



# DEPARTMENT OF PUBLIC WORKS

## HARDWARE SAMPLE LIST

DECEMBER 1995

## **DEPARTMENT OF PUBLIC WORKS**

### **HARDWARE SAMPLE LIST**

The finishes to the various articles, unless otherwise described in tender documents, are to be as per sample exhibited on the Sample Board of the Department and to have a finish as stated hereunder:

- (a) Articles manufactured of metal and/or metal alloys, but excluding aluminium, stainless steel or, as otherwise described, are to have a satin chrome finish. except where polished brass is required and
- (b) Articles manufactured of aluminium are to have a natural (clear) anodise or epoxy powder coated finish, and
- (c) Articles manufactured of stainless steel are to have a satin finish.

Door locks where possible, are each to be provided with furniture as supplied by the Manufacturer of the lock.

### **MASTER-KEY SYSTEMS**

Only certain locks are suitable for master-keying. Two or more Master-key systems can be provided, with a separate master-key for each system.

Each system is to comprise of the same type and make of lock having the same amount of levers or retainers, etc.

### **SELECTION OF LOCKS**

When selecting locks, careful consideration is to be given to the nominal sizes of locks and furniture for doors having lock blocks or narrow stiles.

### **ITEM NOT ON APPROVED HARDWARE SAMPLE LIST**

When special or very specific conditions requires the specification of hardware other than the approved samples, such will only be permitted when properly motivated and with the written approval of the Project Manager of the Department.

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DESCRIPTION OF ARTICLE

1. 76 mm Two lever, Upright Mortice Lock. ("Solid" Art 311 and -Union" No. 2295) 101mm "Solid" Art 361 including 76mm Dead lock "Union" No. 2195 can also be supplied. Lock with rebated forend or rebated conversion set can also be supplied.  
  
NB Locks are not suitable for master-keying.
- 1(a) 76 Two lever Upright Mortice lock and furniture (Lockset) suitable for low cost housing. ("NUTEC" Art 670/308).  
  
Locks with rebated forend or rebated conversion set can also be supplied.  
  
NB Locks are not suitable for master-keying.
2. 76mm Three Lever, Upright Mortice Lock ("Union" No. 2252 and "Solid" Art 312 available in 44 and 54 key differs respectively). Lock with rebated forend or conversion set can also be supplied.  
  
NB Locks are not suitable for master-keying.
- 2(a) 78mm. Three Lever, Upright Mortice lock ("Union" No 2277) Lock with rebated forend or rebated conversion set can also be supplied.  
  
NB Locks are suitable for master-keying.
3. 76mm, Flour Lever, Upright mortice Lock ("Solid" Art 313) 101mm: "Solid" Art 363 can also be supplied.  
  
Lock with rebated forend or rebated conversion set can also be supplied.  
  
NB Locks are suitable for master-keying.
- 3(a) 78mm Four Lever, Upright Mortice Lock.  
("Union" No. 2247. 48 key ditters).  
  
76mm "Union" No. 2261, 35 key differs, can also be supplied.  
  
NB Locks are not suitable for master-keying.
4. 78mm, Three Lever, Upright Mortice Dead Lock ("Union" No. 2157). Locks with rebated forend or rebated conversion set can also be supplied.  
  
NB Locks are suitable for master-keying.
5. 76mm, Four Lever, Upright Mortice Dead Lock ("Solid" Art 322). Lock with rebated forend or rebated conversion set can also be supplied.  
  
NB Locks are suitable for master-keying.
- 5(a) 76mm, Five Lever Upright Mortice Security Dead Lock ("Union " No. 2127). Locks with rebated forend or rebated conversion set can also be supplied.  
  
NB Locks are not suitable for master-keying
- 5(b) 78mm, Five Lever Upright Security Mortice Lock ("Union" No. 2201). Locks with rebated forend or rebated conversion set can also be supplied.

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DESCRIPTION OF ARTICLE

- NB Locks are not suitable for master-keying.
- 5(c) 103mm. Five Pin Tumbler Cylinder Upright Mortice lock ("Union" No. 22202).
- NB Locks are suitable for master-keying
- 5(d) 76mm, Six Lever Upright Security Mortice Lock having ant-picking device and supplied with case and striking box. ("Solid Art 380).
- 76 mm Dead lock ("Solid" Art 590), can also be supplied.
- Locks with rebated forend or rebated conversion set can also be supplied.
6. 78mm and 103mm. Four Detainers, (heavy duty series). Upright Mortice Locks (Sample 78mm "Union" No. 2297). Locks with rebated forend or rebated conversion set can also be supplied.
- When the above security locks are requested to have special key coding. The name of the specific service is to be stated when the order for locks is submitted to the manufacturer after submission of written authority from the Department concerned.
- NB Locks are suitable for master-keying.
7. 78mm and 103mm, Four Detainers, heavy duty series. Upright Mortice Dead Locks. Sample 78mm ("Union" No. 2197). Locks with rebated forend or rebated conversion set can also be supplied.
- Special key coding, etc., for security locks to be as for sample 6.
- NB Locks are suitable for master-keying.
8. 103mm, 78mm and 76mm Five Pin Tumbler Cylinder, Upright Mortice Lock. ("Union" No. 2205, 78mm and 103mm and "Solid" Art 315, 76mm).
- Locks having Double Cylinder, Single Cylinder or Knob Cylinder can also be supplied.
- Locks with rebated forend of rebated conversion sets can also be supplied.
- 8(a) 76mm, Five Pin Tumbler Cylinder Upright Mortice Lock with Draw Back latch. (Long throw type) ("Solid" Art 316). Locks having Double Cylinder, Single Cylinder or Knob cylinder are available. Locks with rebated forend or rebated conversion sets can also be supplied.
- NB Locks are suitable for master-keying.
- 8(b) 76mm, Five Pin Tumbler Cylinder Upright Emergency Exit Mortice Lock ("Solid" Art 318 and "Union No. 2332). Locks having double Cylinder, single Cylinder or knob Cylinder are available. Locks with rebated forend or rebated conversion sets can also be supplied.
- NB Locks are suitable for master-keying.
9. 76mm and 78mm, Five Pin Tumbler Cylinder, Upright Mortice Dead lock ("Solid" Art 323, 76mm and "Union" No. 2105. 78mm and 103mm).
- Locks having Double Cylinder, single Cylinder or Knob Cylinder are available. Locks with rebated forend or rebate conversion set can also be supplied.
- NB Locks are suitable for master-keying.

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DESCRIPTION OF ARTICLE

- 9(a) 101mm, Five Pin Tumbler Cylinder, Upright Mortice Lock suitable for knob furniture and keyhole escutcheons ("Solid" Art 365). Locks having Double Cylinder, Single Cylinder or Knob Cylinder are available.  
Locks with rebated forend or rebated conversion sets can also be supplied.  
NB Locks are suitable for master-keying.
10. 55mm, 74mm and 78mm Five Pin Tumbler Cylinder, Upright Mortice Sliding Door Locks ("Solid" Art 375. 55mm Art 329. 74mm and "Union" No. 2405, 78mm).
- 10(a) 40mm, Five Pin Tumbler Cylinder, Upright Mortice Sliding Door locks ("Union" No.2453 and "Solid" Art 374).  
Locks having Double Cylinder, Single Cylinder or Knob Cylinder are available.  
NB Locks are suitable for master-keying.
- 10(b) 40mm Four Lever Narrow. Stile, clawbolt type, Upright Mortice Sliding Door lock ("Solid" Art 373).  
NB Locks are not suitable for master-keying.
- 10(c) 32mm and 38mm, Four Lever, Narrow Stile, Hook bolt type. Upright Mortice Sliding Door lock. (Sample 38mm "Solid" Art 372).  
NB Locks are not suitable for master-keying.
- 10(d) 38mm, Four Lever, narrow Stile, Upright Mortice Dead lock ("Solid" Art 337). 38mm  
Cylinder type can also be supplied ("Solid" Art 378).  
NB (i) "Solid" Art 378 locks are suitable for master-keying.  
(ii) "Solid" Art 377 locks are not suitable for master-keying.
11. 74mm and 55mm, Four Lever, Upright Mortice Sliding Door Locks ("Solid" Art 375, 55mm wing bolt type and Art 328, 74mm claw bolt type).  
NB Locks are not suitable for master-keying.
- 11(a) 78mm, Four Detainers, Upright Mortice Sliding door Lock ("Union" No 2497).  
NB Locks are suitable for master-keying.
- 12 78mm Three Lever, Upright Mortice Sliding door Lock. ("Union" No. 2457). NB Locks are suitable for master-keying.
13. 149mm, Three Lever, Horizontal Mortice Lock ("Union" No. 2077). Locks with rebated forend or rebated conversion set can also be supplied.  
NB Locks are suitable for master-keying.
14. 154mm Four Detainers, Horizontal Mortice Lock ("Union" No.2097). Lock with rebated forend or rebated conversion set can also be supplied.  
Special key coding, etc., for security locks to be as for Sample 6.



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DESCRIPTION OF ARTICLE

15. 70mm, Five Detainers, Upright 2-Bolt Mortice Lock. ("Chubb" No. 3K70) furniture to be ordered as supplied by the lock manufacturer.
- Locks with rebated forend or rebated conversion set can also be supplied.
- Special key coding, etc., for security locks to be as Sample 6.
- NB (i) Locks are suitable for master-keying.
- (ii) The above locks cannot be master-keyed with other types of locks.
16. 73mm, Five Detainers, Upright Mortice Dead lock ("Chubb"). No. 3G 110).
- Locks with rebated forend or rebated conversion set can also be supplied.
- Special key coding, etc., for security locks to be as for Sample 6.
- NB (i) Locks are suitable for master-keying.
- (ii) The above locks cannot be master-keyed with other types of locks.
- 16(a) 80mm, Five Detainers, Upright Mortice Locking Latch ("Chubb" No. 3R35)
- Furniture to order as supplied by the lock manufacturer.
- Locks with rebated forend or rebated conversion set can also be supplied.
- Special key coding etc., for security locks to be as for Sample 6.
- NB (i) Also supplied as "Chubb" No. 3R35X for fire exit doors (deadlocking action removed).
- (ii) Locks are suitable for master-keying.
- (iii) The above cannot be master-keyed with other types of locks.
17. 162mm, Five Detainers, Horizontal 2-Bolt Mortice Lock. ("Chubb" No. 3J60).
- Locks with rebated forend or rebated conversion set can also be supplied.
- Special key coding, etc., for security locks to be as for Sample 6.
- NB (i) Locks are suitable for master-keying.
- (ii) The above lock cannot be master-keyed with other types of locks.
18. 76mm, Two Lever, Upright Mortice Lock and furniture ("Union" No. CZ 682-24-95. "Solid" Art 390/311).
- Locks with rebated forend or rebated conversion set can also be supplied.
- NB Locks are not suitable for master-keying.
- 18(a) 76mm and 78mm Upright Mortice Bathroom/WC Lock ("Solid Art 314 and "Union" No. 2226).
- "Union" No. 2294 Bathroom/WC Locks can also be supplied.

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DESCRIPTION OF ARTICLE

- Furniture to order as supplied by the lock manufacturer.
19. 40mm and 50mm Laminated Case Five Pin Tumbler Padlock having case hardened steel shackle (Sample 50mm "Solid Art 624).
20. 49mm diameter Brass Mortice Lock Furniture (Plain Knob) complete with matching rose and escutcheon ("Solid" Art 760 R).
- Alphen design and ("Union" No 5240 "Weaver" design).
- 25mm and 38mm Diameter "Alphen" design bolt through type or fixed on 110mm X 30mm backplates with or without keyhole or designed for cylinder type cupboard locks can also be supplied.
- 20(a) 50mm diameter Aluminium knob on concealed fixing rose. (Newman Tonks "Laser" 205/200). Also available on 150mm X 50mm horizontal aluminium plate for bathroom or latch applications.
- Aluminium escutcheons are available to suit type of lock used, for concealed fixing Newman Tonks "Laser" 2569 for oval cylinders "Laser" 2569 UC and for profile cylinder "Laser" 2569 YC.
21. Upright mortice latch for fire door, which is only to function from internal side of door. The case and cover plate to be of steel and all internal mechanism to be of steel brass or bronze. The internal handle to be of stainless steel or with steel skeleton handle housed in a suitable material, and backplate of stainless steel, steel, brass or bronze. The pull handle and backplate on external side of door to be of stainless steel, steel, brass or bronze but of robust construction.
- (Sample: "Solid" art 453S/310S/883S/67 having satin finish).
22. As above, but latch to function from both sides of door and both internal and external handle to be as specified for internal handle.
- (Sample "solid" Art 453S/301S having satin finish).
23. Single cylinder five pin tumbler upright fire door lock which is to function from internal side of door only. The case and cover plate to be of steel and all internal mechanism to be steel, brass or bronze. The internal handle to be stainless steel, steel or with steel skeleton handle housed in a suitable material and backplate of stainless steel, steel, brass or bronze. The pull handle and backplate on external side to be stainless steel, steel, brass or bronze but of robust construction.
- (Sample "Solid" Art 456S/318S/881S/67 having satin finish).
- NB Locks are suitable for master-keying.
24. As above, but lock to function from both sides and both internal and external handles to be as specified for internal handle.
- (Sample "Solid" Art 451 S/315S/815S having satin chrome finish).
- NB (i) Locks are suitable for master-keying.
- (ii) Different locks may be required where security doors are to serve as fire doors in which case these are to be specified accordingly.
25. Aluminium informatory symbol plates available in size 190mm X 190mm to 440 X 440mm with epoxy powder coating finish. (Sample 190mm X 190mm from "Solid")

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DESCRIPTION OF ARTICLE

- 25(a) 150mm x 150mm Engraved male/female aluminium indicator plates (Newman Tonks "Laser" 216).
- 26.
27. Locking Handle having mild steel control rods of length to suit the door for which it is intended, complete with guides and striking plates, etc.  
  
(Sample satin chrome finish "Lowe and Fletcher").
28. Extruded Brass Barrel Bolt sizes 50mm to 200mm X 25mm (Sample 150mm Brass and 100 mm satin chrome finished) ("Solid").  
  
100mm X 300mm X 32mm Bolts can also be supplied by "Howick Metal products" (Sample 100mm X 32mm Ref. H 100).
- 29.
30. Copper pipe Fittings.
- NB Head Office samples are displayed on sample boards on the six floor.
31. 51mm Five Pin Tumbler close shackle type Padlock having solid brass body and hardened steel shackle. ("Union No. 3142).
32. 38mm, 51mm and 63mm solid Brass Case five Pin Tumbler Padlocks having brass or hardened steel shackles (Sample 51mm) ("Union" No. 3102: brass shackle and no. 3122: hardened steel shackle).  
  
51 mm Padlocks having 87mm and 130mm shackles including 38mm padlocks having 20mm and 78mm shackles are available.
- 32(a) 50mm Five Pin tumbler Medium Type Padlock having Solid Brass Case and hardened steelshackle ("Union" No. 3126).
33. Five Pin Tumbler Cylinder anti-thrust Rim Night Latch (Union" No. 1037, "Solid" Art 301).
34. Brass Butt Hinges with double steel washers 100mm X 75mm ("Howick Metal products". Ref H32).
- 34(a) Brass Butt Hinges with double Nylon Washers 100mm X 75mm ("Howick Metal Products", RefH37).
- 35.
36. Brass Butt Hinges as sample 34, but with double bronze washers. ("Howick Metal Products". Ref H41 ).
37. 100mm X 75mm Brass Butt Hinges with non-removable brass pin in blind drilled hole and with double stainless steel washers ("Howick Metal Products").
- NB The use of these hinges is essential for outward opening doors to Police Stations.
38. Sheaves and Track for Sliding Cupboard Doors ("Solid" Art 191 and 192).
39. Heavy Pattern Aluminium lever flush bolt size 150mm X 22mm for wooden doors ("Solid Art 208/C91). Can also be supplied for aluminium doors.

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DESCRIPTION OF ARTICLE

- 39(a) Aluminium lever flush bolt size 150mm X 19mm and 225mm X 19mm for wooden doors in natural or colour anodising (available up to 1m long) - ("Alufab").
- 150mm and 300mm X 19mm aluminium flush bolts can also be supplied by "Howick Metal Products" .(Sample 150mm X 19mm Ref. H 145).
- 150mm and 200mm X 20mm Aluminium flush lever bolts can also be supplied by NewmanTonks (Sample 150mm X 20mm "Laser" 219).
- 39(b) Aluminium lever flush bolt, size 150mm X 19mm and 225mm X 19mm for metal doors in natural or colour anodising (available up to 1m long) - ("Alufab").
40. Extruded Brass Necked Socket Bolt: 102mm. 150mm and 200mm X 25mm (Sample 150: Solid Art 215).
41. 150mm to 300mm X 19mm Extruded brass lever flush bolt for wooden doors, having polished or satin finish (Sample 150mm X 19mm "Howick Metal Products", Ref H160 satin finish).
- 41(a) Extruded Necked socket bolt sizes 50mm to 200mm X 25mm. (Sample 150mm "Halcast" satin finished).
42. 51mm Mortice Indicating Bolt with Emergency Release. ("Solid" Art 294).
43. Zinc alloy indicating door bolt Surface Mounting type. Satin Chrome finish ("Solid" Art 293/E41 and "Union" No. 80941).
- 43(a) Aluminium Indicating door bolt surface mounting type (Newman Tonks "Laser" 221).
44. 150mm X 38mm Extruded Brass spring loaded Chain Bolt having 620mm length chain. ("Howick Metal Products", Ref. H116).
45. 203mm X 50mm Chain Bolt with 620mm length chain. Length of chain to order are available ("Ambrose" Ref. CB 418B for black japanned and CB 418G for galvanised finish).
46. Gate or Door Stop (Weighted) for setting into concrete, tarmac, etc. ("Ambrose").
- 47.
- 48.
49. 91mm and 95mm Aluminium Bolt Through type Drawer and cupboard pull handles. ("Solid" Art123 Sample epoxy coated and "Union" No. AL5D1 Sample Anodise Silver).
50. Pour lever Brass Straight Cupboard Lock. size 64mm and 76mm (Sample 64: "Solid Art 27 and "Union", No. 4184).
- 50(a) Three lever Brass Straight Cupboard Lock, size 53mm, 64mm and 76mm (Sample 64mm: "Solid" Art 24).
51. Two Lever Brass Straight Cupboard Lock, size 53mm, 64mm and 76mm (Sample 64mm: "Solid Art 23 and "Union" No. 4126).
- 51(a) 53mm Five Pin Tumbler Cylinder Brass Cupboard Lock complete with rose. ("Solid" Art 52: Sample having polished brass cylinder 25mm long).
- Polished brass and Chrome plated cylinders of 22mm, 25mm, 32mm and 38mm long can also be supplied.

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DESCRIPTION OF ARTICLE

- NB Locks are suitable for master-keying.
- 51(b) 53mm Five Pin Tumbler Cylinder Brass Drawer Spring latch Lock complete with rose. ("Solid Art 62: Sample having chrome plated Cylinder 22mm long).
- Polished brass and chrome plated cylinders of 22mm, 25mm, 32mm and 38mm long can also be supplied.
- NB Locks are suitable for master-keying.
- 51(c) 52mm Five Pin Tumbler Cylinder Brass Cupboard Lock. ("Union" No. 4110: Sample having brass cylinder 28mm long).
- NB Locks are suitable for master-keying.
52. Brass Drawer Pull. ("Halcast").
53. Square Sunk Flush Lift or Drawback Handle 102mm X 32mm and 102mm X 51mm. Sample 102mm X 51mm ("Halcast").
54. Four Lever Brass Drawer or cut Cupboard lock, size 72mm ("Solid" Art 30).
55. Two Lever Brass Drawer or cut cupboard size 64mm and 76mm (Sample 64mm) ("Solid" Art 15).
56. Locking Push Button Cupboard Catch and dummy handle ("Union" No. 5174 and No. 5176).
- 56(a) Locking Push Button Cupboard Catch and Triangular shaped Handle (Sample "Lowe and Fletcher" No. L800 having satin chrome finish).
57. Push Button Set, comprising Cupboard Catch and Handle ("Union" No. 51741).
- 57(a) Push Button Set, comprising Cupboard Catch and Triangular shaped handle. (Sample "Lowe and Fletcher" No. NL 800 having satin chrome finish).
- 57(b) Triangular shaped Dummy Handle matching samples 56a and 57a. (Sample "Lowe and Fletcher" No. D800 having satin chrome finish).
59. Multi-purpose firelight ventilator ("Ventco Engineering" No. 172F).
- 59(a) Multi-purpose Fire Ventilator, type Curvent "Fire King" 'S.S. having a throat opening of 1,37m<sup>2</sup>.
60. Flowline Louvre. ("Ventco Engineering").
61. "All-ways" Brass Fanlight Opener having satin chrome finish ("Solid" Art501/A41).
62. "All-ways" Malleable Iron, Brown Finished Fanlight Opener. ("Solid" Art 501/A20).
- 62(a) "All-ways" Brass Fanlight Opening ("Solid" Art501/B5).
63. Non-Stretch and Non-Curl Endless cord ("Solid" Type A)
64. Sash Cord
65. Spring loaded "Facet" design Aluminium Lever handle on 152mm X 40mm concealed backplate (Ellipse furniture 1011 with keyhole). Backplates are also designed for cylinder types locks. Sample anodised aluminium also available in epoxy powder coated colours

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DESCRIPTION OF ARTICLE

66. Spring loaded "Facet design" Aluminium Lever handle on 152mm X 76mm backplate (Profile furniture 1028 for cylinder types) Sample anodised aluminium also available in epoxy powder coated colours.
67. Spring loaded "Facet design" Aluminium Lever handle on 152mm X 177mm backplate (Ellipse furniture 1003 for cylinder types and with keyhole). Sample anodised aluminium also available in epoxy powder coated colours.
68. Spring loaded "Facet design" furniture aluminium (lever handle with rose with aluminium cover plate. (Profile 1039/1036) Escutcheons are available to suit type of lock used.
69. Galvanised Mild Steel Down Pipe Bracket of 1,6mm thick metal.
70. 4 Roll heavy duty mild steel thief and vandal proof, epoxy coated toilet roll dispenser having "Tuff Lock" locking mechanism in the base of the unit.  
("Class Products - Tuff Roll)
- 70(a) 3 Roll mild steel thief and vandal proof, epoxy coated toilet roll dispenser having Tuff Lock\* locking mechanism at the upper end of the unit.  
  
(•Class Products - TS003)  
  
Two roll units can also be supplied.  
  
("Class Products" • TS 002).
71. Toilet Role Holder Thief Proof Type (Sample "Halcast" Satin Chrome finished).
- 71(a) Aluminium toilet roll holder non-thief proof type (Newman Tonks "Laser" 231).
72. Brass Butts: sizes 100m x 75mm, 75mm x 47mm, 63mm x 41mm and 50mm x 35mm (Sample 100mm x 63mm "Howick Metal Products", Ref H27, H23, H21, and H17)
73. Brass Butts: sizes 100mm x 63mm, 63mm x 35mm, 50mm x 29mm and X 38mm X 22mm, 100mm X 63mm (Light). ("Howick Metal Products" Ref. H28, H25, H20, H16, H14
- 74.
75. Shelf Studs and Strips. Raised type. 75(a) Shelf Studs and Stripes, flat type.
76. 100mm X 100mm Brass Butt Hinge, with bronze pin. The following sizes are also available: 100mm X 75mm Medium, 100mm X 63mm Light, 100mm X 63mm satin chrome, 75mm X 47mm satin chrome, 63mm X 35mm satin chrome, 63mm X 41mm, 100mm X 75mm satin chrome, 150mm X 100mm satin chrome ("Howick Metal Products").
77. 100mm X 75mm Brass Butt Hinges with double stainless steel washers and bronze pin (Sample 100mm X 75mm ("Howick Metal Products", Ref. H32 S/C.
- 78.
- 78(a) 100mm X 75mm Aluminium Butt Hinge (nylon bushed and brass pin, not removable) in natural anodising ("Howick Metal Products", Ref. H091).
- 78(b) 100mm X 75mm Aluminium Butt Hinge (nylon bushed and aluminium alloy pin not removable) in natural or colour anodising - ("Alufab").
- 78(c) 100mm X 40mm Aluminium sinkless hinge (nylon bushed and aluminium pin not removable) with

SAMPLE  
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DESCRIPTION OF ARTICLE

- central knuckle in natural or colour anodising - ("Alufab").
- 78(d) 100mm X 42mm Aluminium sinkless hinge (nylon bushed and aluminium alloy pin not removable) with offset knuckle in natural or colour anodising - ("Alufab").
- 79.
80. Brass Adjustable Friction Sash Centre. ("Howick Metal Products". Ref H77).
81. 100mm X 100 mm Brass Parliament hinge with a non removable brass pin in a blind hole ("Howick Metal Products"),
82. Security Hinge Bolt ("Chubb" No. WS 12).
83. Parliament hinge size 100mm X 100mm ("Howick Metal Products" Sample brass H83).
84. 102mm X 76mm, 51mm X 76mm and 76mm X 60mm Steel Butt Hinges (Sample 102mm X 76mm).
85. Brass roller stay, sizes, 250mm, 200mm and 150mm. Satin chrome plating. ("Howick metal Products", Ref. H78, H79 and H80)
86. Combined Cock and Nozzle for Fire Hose Reel ("SABAL" type).
87. Sliding Stay. for Outward Opening Sash (Sample: "Halcast" satin chrome finish).
88. 203mm roller Stay for Fanlight. Stays 102mm, 152mm, 254mm and 305mm long can also be supplied (Sample: "Halcast" satin chrome finish).
89. Brass Fanlight Catch and keep (Sample: "Halcast" satin chrome finish).
- Polished brass can also be supplied.
90. Brass Bow Handles, sizes 102mm and 152mm (Sample 152mm "Halcast" satin finish).
- 91.
92. Inspection Junction and Bend for Waste Pipes, etc, (Brass and cast iron).
93. 216mm Long Briton 1000 series overhead door closer with plastic casing: Surface mounting type (Sample: "Solid Briton 1003 having silver coloured casing).
- NB
- (i) The type of door closer to be selected to suit the door size limits as recommended by the manufacturer and as SABS 1510-1.
- (ii) The above door closers are not to be used on fire doors.
- (iii) Where door closers are to be used on fire doors, these are to be specified separately and as required by the mechanical section at Head Office.
94. 100mm Brass Drawer Pull (sample satin finished: "Halcast").
95. Overhead door closer for doors up to 950mm wide and having a mass not exceeding 60 kg to open at a maximum angle of 180°.

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- Rack and pinion mechanism for three different strenghts (Newman tonks "NT 121" silver finish").
96. Overhead door closer for doors up to 930mm wide and having a mass not exceeding 60kg to open at a maximum angle of 180°. Available with hold open, delayed action or back check facility. Standard fixing for regular arm, transom and parallel arm. (Newman Tonks "Briton" 2003 S, Variety of finishes).
97. Overhead door closer for doors up to 1330mm wide and having a mass not exceeding 150kg to open at a maximum angle of 180°.
- Available with hold open, delayed action. Rack and pinion mechanism adjustable strength with back check. (Newman Tonks Briton 2508 S. Variety of finishes).
- 98.
99. Brass Drawer Handle (Sample satin chrome finish: "Halcast").
100. Brass Drawer Handle (Sample satin chrome finish: "Halcast").
101. Brass Cabinet Handle (Sample satin chrome finish: "Halcast").
102. Aluminium flush pull, anodised. (Sample epoxy coated: "Solid" Art 82).
103. Brass Cabinet Handle (Sample satin chrome finish: "Halcast").
104. 200mm Black japanned Gate Latch ("Ambrose").
105. 457mm Monkey Tail Bolt, having 16mm X 16mm Bolt provided with 12mm diameter rod having knob handle running on steel balls provided with spiral springs. (Grip handle can also be supplied). "Ambrose" Ref. MT. B. for black japanned and MT.G. for galvanised finish (Sample: Galvanised).
106. 254mm Barn Door or Storehouse bolt having 20mm X 20mm bolt running on steel balls provided with spiral springs. "Ambrose" Ref. BDSB.B for Black Japanned and BDSB .G for galvanised finish). (Sample: Galvanised).
107. 178mm X 50mm X 5mm Brass Hasp and Staple, Double Knuckle Insurance Type (Sample Satin chrome finish "Howick Metal Products" Ref. H55).
108. 203mm X 40mm Swivel Locking bar for screw fixing. Sizes 152mm, 254mm X 40mm and 305mm, 356mm X 50mm are also available. "Ambrose" Ref. LS.B for black japanned and LS.G for galvanised finish. (Sample: Black Japanned).
109. 305mm X 50mm Swivel Locking Bar with hasp cradle for screw fixing. 356mm X 50mm is also available. "Ambrose" Ref LS.B for black japanned and LS. G for galvanised finish. (Sample: Galvanised).
110. 305mm X 50mm Bolt-on Locking Bar. Sizes 152mm, 203mm, 254mm X 40mm and 356mm X 50mm are also available. "Ambrose" Ref. LB.B for black japanned and LB.G for galvanised finish. (Sample: Black Japanned).
111. 305mm X 40mm Band Hinge with screw on plate. Sizes 254mm to 559mm X 40mm and 610mm to 914mm X 50mm are available. "Ambrose" Ref HB.B for black japanned and HB.G for galvanised finish. (Sample: Black Japanned).
112. 305mm X 40mm Reversible Band Hinge (non-lift off pattern). Sizes 254mm to 559mm X 40mm and 610mm to 914mm X 50mm are available. "Ambrose" Ref RH.B for black japanned, and



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- RH.G for galvanised finish. (Sample Black Japanned).
113. Pin for Band Hinge, with splay for building in. "Ambrose" Ref. BI.B for black japanned and BI.G for galvanised finish (Sample Black Japanned).
- 113(a) Gate Post Pintle for Band Hinge. "Ambrose" Ref. GPP.B for black japanned and GPP.G for galvanised finish (Sample Black Japanned).
114. 64mm Three Lever Block Cupboard Lock ("Solid" Art 35E8).
115. Chromium Plated Towel Rail Brackets and Chromium Plated Tubing, sizes 19mm and 25mm diameter. (Sample "Halcast" satin finished).
- 115(a) Towel Rail Set, comprising Brackets with hexagon and Fluted Towel Rail. Lengths in increments of 150mm from 150mm from 450mm to 1200mm can also be supplied (Sample 600mm "Solid").
116. Brass Thief Proof Towel Rail Bracket having satin chrome finish )"Howick Metal Products". Ref. H120). Polished brass can also be supplied.
117. Friction Stay for Pivot or Bottom Hung Sashes and Fanlights (Flush or Face Fixing).
118. Projecting Brass Friction Hinge for Timber Casements and Fanlights ("Howick Metal Products" RefH320).
119. 32mm, 38mm and 51mm Chromium Plated Concave Drawer Pull with screws. (Sample 32mm diameter).
120. Concave knob with fixing screw size 22mm, 32mm, 38mm and 51mm diameter (Sample 32mm diameter ("Solid" Art 101).
121. Friction Sash or Fanlight Pivot.
- 122.
- 123.
- 124.
125. 104mm, Two lever upright mortice lock ("Viro" Art 2400) Lock is reversible.
- NB Locks are not suitable for master-keying.
126. 104mm, Five-pin-tumbler cylinder, Upright mortice lock ("Viro" Art 2500). Locks with double cylinders or single cylinders can also be supplied.
- NB Lock is suitable for master-keying.
127. Alarm Escape Lock System Comprising Upright mortice lock as sample 23 having furniture modernized to meet the requirements of this Department.
- Internal side of door to be fitted with a 65mm diameter push emergency exit knob furniture and audible alarm system incorporated in a housing, all formed of stainless steel, steel, brass or bronze.
- The complete alarm escape lock system to be all as specified in clause S303 of the Standard Specification for Security Equipment Ref F.P.O. 88/9E of this Department.
128. Time Delay Alarm Escape Lock System comprising upright mortice lock and furniture as sample

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- 23 or having furniture modernized to meet the requirements of this Department.
- The complete time delay alarm escape lock system to be all as specified in clause S305 of the Standard specification for Security Equipment Ref. F.P.O. 88/9E of this Department.
129. Nylon lever door handle having steel core. "Spectrum" range ("Solid" Art 952N provided with concealed fixing nylon rose Art 800 CFN: Sample Manhattan grey) concealed fixing oval and profiled keyhole escutcheons including WC indicator trims and locking snibs are also available.
130. Lever handle door furniture of U.V. stabilized colour co-ordinated nylon on 54mm X 154mm backplate with concealed fixing. The lever handles are moulded onto a metal core and obtainable in 10 colours.
131. Lever handle door furniture on rosette of U.V. Stabilized colour co-ordinated nylon with keyhole escutcheon, oval cylinder escutcheon or bathroom snibs and emergency release.
- The lever handles are moulded onto a metal core and obtainable in 10 colours.
132. Spring-loaded "Waterbok" design cast Aluminium Lever Handle on 152mm X 41mm backplate ("Solid" Art 430/67). Backplates of sizes, including backplates designed for cylinder type locks, etc.
- 132(a) Spring-loaded "Sable" design cast Aluminium Lever Handle on 152mm X 41mm backplate. ("Solid" Art 490) Backplate of sizes 152mm X 75mm, 152mm X 152mm, 177mm X 126mm and handle on rose complete with escutcheon can also be supplied including backplates designed for cylinder type locks, etc.
- 132(b) Spring-loaded "Falcon" design cast Aluminium Lever Handle on 150mm X 75mm backplate suitable for low cost housing ("Union" AL6F21 Sample Satin Chrome finish). Backplates with cut-outs suitable for lever locks, cylinder and latch locks can be supplied.
- 132(ab) Spring-loaded solid Brass Lever Handle on 152mm X 50mm Brass Backplate ("Solid" Art 770/62 "Sable" design and "Union" 612 "Protea design"). Backplate of sizes, including backplates designed for cylinder locks, etc., as for Sample 132 a (Sample satin chrome).
- 132(ac) Spring-loaded Aluminium Lever Handle on Backplate ("Solid: Medic 67" Art 420/87:) Sample epoxy coated.
- 132(ad) Spring loaded Aluminium Lever Handle on Backplate "Solid Delta 67" Art 430/67: Sample epoxy coated.
- 132(c) Spring-loaded "Springbok" design Brass lever Handle on 152mm X 41mm Brass backplate having satin chrome finish. ("Solid" Art 750) Backplates of sizes, including backplates designed for cylinder type locks, etc., all as for Sample 132a (Sample Satin Chrome).
- 132(d) Spring-loaded "Springbok" design Zinc alloy Lever Handle on 152mm X 41mm backplate.. ("Solid" Art 390). Backplates of sizes, including backplates designed for cylinder type locks, etc., as for Sample 132a. (Sample satin chrome finish).
- 132(e) Spring-loaded "Gazelle" design cast aluminium lever handle on 152mm X 41mm backplate ("Solid" Art 410). Backplates of sizes, including backplates designed for cylinder type locks, etc., as for sample 132a (Sample Satin Anodised aluminium finish).
133. Spring-loaded "Delta" design aluminium Lever Handle on 177mm X 152mm backplate. ("Solid" Art 430/67). Backplates of sizes, including backplates designed for cylinder type locks, etc., as for Sample 132a.
- 133(a) Spring-loaded, Module 75 "Dove" design. Aluminium lever handle on 150mm X 150mm

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- backplate. ("Union" AL6D22). Different sizes of backplates designed for cylinder type locks, etc., including backplates having radial corners can also be supplied.
- 133(b) Spring-loaded, Module 75 "Dove" design. Aluminium lever handle having nylon rose and aluminium cover plate. ("Union" AL6DOO) Escutcheons can also be supplied to suit type of lock used.
134. Spring-loaded "Swallow" design cast aluminium Lever Handle on 150mm X 40mm backplate ("Union" No. AL681).
- Backplates with or without keyhole or designed for cylinder type locks can also be supplied.
- 134(a) Spring-loaded "Osprey" design cast aluminium lever handle on 175mm X 40mm backplate ("Union" AL 646-24: Sample satin chrome finish). Backplates with or without keyhole or designed for oval and profile cylinder type locks, etc., can also be supplied.
- 134(b) Spring-loaded "Radius" design cast zinc alloy lever handle on 152mm X 41 mm backplate ("Union No. CZ692: Sample chrome finish): Can also be supplied in cast brass.
- Backplates with or without keyhole or designed for cylinder type locks, etc.. can also be supplied.
- 134(c) Spring-loaded "Teal" design cast aluminium lever handle on 175mm X 40 mm backplate ("Union" No. AL 664).
- Backplates with or without keyhole or designed for cylinder type locks, etc., can also be supplied.
- 134(d) Spring-loader "Bello" design cast zinc alloy lever handle on 165mm X 46m m backplate. ("Union" No. CZ678: Sample satin chrome).
- Backplates with or without keyhole or designed for cylinder type locks, etc., can also be supplied.
135. Spring-loaded "Gower" design Brass lever handle on 152mm X 41 mm Brass backplate ("Union" No. CB682).
- Backplates with or without keyhole or designed for cylinder type locks, etc.. can also be supplied.
136. Spring-loaded "Cedar" design aluminium lever handle on 152mm X 40mm concealed fixing type backplate ("Solid" Art 970 CF/C91: Sample epoxy powder coated).
- Backplates with or without keyhole or designed for cylinder type locks, etc., can also be supplied.
137. Spring-loaded "Stork" design cast brass hospital Elbow action lever handle on 165mm X 51mm backplate ("Union" NO.CB617).
- Backplates with or without keyhole or designed for cylinder type locks, etc., can also be supplied.
138. Spring-loaded "Aspen" design aluminium lever handle on 152mm X 177mm backplate (Solid Art 960/67/C91. Sample epoxy powder coated).
- Backplates with or without keyhole or designed for cylinder type locks, etc., can also be supplied.
139. Spring-loaded "Albatros" design aluminium lever handle on 150mm X 150mm backplate ("Union" No. 6A22). Similar lever handles on 150mm X 75mm backplates can also be supplied.
- Backplates with or without keyhole or designed for cylinder type locks, etc., can also be supplied.
140. 235mm Cast brass hospital pull handle, cranked for elbow action and suitable for direct fixing ("Union" No. CB 5555. Sample Satin Chrome).

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- Similar pull handles fixed on 305mm shaped brass plates can also be supplied ("Union" CB 55551).
141. Pull handle door furniture of U.V. stabilised colour co-ordinated nylon.
- Obtainable in 10 colours.
- 141(a) 95mm aluminium bolt through type cupboard door and drawer pull handle. ("Union" No. AL5D1 and 91mm "Solid" Art 123. Sample Satin Chrome.
- 141(b) 132mm Long "Delta" design aluminium pull handle on 177mm X 150mm Backplate. ("Solid" Art 883/67. Sample epoxy powder coated).
- Backplates with or without keyhole or designed for cylinder type locks, etc., can also be supplied.
- 141(c) 141mm Module 75 "Dove" design aluminium bolt through type pull handle door furniture ("Union" No.AL5D01. Sample anodised silver).
- Handles can also be supplied bolted to 192mm X 45mm or 254mm X 45mm aluminium back plates.
- Backplates with or without keyhole or designed for oval cylinder and round cylinder. can also be supplied.
142. Extruded aluminium cranked double door pull handles with concealed fixing (Sample 300mm long, finished anodised or epoxy powder coated colour) ("Union or Solid").
143. Extruded aluminium "Delta" design door pull handles with concealed back to back fixing (Sample 220mm long finished anodised or epoxy powder coated colour) "Solid" Art 882.
144. 150mm Long extruded aluminium "Facet" design door pull handle on face or concealed fixing rose (Profile 1060 or Profile 1061), lengths of 225mm and 300mm long are available as well as in epoxy powder coated colour. ("Union").
145. 150mm Long extruded aluminium "Facet" design door pull handles on face concealed fixing rose ("Ellipse" 1051 and "Ellipse" 1052). Lengths of 225mm and 300mm long are available as well as in epoxy powder coated colour. ("Union").
- 145(a) Aluminium pull handle for fixing at 135mm centres (Newman Tonks "Laser" 214). Available bolt through fixing, back to back fixing, concealed rose fixing and on 150mm X 150mm or 150mm X 75mm backplates.
146. 146mm Cast Zinc pull handle on 254mm X 45mm Brass backplate pierced for oval cylinder type of lock ("Union" No. 5503: Sample Satin Chrome).
- Backplates pierced for round cylinder type of locks can also be supplied.
- Bolt through type handles and handles on 203mm X 35mm backplates without piercing can also be supplied.
- 146(a) 200mm Long "Delta" design. Aluminium pull handle (Bolt through type) ("Solid" Art883/C91).
147. 200mm "Cedar" design. Aluminium bolt through type pull handle ("Solid" Art 873. Sample epoxy powder coated).
- 147(a) 200mm Bolt through type "Aspen" design. Aluminium pull handle ("Solid" Art 863/C91).
148. 150mm Aluminium pull handle on 254mm X 45mm backplate pierced for round cylinder type of

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- lock ("Union" No. AL5A04: Sample Satin Chrome).
- Backplates pierced for oval cylinder type locks or plates pierced for keyhole, can also be supplied.
- Bolt through type handles and handles on 192mm X 45mm backplate without piercing can also be supplied.
149. 200mm "Spectrum" range nylon bolt through type pull handle ("Solid" Art 853N: Sample Manhattan grey). Back to back fixing. Pull handles and rose can also be supplied.
150. Door stop, Cylindrical Aluminium and Plastic Buffer Type ("Union" Module 75 No. AL8730).
151. Door stop, Buffer Floor Type ("Newman Tonks" -Laser" 119 "Solid" Art255).
- 152.
153. Door holder, adjustable Dome Type.
- 154.
155. Double action floor spring for doors up to 950mm wide and having a mass not exceeding 150 kg. Available single action and hold open facility in various models and strengths (Newman Tonks "Briton" 7003).
- 156.
157. 38mm, 51mm and 76mm Light Pattern Straight Bolt (Sample 51mm "Solid" Art 201).
158. 51mm, 64mm and 76mm Light Pattern Barrel bolts (Sample 51mm "Solid" Art 203).
159. 38mm, 51mm and 76mm Light Pattern Necked Bolt (Sample 51mm "Solid" Art 211).
- 160.
161. Cabin Hook with building in lug, sizes 76mm to 305mm (Sample 152mm " Halcast satin finished).
162. Cabin Hook for screw fixing, sizes 76mm to 305mm (Sample 152).
- 163.
164. Emergency exit panic bolt and push bar with automatic relock facility when closed. Available for single and double doors (Newman Tonks "Briton" 376).
- 165.
166. 24mm Sample Roller Catch with Polythene Roller ("Solid" Art 162).
167. 30mm Double Roller Catch with Polythene Rollers ("Solid" Art 164).
- 168.
169. Aluminium Coat Hook (Newman Tonks "Laser" 139).
170. Aluminium Hat and Coat Hook (Newman Tonk "Laser" 138).
171. Wardrobe Hook ("Solid" Art 250).
172. Hat and Coat Hook, Buffer Type with 102mm projection. (Sample Satin Chrome finish "Halcast").

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173. Aluminium Hat and Coat Hook, with 93mm Projection ("Union" No. AL8721).
- 173(a) Aluminium Hat and Coat Hook ("Howick Metal Products").
174. Aluminium Hat and Coat Hook, with 93mm Projection ("Union" No. AL8721).
175. Multi rack Hat and Coat Hook Units, having plastic spacer inserts complete with end stops. (Sample 500mm long having four hat and coat hooks) ("Union" No. AL8744). Units can be extended to any suitable length.
- 176.
177. 114mm Pull handle for fixing to timber ("Union" No. 5105) Pull handle for fixing to metal can also be supplied.
178. 114mm Stream Line Drawer pull handle (Sample "Halcast" satin chrome finished).
179. 140mm Slim Line Drawer pull handle ("Solid" Art 111).
180. 57mm Drawer pull handle ("Solid" Art 92).
- 181.
- 182.
183. 28mm diameter Circular Escutcheon Satin Chrome ("Solid" Art 144 and "Howick Metal Products" H122).
184. 28 X 24mm Escutcheon (Solid" Art 146).
185. 25mm Diameter circular escutcheon ("Howick Metal Products" Ref H122 and "Halcast" satin chrome).
186. 35mm X 19mm and 42mm X 29mm Escutcheon ("Howick Metal Products" H123 and Halcast").
- 187.
- 188.
189. Sinkless hinges with off centre or centre inset leaf sizes 100mm X 44mm, 63mm X 35mm, 75 X 25mm and 100mm X 41mm ("Howick Metal Products" H41,H48, H49andH51).
- 190.
- 191.
- 192.
193. Heavy Spring clip having aluminium catch ("Howick Metal Products" RefH076/1).
- 194.
- 195.
- 196.

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197. Flush rings, sizes 38mm X 29mm, 44mm X 32mm, 50mm X 38mm, 50mm X 64mm and 76mm X 64mm (Sample 50mm X 38mm and 63mm X 50mm satin finished "Halcast").
198. Brass Hand Rail Bracket, straight with splay, 57mm high (Sample satin finished "Halcast"). Brackets for screw fixing can also be supplied.
- 199.
200. Hand rail bracket, cranked with splayed building in lugs 70mm (Sample satin finished "Halcast" brackets for screw fixing can also be supplied).
201. Brass pole hook for 32mm diameter long arm (Sample Satin finished "Halcast").
- 202.
- 203.
204. Tumbler Holder, Halux 505 ("Halcast").
- 205.
206. 100mm X 75mm, 98mm X 71mm and 60mm X 60mm Ultra-violet stabilised unbreakable, rust - and acid proof nylon butt hinges, suitable for use in marine climate BRI-KEN). (DOMLINE).
207. 42 mm long X 75mm. 98mm X 71 mm and 60mm X 60mm Ultra-violets stabilised unbreakable, rust - and acid proof nylon butt hinges, suitable for use in marine climate BRI-KEN. (DOMLINR).
- NB Show rose may be fitted to any existing shower rose arm provided with 2,5mm diameter male thread or may be ordered complete with manufacturers vandal resistant heavy plastic mounting elbow.
- Other regulators for different flow rates of 4, 6, 8, 10. 12 and 15 liters per minute can be supplied. Specify required flow rate in litres per minute when ordering.
- Departmental policy is to standardise on 8 litres per minute.
- The larger model is for use in luxury installations only.
- 208.
209. 15mm and 20 mm "Ballostop" shut-off control halve (Sample 15mm BSP male iron X 15mm BSP female iron, chromium plated). Ballostops are available either in machined brass or chrome plated, with most standard types of connections.
210. Spring loaded aluminium lever handle on round rose, concealed fixing (Newman Tonks :Laser" 190/200).
- Aluminium escutcheons are available to suit type of lock used for concealing fixed Newman Tonks "Laser 2569C. for oval cylinder "Laser 2569UC and for profile cylinder "Laser" 2569YC.
211. Spring loaded aluminium lever handle on round rose (Newman tonks "Ariel" 2277/2422. Also available on 150mm X 41mm backplate for lever lock and bathroom facilities. For escutcheons see sample 210.
212. Spring loaded aluminium lever handle on round rose (Newman Tonks "Cavalier" 2390/2422).

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- Also available on 150mm X 41mm backplate for lever lock and bathroom facilities.
- For escutcheons see sample 210.
213. Spring loaded aluminium lever handle on 150mm X 150mm backplate (Newman Tonks "Laser" 190/203U).
- Also available on 150mm X 75mm backplate with cut-outs to suit type of lock used. Handle also available in Grade 316 stainless steel.
214. Spring loaded aluminium lever handle on 150mm X 40mm backplate for concealed fixing (Newman Tonks "Laser" 190/201 L).
- Also available on 150mm X 50mm with cut-outs to suit type of lock used.
- Handle also available in Grade 316 stainless steel.
215. Spring-loaded aluminium lever handle on 150mm X 40mm backplate concealed fixing available with cut-outs to suite type of lock used (Newman Tonks "Delta" 250/2471)
216. Spring-loaded aluminium lever handle on 150mm X 41mm backplate for face fixing available with cut-outs to suite type of lock used. (Newman Tonks "Delta" 250/2421).