### DOOR HARDWARE SCHEDULING

### INTRODUCTION

This TECHnote outlines the two alternative approaches to specifying door hardware that have been provided for in the schedules in NATSPEC's *0455 Door hardware* worksection: two-stage scheduling and proprietary scheduling.

### TWO-STAGE SCHEDULING

On larger, more complex projects, rather than preparing detailed door hardware schedules themselves, many architects or designers engage a specialist for the task. In this approach specifiers need to prepare a selection schedule which functions as the briefing document used by a door hardware consultant, manufacturer or supplier to prepare a detailed door-by-door hardware schedule.

### Stage 1: Selection schedule

Initially, specifiers identify the types of door hardware required for broad classes or groups of rooms based on their function, e.g. offices, storerooms, toilets, fire exits. Specialist buildings like hospitals often have well-defined room function groups and well-defined hardware requirements. Specifiers can document their hardware requirements for each room type in the **Door hardware selection schedule** in *0455 Door hardware*.

### Stage 2: Door-by-door schedule

The completed *0455 Door hardware* worksection including the **Door hardware schedule** can be used by a hardware specialist to prepare a door-by-door schedule showing the details of every hardware item. The preparation of door-by-door schedules is usually provided by door hardware manufacturers or suppliers as part of their service.

This sort of schedule is usually prepared using purpose-made software. Once data has been entered into the software's database, it can be used to create reports in several formats, e.g. inventories of every hardware item, which simplify costing and ordering

If a door-by-door schedule has not been prepared before tendering begins, a selection schedule customised for the project will contain enough information for tenderers to obtain competitive prices from hardware subcontractors. The format may follow NATSPEC's or your own office's documentation policy.

### **Customising the NATSPEC door hardware worksection**

Make the following selections for the locks and latches of each room function group: Classification ratings to AS 4145.2 Section 3 *Performance requirements*, covering durability, cylinder security, physical security (strength), keying security and corrosion. Guidance for the selection of these ratings is given in AS 4145.1 Appendix A.

- Lock description/action to suit the room function, e.g. passage latch.
- Manufacturer, hardware series, handle or knob style, escutcheon plate style, finish for each lock type required, e.g. standard and narrow stile.
- Keying, e.g. keyed to differ (KD). See sidebar for abbreviations. Note other door hardware items required including bolts, panic exit devices, furniture, handles and plates, closers, door controllers, electronic controls, hanging systems and ancillary hardware items.

### **PROPRIETARY SCHEDULING**

The alternative to the two-stage scheduling process described above is to directly specify proprietary door hardware items required for each door. The **Door hardware schedule** included in the worksection can be used for this purpose. This approach is more common for smaller commercial or domestic projects.

### **EXAMPLE SCHEDULE**

The schedule on the following page is an example of a door hardware selection schedule that has been downloaded from **Technical Resources** at <a href="https://www.natspec.com.au">www.natspec.com.au</a> and customised for a typical office building. It documents the door hardware requirements for each room type in the project. Supporting information, such as abbreviations used, gives the recipient a full picture of what is required. It should be accompanied by a set of general arrangement drawings. The downloadable schedules are available in MS Word (.doc) or Excel (.xls) formats and are set up to print on an A3 sheet.

# AS 4145.1 rating system for locksets

The rating system categories and the designations for each are as follows:

- Lockset security: S<sub>L</sub>1 S<sub>L</sub>10
- Lock security: S1 S10
- Durability: D1 D10
- Corrosion: C1 C10
- Key security: K1 K10
- Cylinder security: S<sub>c</sub>1 S<sub>c</sub>10

# AS 4145.1 Appendix D keying abbreviations

CMK: Construction keyed

CK: Change key

GGGMK: Great great grand master key

master key

GGMK: Great grand master key

GMK: Grand master key KD: Keyed to differ

KA: Keyed alike

MAIS: Maison keyed

MK: Master key

SKD: Single key differ

MTA: Maison to accept

VKC: Visual key control

### Relevant standards

AS 4145 series Locksets and hardware for doors and windows:

Part 1 Glossary of terms and rating system

Part 2 Mechanical locksets for doors and windows in buildings

Part 5 Controlled door closing devices (EN 1154:1997, MOD)

### Relevant worksections

0451 Windows and glazed doors

0453 Doors and access panels

0455 Door hardware

0456 Louvre windows

0457 External screens

0527 Room dividers

0981 Electronic security

## DOOR HARDWARE SCHEDULING

# DOOR HARDWARE SELECTION SCHEDULE

Lever on plate - Narrow stile Lever on rose Pull handle on handle plate Push plate Lever on plate Lock furniture type
LP Lever on pl
LR Lever on ro
PH-HP Pull handle
PP Push plate Glazed aluminium shopfront Medium density fibreboard Double door Solid core Steel Aluminium Property abbreviations Door leaf/frame type AL Dbl GA MDF SC ST 3 storey office building with 1 level of basement carparking A101c, A102d, A103c, A104c, A105b Lever/plate furniture series - standard width: 600-25 - concealed fixing Fortitude Valley QLD 4006 Acme Industries Hardware finish: SCP or SSS Lever/rose furniture series: 270-25 Door hardware requirements Manufacturer: KABA Reference drawings: Project location: Building description: Project details Project name:

Notes
All terminology, abbreviations, ratings and classifications for the following items to AS 4145.1:
Lock function, Keying, Durability rating, Keying security, Cylinder security, Physical security of locks,
Physical security of door locksets and Cornosion classification.
Door handing to be designated by supplier by reference to drawings

Push plates and pull handles on plates series: 5250 - concealed fixing

Entrance handles: PH3605UFSSS

Lever/plate furniture series - Narrow style: N600

Door closers: 7000 Series generally, 9000 Series for high use doors Door stops: Wall mounted where possible, floor mounted elsewhere

Door and door hardware schedule	lule														
Interior or D	Door	Fire rating	Closer	Door seal	Electronic	Lock	Lock function   Keying   Durability	Keying	Durability	Keying	Cylinder	Physical	Physical	Corrosion	Notes
exterior le	leaf/frame	(FRL)		type	control	furniture			rating	security	security	security of	security of security of	class.	
	type					type						locks	locksets		
Exterior	GA/GA	ı	Sə	Weather	ı	SNAT	Vestibule lock	MK	D8	K7	Sc6	S5	SL5	CZ	Entrance handles
	SC/ST	ı	Yes	ı	Card reader	ПP	Vestibule lock	MK	D7	K7	9ce	SS	SL5	90	
					access, push button exit										
Interior	MDF/AL	2	ON	2	2	LR	Passage latch	~	LO LO	~	~	~	~	90	
Interior	Dbi MDF/AL	ì	ON	Acoustic	ı	LR	Passage latch	ž	D7	Z	2	~	2	9 <b>0</b>	
Interior	SC/ST	ì	SeY	ì	ł	PH-HP/PP	ł	ł	D7	2	2	3	ł	90	
Interior	SC/ST	2	Sə	2	2	PH-HP/PP	~	~	D7	~	~	~	~	90	
Interior	MDF/AL	ì	ON	ı	ı	LR	Passage latch	2	D7	2	~	2	~	90	
Interior	SC/ST	ì	No	ž	ì	LP	Escape lock	MK	D7	K7	Sc6	S5	SL5	90 90	
Interior	SC/ST	~/60/30	Yes	Smoke	ł	ПP	Escape lock	MK	9G	9X	Sc5	SS	SL5	90	
Interior	SC/ST	~/60/30	Yes	Fire	ı	LR	Closet lock	MK	9Q	K6	Sc5	SS	SL5	90	~/120/30 for main
															switchboard
Exterior	SC/ST	~/60/30	Yes	ì	ı	LP	Exit latch	ì	D7	ı	ì	ì	ł	C7	No external lever
Interior	SC/ST	~/60/30	SeY	2	2	dП	Passage latch	~	9G	2	~	~	~	90	
Interior	SC/ST	ı	ON	ı	ı	LR	Closet latch	2	9Q	ı	ı	ı	ł	90	Or catch