreteAccessoryType	An anchor point, or anchorage, is one component of a personal fall arrest system
Antenna		Pr_60_75_01:Antennas and satellite dishes	IfcOutletType	HADG: a rod or wire for radiating or receiving radio or television waves PRIMAR
Architrave		Pr_35_90_43:Interior wall and ceiling trims	IfcCoveringType	HADG: moulding to conceal the joint between a wall and either the framing sur
Automatic Door	Door Automatic	Pr_75_30_23_09 : Automatic swing-door operators	IfcDoor	HADG: door that opens automatically, usually on sensing the approach of a pers
Automatic Opening Vent	AOV, Opening Vent Automatic	Pr_65_54_93_05:Automatic air vents	IfcOpeningElement.OPENING	HADG: a hatch, window or set of louvres that are part of a smoke control system
Automatic transfer switching equipment (TSE)		Pr_60_70_48_05 : Automatic transfer switching equipment (TSE)	IfcSwitchingDeviceType	An automatic transfer switch (ATS) is a device that automatically transfers a pow
Balcony		Pr_20_65_50_65:Prefabricated balconies	IfcSlabType	HADG: a platform enclosed by a wall or balustrade on the outside of a building, v
Balcony Cladding		Pr_25_71_14:Cladding and lining panels	IfcCoveringType	The external cladding to a balcony
Balcony Door		Pr_30_59_24:Doorsets	IfcDoor	A balcony door will have catch, handle and key lock.
Bathroom pods		Pr_20_65_50_10 : Bathroom pods	IfcBuildingElementProxyType	Bathroom pods are an offsite fabricated bathroom unit, which is fully fitted and
Bathtub	Bath, Bath tub	Pr_40_20_06_08 : Baths	IfcSanitaryTerminalType	HADG: bathroom fixture, a basin with drain under a water supply for bathing pe
Bicycle Rack		Pr_20_65_78_77 : Semi-closed shelters	IfcBuildingElementProxyType	HADG: outdoor furniture for securing bicycles when they are not in use PRIMAR
Boiler		Pr_60_60_08:Boilers	IfcBoilerType	Boilers provide energy for space heating systems and or heating potable water.
Boiler Communal		Pr_60_60_08:Boilers	IfcBoilerType	HADG: Communal boilers provide energy to multiple dwellings and or commerc
Boiler Domestic		Pr_60_60_08:Boilers	IFC-Pr-Boiler-GB-Base	HADG: Domestic boilers heat water to supply a single dwellings heating system,
Boiler Flue		Pr_70_65_30_51 : Metal flues and chimneys	IfcDuctSegmentType	HADG: exhaust duct for discharging products of combustion from a boiler to the
Buggy Shelter		Pr_20_65_78:Shelter structures	IfcFurniture	HADG: stand alone or built in storage facility for prams and buggies PRIMARY PL
Building Maintenance Unit		Pr_40_70_75:Safety equipment	IfcBuildingElementProxyType	HADG: suspended access system, providing full lateral, horizontal and vertical m
Building Structure - Substructure		EF_20_05:Substructure	IfcBuildingElementProxyType	HADG: structural frame of a building with fixed location entirely above its found
Building Structure - Superstructure		EF_20_10:Superstructure	IfcBuildingElementProxy	HADG: structural frame of a building with fixed location entirely above its found
Busbar	Bus bar, Busbar, Flat rail	Pr_60_70_48 - Low-voltage switchgear		
Call Point		Pr_75_80_30_50:Manual call points	IfcSensorType	A manual call point is a device which enables personnel to raise an alarm in the
Carbon Monoxide Detectors		Pr_75_50_76_12 : Carbon monoxide detectors	IfcSensorType	A carbon monoxide detector or CO detector is a device that detects the presenc

Master Asset Type library – *machine-readable*



ap AIR ☰ Housing_Master_List

- 🏠 Home
- 👤 Clients
- 📄 Housing_Master_List
- 📊 Summary
- 🏢 Facility
- 👥 Contacts
- ☰ Floors
- 🏠 Spaces
- 📦 Asset Types
- 🔧 Systems
- 🗺️ Zones
- 📄 Publishing
- 📄 Exports
- 📄 Import
- ⚙️ Custom Settings >
- ADMINISTRATION**
- 👤 Users

Housing_Master_List: Asset Types

Asset Types
Community Library

add New AssetType or select from the private or community library tabs.

<input type="checkbox"/>	Name	Category	IfcType	Nomenclature	Tag Number	Required Fields	Attributes
<input type="checkbox"/>	Default Asset Type	-	-	-	-	27/48	0
<input type="checkbox"/>	Access Hatch	Pr_30_59_36:Hatches and access panels	IfcDoor	Source_HATCHACCESS_SubType/Product	Building_Location_ACH_ID	27/48	23
<input type="checkbox"/>	Access Panel	Pr_30_59_36_01:Access panels	IfcDoor	Source_ACCESSPANEL_SubType/Product	Building_Location_DRAP_ID	27/48	23
<input type="checkbox"/>	Architrave	Pr_35_90_43:Interior wall and ceiling trims	IfcCoveringType	Source_ARCHITRAVE_SubType/Product	Building_Location_ARC_ID	27/48	13
<input type="checkbox"/>	Automatic Door	Pr_75_30_23_09 : Automatic swing-door operators	IfcDoor	Source_DOORAUTOMATIC_SubType/Product	Building_Location_DRA_ID	27/48	19
<input type="checkbox"/>	Balcony	Pr_20_65_50_65:Prefabricated balconies	IfcSlabType	Source_BALCONY_SubType/Product	Building_Location_BALC_ID	27/48	21
<input type="checkbox"/>	Balcony Door	Pr_30_59_24:Doorsets	IfcDoor	Source_DOORBALCONY_SubType/Product	Building_Location_DRB_ID	27/48	23
<input type="checkbox"/>	Bicycle Rack	Pr_20_65_78_77 : Semi-closed shelters	IfcBuildingElementProxyType	Source_BICYCLERACK_SubType/Product	Building_Location_BKRK_ID	27/48	6
<input type="checkbox"/>	Door Access Panel	Pr_30_59_36_01 : Access panels	IfcControllerType	Source_DOORACCESSPANEL_SubType/Product	Building_Location_DRAP_ID	27/48	12
<input type="checkbox"/>	Door Closer	Pr_30_36_59:Opening hardware	IfcControllerType	Source_DOORCLOSER_SubType/Product	Building_Location_DRIC_ID	27/48	12
<input type="checkbox"/>	Door Entry	Pr_75_51_17_66:Push-button	IfcSwitchingDeviceType	Source_DOORENTRYOVERRIDEBUTTON_SubType/Product	Building_Location_DFOV_ID	27/48	19

Select which attributes needed for each asset type

Housing_Master_List: Fire Door

Copy Edit

Details Attributes Custom Attributes Project Attributes Template Attributes

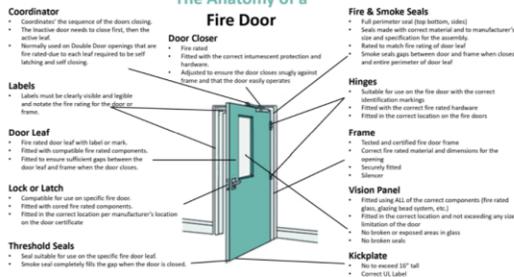
Mandatory Fields

Required 27 of 48

Asset Type Details

Word PDF XLS Form XLS

The Anatomy of a Fire Door



Asset Type Name

Fire Door

Template

IFC-Pr-Door-GB-Base

Current State

Reviewed

Details

✓ Cobie.Type.ExpectedLife, Cobie.Type.UnitDuration

The expected life of the product as implemented in the project expressed in 2 cobie fields

✗ Cobie.Type.Shape

An adjective or short description of the product shape.

✗ Cobie.Type.Size

A descriptive size provided by the manufacturer

✗ Cobie.Type.NominalLength, NominalWidth and NominalHeight

3 Nominal size values that defined the extents of the product

✗ Cobie.Type.Color

The primary colour or colours of the product

✗ Cobie.Type.Finish

The primary finish or finishes of the product

✗ Cobie.Type.Grade

The Grade quality of the product

✗ Cobie.Type.Constituents

If the product is in more than one part then the parts should be lists. eg: a split Air

Maintenance & Warranty

✗ Cobie.Type.ReplacementCost

Replacement Cost of item.

✗ Cobie.Job

Any maintenance required by the manufacturer to ensure product reliability and performance to be detailed in the Cobie.Job with task, frequency, resources and anticipated time for the task.

✗ Cobie.Spare

If the product has consumables then the spares will be listed. The spares should be recorded as Cobie.Type records and the Cobie.Type.Name listed here.

✓ Cobie.Type.Warranty[]

- WarrantyDescription
- WarrantyGuarantorParts
- WarrantyGuarantorLabor
- WarrantyDurationParts
- WarrantyDurationLabor
- WarrantyDurationUnit

A description and period of duration for both the parts and labor must be completed in the fields. It is recommended that the Asset Instance Cobie.Component.WarrantyStartDate by required to ensure costs for maintenance draw on inwarranty items. WarrantyGuarantor's are provided as emails which must existing in Cobie.Contact

“Standard” COBie attributes (*generic to any asset type*)



Asset Type Description

A fire door is a door with a fire-resistance rating (sometimes referred to as a fire protection rating for closures) used as part of a passive fire protection system to reduce the spread of fire and smoke between separate compartments of a structure and to enable safe egress from a building or structure or ship

Asset Type Nomenclature (format) Cobie.Type.Name

Source_DOORFIRERATED_SubType

Systems included in

✓ Cobie.Type.Category

The product will be assigned this classification category from Uniclass 2015

Classification Category

Pr_30_59_24_28 : Fire doorsets

✓ Cobie.Type.ModelNumber

The manufacturers unique reference that is used for ordering the product.

✗ Cobie.Type.ModelReference

The manufacturers grouping or range name for the product.

✓ Cobie.Type.Manufacturer

The manufacturer of the product and provided as the Cobie.Contact.Email of the manufacturer record.

✓ Cobie.Type.AssetType

Is the product fixed or movable?

The main materials the product is constructed from.

✗ Cobie.Type.Features

Any features of the product that are not already included in the product description.

✗ Cobie.Type.AccessibilityPerformance

Any certification or creditation that product has in relation to accessibility.

✗ Cobie.Type.CodePerformance

Any certification or creditation that product has in relation to quality codes.

✗ Cobie.Type.SustainabilityPerformance

Any certification or creditation that product has in relation to sustainability.

✗ Cobie.Type.Length

The length of the product in the units defined in Cobie.Facility.LinearUnits

✗ Cobie.Type.Area

The area of the product in the units defined in Cobie.Facility.AreaUnits

Asset Nomenclature (format) Cobie.Component.Name

Fire_doorsets-[AA]-[nn]-[AA]-[nn]

✓ Cobie.Component.Name

Compulsory key field identifier of Component is unique

✓ Cobie.Component.CreatedBy

Compulsory linking field of email of the contact that created or last edited the record

✓ Cobie.Component.CreatedOn

Compulsory date field of the record created or last edited in UTC format YYYY-MM-DD

✓ Cobie.Component.TypeName

Compulsory key field identifier Cobie.Type.Name and must exist.

✓ Cobie.Component.Space

A list of Cobie.Space.Name, comma delimited and must exist (if no space name then the component cannot be located in the building)

Asset TagNumber Format

Building_Location_DRF_ID

✓ Cobie.Component.TagNumber

The TagNumber for the instance of the asset must be unique and should be the same as that detailed in drawings and schedules

Document Types required

✓ Cobie.Component.SerialNumber

If the product is designed and supplied for the project with unique serial numbers to identify it to the manufacturer.

Asset type specific attributes – *machine-readable*



<input type="checkbox"/>	Property Set	Attribute	Group	Unit	Stage	Description
<input type="checkbox"/>	Pset_DoorCommon	HygrothermalRating	Type	Enter Label	-	Resistance against hygrothermal impact from different temperatures and humidities inside and outside. It is given according to the national code or regulation.
<input type="checkbox"/>	Pset_DoorCommon	SmokeStop	Type	Yes,No	-	Indication whether the object is designed to provide a smoke stop (TRUE) or not (FALSE).
<input type="checkbox"/>	Pset_DoorCommon	Reference	Type	Id	-	Reference ID for this specified type in this project (e.g. type 'A-1'), Also referred to as "construction type". It should be provided as an alternative to the name of the "object type", if the software does not support object types.
<input type="checkbox"/>	Pset_DoorCommon	Infiltration	Type	m ³ / s	-	Infiltration flowrate of outside air for the filler object based on the area of the filler object at a pressure level of 50 Pascals. It shall be used, if the length of all joints is unknown.
<input type="checkbox"/>	Pset_DoorCommon	HandicapAccessible	Type	Yes,No	-	Indication that this object is designed to be accessible by the handicapped. It is giving according to the requirements of the national building code.
<input type="checkbox"/>	Qto_DoorBaseQuantities	Area	Type	m ²	-	Total area of the outer lining of the door.
<input type="checkbox"/>	Pset_DoorCommon	SecurityRating	Type	Enter Label	-	Index based rating system indicating security level. It is giving according to the national building code.
<input type="checkbox"/>	Pset_DoorCommon	MechanicalLoadRating	Type	Enter Label	-	Mechanical load rating for this object. It is provided according to the national building code.
<input type="checkbox"/>	Pset_DoorCommon	WindLoadRating	Type	Enter Label	-	Wind load resistance rating for this object. It is provided according to the national building code.
<input type="checkbox"/>	Pset_DoorCommon	HasDrive	Type	Yes,No	-	Indication whether this object has an automatic drive to operate it (TRUE) or no drive (FALSE)
<input type="checkbox"/>	Pset_DoorCommon	GlazingAreaFraction	Type	number	-	Fraction of the glazing area relative to the total area of the filling element. It shall be used, if the glazing area is not given separately for all panels within the filling element.
<input type="checkbox"/>	Pset_DoorWindowGlazingType	ThermalTransmittanceSummer	Type	W / m ² · K	-	Thermal transmittance coefficient (U-Value) of a material. Summer thermal transmittance coefficient of the glazing only, often referred to as (U-value).
<input type="checkbox"/>	Qto_DoorBaseQuantities	Height	Type	m	-	Total outer height of the door lining. It should only be provided, if it is a rectangular door.
<input type="checkbox"/>	Pset_DoorCommon	FireRating	Type	Enter Label	-	Fire rating for this object. It is given according to the national fire safety code or regulation.

Comparing attributes across types – *machine-readable* BIM HOUSING



Comparison Summary

Fields Attributes

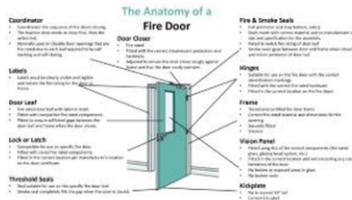
	Acoustic Rating	Area	Conductor Function	Durability Rating	Fire Exit	Fire Rating	Glazing Area Fraction	Gross Weight	Handicap Accessible	Has Drive	Has Lock	Has Protective Earth	Height	Hygrothermal Rating	Infiltration	Insulation Standard Class	IP_Code	Is External	Is Illuminated	Legend	Mechanical Load Rating	Nominal Frequency Range	Number Of Gangs
Doorset External	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Door Access Panel	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✓	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗
Door Entry Override Button	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✓	✓	✗	✗	✗	✓	✓	✗	✓	✓	✗	✓	✓
Fire Door	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Doorset Entrance Internal	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Automatic Door	✓	✗	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Balcony Door	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Doors	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Garage Door	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Doorset Entrance External	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗
Doorsets	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✓	✗	✗	✓	✗	✗

Simple way of viewing complex data – *and seeing exceptions*

Requirements issued to supply chain – “standard” COBie



Fire Door



Asset Type Description:
A fire door is a door with a fire-resistance rating (sometimes referred to as a fire protection rating for closures) used as part of a passive fire protection system to reduce the spread of fire and smoke between separate compartments of a structure and to enable safe egress from a building or structure or ship

The following data marked YES is required for each Asset Type/Asset as defined.

Type	Description	Required	Stage
Name	Nomenclature (format) Source_DOORFIRERATED_SubType	YES	1
CreatedBy	Cobie.Contact.Email of the author of the record	YES	1
CreatedOn	UTC Date Time format when the record was created or changed [YYYY-MM-DDThh:mm:ss]	YES	1
Category	Pr_30_59_24_28 : Fire doorsets The product will be assigned with this classification category.	YES	3
Description	A description of the product (Manufacturers summary of the product)	YES	4
AssetType	Is the product fixed or movable?	YES	3
Manufacturer	The manufacturer of the product and provided as the Cobie.Contact.Email of the manufacturer record.	YES	4
ModelNumber	The manufacturers grouping or range name for the product.	YES	6
WarrantyGuarantorParts	The Cobie.Contact.Email of the organisation responsible for supplying any parts under the warranty	YES	6
WarrantyDurationParts	The unit of time expressed as a number for which the parts are under warranty	YES	6
WarrantyGuarantorLabor	The Cobie.Contact of the organisation responsible for replacing or fixing the parts under the warranty	YES	6
WarrantyDurationLabor	The unit of time expressed as a number for which the labor will be supplied under the warranty.	YES	6
WarrantyDurationUnit	The unit type the warranty duration of parts and labor are expressed.	YES	6
ExtSystem	The External System for the Asset Type from which the data came.	YES	3
ExtObject	The External Object of the System for the Asset Type from which the data came.	YES	3
ExtIdentifier	The External Identifier of the System for the Asset Type from	YES	3

ReplacementCost	Replacement Cost of item	NO	6
ExpectedLife	The expected life of the product as implemented in the project expressed as a number of the type duration unit	YES	6
DurationUnit	The expected life duration unit type expressed as a unit of time or operating cycle	YES	6
WarrantyDescription	A Description of the warranty terms for the product	YES	6
NominalLength	Nominal Length size value that defined the extents of the product	NO	6
NominalWidth	Nominal Width size value that defined the extents of the product	NO	6
NominalHeight	Nominal Height size value that defined the extents of the product	NO	6
ModelReference	The manufacturers grouping or range name for the product.	NO	6
Shape	An adjective or short description of the product shape.	NO	6
Size	A descriptive size provided by the manufacturer	NO	6
Color	The primary colour or colours of the product	NO	6
Finish	The primary finish or finishes of the product	NO	6
Grade	The Grade quality of the product	NO	6
Material	The main materials the product is constructed from.	NO	6
Constituents	If the product is in more than one part then the parts should be lists. e.g.: a split Air conditioner will be indoor unit (evaporator), outdoor unit(Condenser) and remote control.	NO	6
Features	Any features of the product that are not already included in the product description.	NO	6
AccessibilityPerformance	Any certification or accreditation that product has in relation to accessibility.	NO	6
CodePerformance	Any certification or accreditation that product has in relation to accessibility.	NO	6
SustainabilityPerformance	Any certification or accreditation that product has in relation to quality codes.	NO	6
Length	The length of the product from the manufacturer in the units defined in Cobie.Facility.LinearUnits	NO	6
Area	The area of the product from the manufacturer in the units defined in Cobie.Facility.AreaUnits	NO	6

Document Types

Asset Instance

AIR Asset Nomenclature (format) Cobie.Component.Name: Fire_doorsets-[AA]-[nn]-[AA]-[nn]

Component	Description	Required	Stage
Name	Nomenclature (format) Fire_doorsets-[AA]-[nn]-[AA]-[nn]	YES	1
CreatedBy	Cobie.Contact.Email of the author of the record	YES	1
CreatedOn	UTC Date Time format when the record was created or changed [YYYY-MM-DDThh:mm:ss]	YES	1
TypeName	Nomenclature (format) Source_DOORFIRERATED_SubType	YES	1
Space	The name of the Space the instance of the product occupied which must exist in Cobie.Space.Name. Where the product occupied multiple spaces these are to be listed with the “,”	YES	1

Requirements issued to supply chain – special attributes

Property Set	Attribute	Description	Unit	Stage
Pset_DoorCommon	HygrothermalRating	Resistance against hygrothermal impact from different temperatures and humidities inside and outside. It is given according to the national code or regulation.	Enter Label	
Pset_DoorCommon	SmokeStop	Indication whether the object is designed to provide a smoke stop (TRUE) or not (FALSE).	Yes, No	
Pset_DoorCommon	Reference	Reference ID for this specified type in this project (e.g. type 'A-1'), Also referred to as "construction type". It should be provided as an alternative to the name of the "object type", if the software does not support object types.	Id	
Pset_DoorCommon	Infiltration	Infiltration flowrate of outside air for the filler object based on the area of the filler object at a pressure level of 50 Pascals. It shall be used, if the length of all joints is unknown.	m ³ / s	
Pset_DoorCommon	HandicapAccessible	Indication that this object is designed to be accessible by the handicapped. It is giving according to the requirements of the national building code.	Yes, No	
Pset_DoorCommon	SecurityRating	Index based rating system indicating security level. It is giving according to the national building code.	Enter Label	
Pset_DoorCommon	MechanicalLoadRating	Mechanical load rating for this object. It is provided according to the national building code.	Enter Label	
Pset_DoorCommon	WindLoadRating	Wind load resistance rating for this object. It is provided according to the national building code.	Enter Label	
Pset_DoorCommon	HasDrive	Indication whether this object has an automatic drive to operate it (TRUE) or no drive (FALSE)	Yes, No	
Pset_DoorCommon	GlazingAreaFraction	Fraction of the glazing area relative to the total area of the filling element. It shall be used, if the glazing area is not given separately for all panels within the filling element.	number	
Pset_DoorCommon	FireRating	Fire rating for this object. It is given according to the national fire safety code or regulation.	Enter Label	
Pset_DoorCommon	Status	Status of the element, predominately used in renovation or retrofitting projects. The status can be assigned to as "New" - element designed as new	choose from drop-	

Templates for supply chain to capture asset data



AIR Application <input type="text" value="https://air.activeplan.com"/>		Client Name <input type="text" value="Housing_Master_List"/>	
Requirement Name <input type="text" value="Fire Door"/>		Project Name <input type="text" value="Housing_Master_List"/>	
Requirement Description <input type="text" value="A fire door is a door with a fire-resistance rating (sometimes referred to as a"/>		Form Version <input type="text" value="1"/>	
Classification Code <input type="text" value="Pr 30_59_24_28 : Fire doorsets"/>			

Street <input type="text"/>	Description <input type="text"/>
Town <input type="text"/>	Nominal Length not required mm
State Region <input type="text"/>	Nominal Width not required mm
Postal Code <input type="text"/>	Nominal Height not required mm
Country <input type="text"/>	Warranty Details Required
	Warranty Description <input type="text"/>
	Parts Warranty Email <input type="text"/>
	Parts Warranty Term <input type="text"/>
	Labor Warranty Email <input type="text"/>
	Labor Warranty Term <input type="text"/>
	Warranty Term Unit <input type="text"/>

Additional Standard Attributes		Client Attributes	
ExtSystem <input type="text"/> text		HygrothermalRating <input type="text"/> Enter Label	
Asset Type ExtObject <input type="text"/> text		SmokeStop <input type="text"/> Yes,No	
Asset Type ExtIdentifier <input type="text"/> text		Reference <input type="text"/> Id	
Asset Type Expected Life <input type="text"/> number		Infiltration <input type="text"/> m³ / s	
Unit Duration <input type="text"/> text		HandicapAccessible <input type="text"/> Yes,No	
		Area <input type="text"/> m²	
		SecurityRating <input type="text"/> Enter Label	
		MechanicalLoadRating <input type="text"/> Enter Label	

Data validation



	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	
1	Type	% full score complete	Classification	Description	Asset Type	Replacement Cost	Model Number	Expected Life	Duration Unit	Warranty Description	Warranty Duration Unit	Warranty Guarantor Labor	Warranty Duration Labor	Warranty Guarantor Parts	Warranty Duration Parts	Nominal Height	Nominal Width	Nominal Length	Model Reference	Manufacturer	Shape	Descriptive Size	Colour	Finish	Grado	Material	Constituents	Features	Accessibility Performance	Code Performance	ustainability Performance	Ext System	Ext Object	Ext Identifier	Attribute: SDX_AssetCode	Attribute: SFG20	Attribute: Reference
2	Specialty Equipment_THP_SpecialtyEquipment_Cables_SVE-SAC-046	55	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	X	Y	NR	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y			
3	Specialty Equipment_THP_SpecialtyEquipment_Accessoires_SVE-PL-083	52	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	X	Y	NR	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y			
4	Furniture_THP_Furniture_WhiteCyclorama_SVE-FF&E-006	46	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	X	Y	X	X	X	X	NR	NR	NR	NR	X	NR	Y	Y	Y				
5	DGR_Data Devices_Dataoutlet_001_WIFI	51	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	Y	Y	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y	Y				
6	DGR_Fire Alarm Devices_SMOKE DETECTOR1_001_HS_HEAT DETECTOR FIXED TEMPERATURE	72	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	Y	Y	NR	X	NR	NR	X	NR	NR	NR	X	NR	Y	Y	Y				
7	Specialty Equipment_THP_SpecialtyEquipment_MonitorLCD_SVE-PL-081	43	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	X	X	X	X	NR	NR	NR	NR	X	X	Y	Y	Y				
8	DGR_Ligthing Devices_ROOM SWITCH ACTUATOR BOX RFA_001_200x300x50	47	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	Y	Y	NR	X	NR	NR	X	NR	NR	NR	X	NR	Y	Y	Y				
9	DGR_Electrical Fixtures_HANGMAN UNIT_001_DOUBLE	45	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	Y	Y	X	X	X	X	NR	NR	NR	X	NR	Y	NR	Y	Y				
10	DGR_Lighting Fixture_Zenith Z4G_001_CTL2*9/LED/NM3	33	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	NR	X	NR	NR	NR	NR	NR	X	X	X	X	Y	Y	Y			
11	Specialty Equipment_THP_SpecialtyEquipment_PibFp_SVE-SAC-006	38	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y				
12	DGR_Ligthing Fixtures_LINEAR SURFACE OFFICE L9_001_150x1500 LED UGR19 (L9)	78	Y	Y	Y	NR	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	Y	Y	NR	NR	NR	NR	NR	NR	NR	NR	Y	NR	Y	Y	Y				
13	Specialty Equipment_THP_SpecialtyEquipment_Microphones_SVE-SAC-062	48	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y				
14	Specialty Equipment_THP_SpecialtyEquipment_Cables_SVE-SAC-042	55	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y				
15	Generic Models_THP_GenericModels_OnAirSignal_SVE-SAC-026	52	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	NR	NR	NR	NR	X	NR	NR	X	NR	Y	Y	Y					
16	Specialty Equipment_THP_SpecialtyEquipment_Microphones_SVE-SAC-073	48	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y				
17	DGR_Electrical Equipment_Distribution Board TP&N_001_500x950x275 13	50	Y	Y	Y	NR	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	Y	X	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y				
18	Specialty Equipment_THP_SpecialtyEquipment_Internally_wired_bar_001_SVE-PL-023	52	Y	Y	Y	NR	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	Y	Y	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y				
19	DGR_Electrical Equipment_Distribution Board TP&N_001_500x950x275 17	50	Y	Y	Y	NR	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	Y	X	NR	NR	NR	NR	NR	NR	NR	NR	X	NR	Y	Y	Y				