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Purpose

The purpose of this document is to provide general guidelines for departments (Estimating Dept. and Contracts Dept) that deal with strictly technical aspects of a contract once it has been secured by Sales Dept.

Note: An electronic copy of this Work Instruction can be found on the Technical Datasheet by clicking through; Documents & Web Links/Internal Documents & Technical Calculators/General Technical Guidelines For Contracts & Estimating

Scope

This document consists of the following major sections:


- A. CHECK LIST – a scope of technical information to be provided to customer (quotation, schedule, etc.)
- B. TECHNICAL NOTES – specifics of numerous items and features (i.e. push pads, rebated frames, hooded door stops, sliding doors, side-lights, etc.) and their recommended or legally required usage in various applications

Content

A. CHECK LIST

All technical information is to be listed on the quotation/schedule and approved by the customer before the order is processed or schedule issued. This includes:


1. Confirmation of the laminate reference and structure.
2. Handings for each doorset to DP10203rev5 - use floor plan as a source of information and if not provided by customer then a schedule. In absence of any of these, seek customer's advice. Never use elevation plan to determine handing of doorsets.
3. Threshold gap for each doorset
4. Frame width and extension size. Extension size calculated as follows:
Overall wall width required - Main Frame width +10mm = Extension size
for example:
 - Overall wall width required is 300mm
 - Main Frame width is 100mm
 - Extension size = 300 – 100 +10 = 210mm
 - Written as 32x100mm with 210mm MDF extension including 20mm tongue.
5. Architrave Profile and DP number. If architrave to only one side, specify side.
6. Door and ironmongery specifications on larger projects (>40 doorsets where requested) to be confirmed via a sample board.
7. Key Suiting; note that most Q2Q quotes have the cylinders as master keyed – please check that master keying is required and state which range

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(Contract Range = Tigris Standard and Architectural = Tigris Premier TBC by Contracts)

8. Confirmation of door numeral design (postal address) and what number goes on each door. (NB The door numeral (postal address) is usually different to the unique door number on GA drawings.)
9. Where ironmongery is specific to either the push side or pull side, the side needs to be included eg. *bathroom turn to pull side, cylinder turn to push side, FDKL sign to pull side.*
10. On PAS24 doorsets the attack face (push side or pull side) must be identified.
11. Ironmongery Positions to either DP16701 for imperial doors or DP16658 for metric, or the DP for customer specific positions (including short/half height doorsets)
12. Aperture positions and DP number (NB Check with Technical on aperture position and size constraints for door cores other than Strebor)
13. Screen drawings and DP number (NB Add either structural opening or overall frame size to drawing register)
14. Where a four-sided frame is required, note whether the architrave is four-sided or standard three-sided. Ironmongery position also requires confirming depending on how far off the floor the doorset is fitted.
15. Hardwood threshold material and profile and whether sent loose for fitting between the jambs or to be screwed to the bottom of the jambs. (NB Threshold gaps needs adjusting to suit).
16. Material sheet matches the quote and that the ironmongery is suited eg. *lever handles and bath turns from the same product range.*
17. Lipping/Beading and Glazing Bead Finish. If a special sample has been approved include the Works order number and line number.
18. Intumescent Colour if not standard. Standard colours given below, all with black brush if required:
 - Primed frame – white intumescent / acoustic seal
 - Lacquered timber frame – brown intumescent / acoustic seal
 - Primed door – white intumescent to meeting stiles
 - Other doors – brown intumescent to meeting stiles
19. If intumescent is factory fitted, this needs to be stated on the quote.
20. Chain of Custody requirements to be confirmed by customer & stated on the quote.
21. Delivery requested by customer, if the order is being handled by Estimating Dept.
22. Any delivery restrictions – vehicle type, delivery times, unloading method, route plan.
23. Site contact for deliveries.

Depending on the project, other information may be required and must be confirmed with the customer before the order is processed.

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B. TECHNICAL NOTES

FOB Locking systems

As well as the full product code for the lock case and lever set being used, the quotation/schedule also needs to include whether a cylinder override is required. This is usually supplied as an option and its use may not be apparent from the product code for the lock case/lever set. The cylinder override usually has to be machined by hand in assembly as it is on the push side of the door and cannot be machined on the CNC machines. For this reason if it is required it needs including in the ironmongery fitting box on the works order.

Bathroom Lockcases

The BAE5030 lockcase is only to be used on residential bathroom/ensuite doors that have no DDA requirement. All other locations including communal WC's within apartments are to use a Din Spec lock case. This provides increased durability and greater spacing between the lever and turn for DDA use.

Push Bars/Push Pads

Please see subsequent change to the use of a AR883 further down.


When specifying push pads or bars such as the Arrone AR883 (below) please use in conjunction with a rebated frame rather than a frame with a plant-on stop.



If a plant-on stop is used and the instructions for fitting the push pad are followed, it means that the stop has to be cut to allow the door to close due to the location of the push pad. Also the keep then has to be located in the middle of the jamb, making the strike plate in-effective and causing the latch to hit the frame. Please see photo below.

If a rebated frame is used it enables the keep to be positioned on top of the frame allowing the strike plate to work. However in order to do this the push pad needs to be positioned further in from the edge of the door than the instructions state. If the instructions state fit the push pad 5mm from the edge of the door, then this should be increased by the depth of the rebate (usually 12mm). BUT this needs to be checked before fixing the push pad to the door. Please add a note to the assembly ironmongery fitting box for the position to be checked before fitting.



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Use of AR883 Push Pads

The AR883 is designed to be used as an emergency exit and as such will not latch if fitted with a self-closing device. (The latch itself doesn't retract fully without the push pad being pressed and due to the position/size of the push pad, the pad will hit the frame and stop the door from closing further. In order to close the door once opened the push pad has to be depressed and door pulled shut with the pad depressed.)



Use of these push pads is not recommended.

If an escape function is required on a door that is going to be used frequently please use an escape sashlock or a mortice night latch with a lever only fitted to the 'escape from' side and a single cylinder to the other side if key access re-entry is required.



A 'Half Set Spindle & Fixing Kit For Bolt Through Door Handles' would also be required to enable a half lever set to be used with bolt-through fixings (see below).

Sliding Glass Screens (eg for Reception desks)


The glass will have exposed edges (edges that aren't hidden by beading or the sliding track system) and the glass will need to be purchased with these edges polished. Allow for all edges to be polished.

Dust boxes for keeps

Not all of the ironmongery we use comes with dust boxes, where they are supplied the jambs are to be machined for the box (allowance is made within the PAR parameters) and the dust boxes fitted. Where a customer specifically requires back boxes this needs to be taken into account at the quotation stage and priced accordingly.

Multi-point locks

Whilst we generally only use multi-point locks on PAS24 doorsets, the intumescent detail remains the same on doorsets that aren't PAS24 as this is a requirement of the fire certification of the lock as well as a requirement for PAS24.

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FD90 & FD120 Lock Cases from Halspan

Halspan are currently using a sashlock as both a sashlock and deadlock. The lock comes complete with two face plates depending whether the lock is to be used as a sashlock or deadlock. If the lock is being used as a dead lock (which will be the majority of instances as they are generally used for risers) then the lever spindle holes do not require drilling. Two separate PAR numbers have been created for use as a sashlock or deadlock.

Salto Lever sets

When requesting drawings or generating works order the full part codes for the lockcase, strike plate and escutcheon (lever set) must be used. If a Salto escutcheon code isn't included it will be assumed that a standard lever will be used and the through-bolts for the escutcheon not machined.

Where we are fitting the lever set, drawings and parameters are set up so that the bottom through-bolt hole and the main spindle hole are tight for the handle. This should ensure the lever set is fitted straight in assembly, whilst allowing a larger diameter hole for the top through bolt and cable.

Where we are not fitting the lever set the drawings and parameters should match the standard Salto instructions.


Concealed Closers to the Head of the Door/Frame

Due to the large cut-outs required in the head of the frame when using a concealed closer these doorsets are to be specified with flat architrave to the pull side. Note: Increase the head stop to 20mm thickness.

Premdor Soundsecure SBD/PAS24 Doorsets

Premdor do not offer any Chain of Custody with these doorsets
Certifire Labels

The following labels are required on the doors we manufacture in house, the labelling instructions for the door blank (highlighted in yellow) need to be included on the works order:

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FD30 Doors			
Door Blank	FD30	Glazed	Certisecure
Strebord 44mm and 54mm	CF5228	+CAF196 (Glazed Aperture Version)	+CS5082
Flamebreak 44mm	CAF196 (Certified Non-Glazed Fire Door Blank) & CAF196 (CF5260 version)	+CAF196 (Glazed Aperture Version)	+CS5082


FD60 Doors			
Door Blank	FD60	Glazed	Certisecure
Strebord 54mm	CF5229	+CAF196 (Glazed Aperture Version)	+CS5082
Halspan Prima 54mm	CAF196 (Certified Non-Glazed Fire Door Blank) & CAF196 (CF436 version)	+CAF196 (Glazed Aperture Version)	

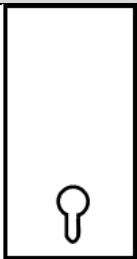
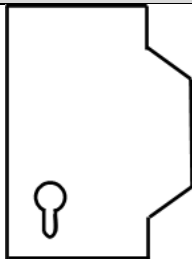

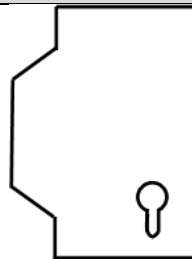

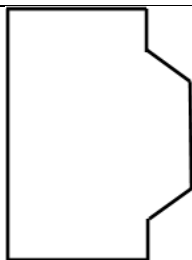

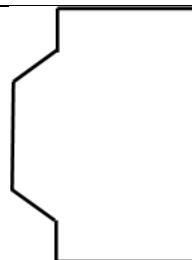
Quick2Fit Architrave

Not to be specified or quoted in hardwood or softwood due to the stability of the timber.

PAS 24 Attack Plates required for 392CE Night latches and GK231M Electric Strikes

In order for a door with a night latch and electric strike to meet the requirements of PAS24, a lock case guard is required on the attack side of the night latch. In order to simplify this, lock case guards should be fitted to both faces. The table below shows which drawing number and sage code is required for left and right-handed doors and for night latches with and without cylinders.

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	LEFT		RIGHT	
	PUSH	PULL	PUSH	PULL
With Cylinder	 <div> <div>DP17856</div> <div>IRON05803</div> </div>	 <div> <div>DP18952</div> <div>IRON06351</div> </div>	 <div> <div>DP17856</div> <div>IRON05803</div> </div>	 <div> <div>DP17541</div> <div>IRON05602</div> </div>
Without Cylinder	 <div> <div>DP18250</div> <div>IRON06012</div> </div>	 <div> <div>DP18409</div> <div>IRON06068</div> </div>	 <div> <div>DP18250</div> <div>IRON06012</div> </div>	 <div> <div>DP18251</div> <div>IRON06013</div> </div>

Guidance on the use of Mag Locks on fire rated doorsets.

In order to provide suitable security and resistance to attack, the component fitted to the door (usually the armature) needs to be bolted through the door rather than screw fixed to the face of the door. The use of bolt-through fixings at the top of a door on the latch side however can significantly reduce the fire performance of a doorset and as such please follow the guidance below.

Our Certifire certificate do not include scope for the use of bolt through fixings for mag locks however Supplement 531312 permits the use of surface mounted armature plates with the following specifications

- The armature plates shall be wholly surface mounted, with the exception of the armature bolt
- Bolt through fixings shall be steel
- The recess for the bolt through fixing shall be limited to 15mm diameter, however the recess size shall be reduced, as applicable to ensure the armature bolt is tightly fitted, whilst allowing for the intumescent protection required.
- The bolt through fixing / recess shall include intumescent protection in the form of a 1mm thick graphite tube, to the full depth of the recess / leaf thickness
- Mag lock components are required to be wholly surface mounted (with the exception of the armature bolt) and shall not penetrate the door to frame perimeter gapsOur Certifire certificates don't currently include scope for the use of bolt-through mag locks and as such we cannot offer mag locks with use

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with our doorsets. Where a customer requires mag-locks (and these are normally supplied by the M&E company) we would advise them to check that any fire certificate covering their application is examined to ensure the testing was undertaken with bolt-through fixings to the door. We have come across a number of test reports recently where the test was carried out with the relevant components only screw fixed to the face of the door which would provide limited resistance to attack in use. We would also recommend they consult their Building Control Officer to confirm their suitability.

Guidance on glazed doors with apertures & face fixed closers

Following a review of the Certifire certificates for Doorpac standard face fixed closers the certain restrictions have been noted:

1. Face fixed closers cannot be fitted in doors that include uninsulated glass above 20% of their area – applicable to all face fixed closers in Doorpac's standard offer.
2. Uninsulated glass cannot be used directly beneath Dormakaba face fixed closers.
3. To work around these restrictions the following has been approved:
4. Doors that include glass above 20% of their area must be specified with insulating glass – Pyrobel 16 to DP15664 for FD30/30 applications & Pyrobel 25 to DP15533 for FD60/60 applications.
5. Specify either Arrone closers or specify insulating glass when using Dormakaba closers in door leaves incorporating 1G or 2G apertures.

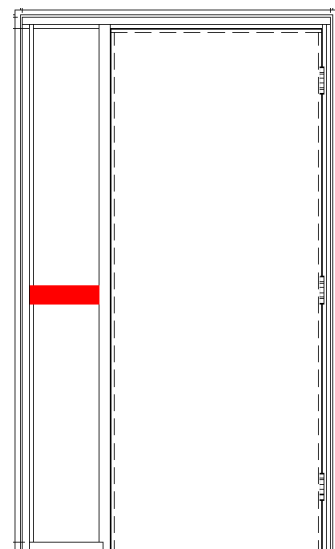
A door & glass area calculator has been added to the Technical Datasheet to enable checks to be carried out. However please be aware that the position of an aperture will also play a part in determining which closer should be specified.

It should be noted that the standard 8G aperture has a glass area in excess of 20% of the area of a 926 x 2040mm door and therefore would require insulating glass as standard.

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Guidance on the full height side-lights

Due to a number of customer complaints where we have supplied full height single pane side lights where the latch side jamb has bowed, all full height side lights are to have a central mullion as indicated by the red section below. Without this central mullion the latch jamb is free to move and any movement will affect the gaps and/or operation of the door. As standard the mullion is located at 900mm from floor level to avoid any unsightly line with the lever handle. If a customer specifically requests a single pane side light then a disclaimer must be obtained from the customer before processing the order, that they take responsibility for any movement of the latch jamb.



Hooded Door Stops

With the increase in the use of timber thresholds a potential issue has been identified with the use of our standard hooded doorstop – Consort DS75. The doorstop is 24-25mm high and when used with doorsets that have a timber threshold might not be tall enough for the door to hit, with the door passing over the top of the stop instead. For example, if a 15mm thick threshold is used in conjunction with a 7mm threshold gap the floor only needs to be out by a couple of mm for the door to pass over the door stop completely.

When timber thresholds are added to a quotation (either at quoting or contracts stage) please be aware that the door stop is likely to require changing as well. An alternative is the Consort DS77 pedestal doorstop which will work with gaps up to approximately 30mm.

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