

# Building Product Information Sheet

Generic Model: SureClose ConcealFit Hydraulic

Hinge-Closer and Hinge

Type: Concealed hinge-closer and hinge

D&D Technologies®

Part of ASSA ABLOY

## 1. Unique identification code of the product-type:

<b>Brand</b>	D&D Technologies
<b>Model(s)</b>	SureClose ConcealFit Hydraulic Hinge-Closer and Hinge - Part Number / identifier listed below

<b>Part Number / identifier</b>	<b>Bar code</b>	<b>Description/Type</b>	<b>Production type</b>	<b>NZ Building Product class</b>
77108523	736494010989	ConcealFit Hinge-Closer and Hinge Kit	Batch or mass-produced products	Class 1
78108513	736494011009	ConcealFit Hinge	Batch or mass-produced products	Class 1
7801	736494011597	ConcealFit installation jig	Batch or mass-produced products	Class 1

This specification only covers the Part Number / identifier listed above – substitutions are not permitted.

## 2. Product description and its intended use(s)

SureClose ConcealFit Hydraulic Hinge-Closer and Hinge kit; and Hinge.

Key Features:

- Hydraulic Hinge-Closer and Hinge kit with a self-closing capacity of up to 100kg on door dimension 2,100mm H x 1,200mm W.
- BHMA A156.1 – 2016 Butts and Hinges: Grade 3 on a door weight of 80kg.
- 20-minute UL10C (2009) (R2015) and CAN/ULC S104 (2015) (R2020) fire rating (Intertek W/N 22217) – Part Numbers 77108523 and 7810513 must be used, creating three attachment points between door and frame.
- 4-way positional adjustments: Lateral, Vertical, Depth and Inclination – refer to table below for range.
- Self-close from 125°– 0°. Gate stop required to prevent hinge-closer from opening pass 125°.
- Adjustable backcheck from 60° to 125° (Hinge-Closer)
- Adjustable closing speed, latching speed and back check (Hinge-Closer).
- Dress covers included.
- Materials: Aluminium housing with 50-micron thick hard anodizing.
- Recommended and Minimum door and door jamb sections – refer to table below.

<b>Part Number / identifier</b>	<b>Description/Type</b>	<b>Minimum Door and Door Jamb Thickness</b>	<b>Minimum Door Jamb Depth</b>
77108523	Hinge-Closer and Hinge Kit	40mm	33mm
78108513	Hinge	40mm	33mm

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Adjustment	Unit	Range
Door Height (Vertical)	Hinge-Closer and Hinge	±2mm with 1.25mm steps
Lateral	Hinge-Closer and Hinge	±1.25mm
Depth and Inclination	Hinge-Closer and Hinge	Gap between post and door leaf is adjustable from 2mm – 6mm
Door Latching Speed	Hinge-Closer only	Between 12°–0°
Door Sweep Opening Angle	Hinge-Closer only	Steps at 60°, 80°, 100° and 125°
Door Sweep Closing Speed	Hinge-Closer only	125° to 0°

## Applications:

- Hydraulic Hinge-Closer and Hinge kit with a self-closing capacity of up to 100kg on door dimensions of 2,100mm H x 1,200mm W.
- Commercial doors (Intertek Report 103739835MID-002B) for the Hinge only (Part Number 77108513):
  - BHMA A156.1 – 2016 Butts and Hinges: Grade 3 on a door weight of 80kg.
- Fire doors (Intertek Spec ID 51957): Observe the following:
  - Door size limitation 2,100mm H x 1,200mm W
  - Part Numbers 77108523 and 7810513 must be used.
  - A commercial wooden door that is fire-rated per UL 10C or CAN/ULC S104 for 20-Minutes positive pressure with hose stream and contains a minimum 5" (127mm) wide LSL hinge stile is required. Applicable door construction includes:
    - i. 20-Minute with hose stream fire-rated Category 'B' stave-core door, or
    - ii. 20-Minute with hose stream fire-rated Category 'B' particleboard core door.
  - A 16 Ga (1.52mm thick) steel 3-sided hollow metal commercial door frame with hinge reinforcements to accommodate the hinge attachments is required.
  - Rigid intumescent strip material shall be applied around the door perimeter (top rail and vertical edges).
  - When installing the door closer, **BOSS Fireblock 136** single-component fire-rated sealant must be applied into the door mortise prep to completely fill voids between the prep and door closer body.
  - When installing the door hinges into the top or middle mortise pockets, **BOSS Fireblock 136** sealant must be applied into the door mortise prep to completely fill voids between the prep and door hinge body.
  - Hinge-closer may be installed in any position - top, middle, or bottom location.
  - The door closer and hinges location must be specified when ordering the door. Field prep of the door for the door closer and hinge pockets is not permitted.
- Disability Access: Association of Consultants in Access Australia Certification number DC-21-0216 for Hinge-Closer and Hinge Kit (Part Number 77108523):
  - AS1428.1-2009 Clause 13.5.2 (e) (Door controls – Design and performance) on door widths of 800mm, 850mm, 900mm, 950mm and 1000mm: For doors other than fire doors and smoke doors where a door closer is fitted, the force required at the door handle to operate the ConcealFit Hinge-Closer does not exceed the following:
    - i. To initially open the door: 20N

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- |   |     |
|---|-----|
| ii. To swing or slide the door:                 | 20N |
| iii. To hold the door open between 60° and 90°: | 20N |

### 3. Place of Manufacture:

Place of Manufacture

Aotearoa New Zealand

Overseas, see manufacturer section for details

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## 4. Legal and trading name of the manufacturer(s):

D&D Technologies Pty Ltd.

### Address for Service

<b>Street name and number</b>	Unit 6, 4-6 Aquatic Drive
<b>Suburb</b>	Frenchs Forest
<b>Region/state</b>	New South Wales
<b>Country</b>	Australia
<b>Post code</b>	2086
<b>Website</b>	<a href="https://www.ddtech.com/">https://www.ddtech.com/</a>
<b>Email</b>	<a href="https://au.ddtech.com/pages/contact-us">https://au.ddtech.com/pages/contact-us</a>
<b>Phone</b>	+61 2 9454 7888
<b>Business number</b>	ABN: 94 059 413 430

## 5. Legal and trading name of the importer (if applicable):

ASSA ABLOY New Zealand Ltd

### Address for Service

<b>Street name and number</b>	6 Armstrong Road
<b>Suburb</b>	Albany
<b>Region/state</b>	Auckland
<b>Country</b>	New Zealand
<b>Post code</b>	0632
<b>Website</b>	<a href="https://www.assaabloy.com/nz/en">https://www.assaabloy.com/nz/en</a>
<b>Email</b>	nzsales@assaabloy.com
<b>Phone</b>	+64 (0)9 448 9188
<b>Business number</b>	NZBN: 9429036762194

## 6. Relevant Building Code clauses:

<b>Standard</b>	<b>Clause(s)</b>
Commercial doors	• BHMA A156.1 – 2016 Butts and Hinges
Fire Test	• UL10C (2009) (R2015): Standard for Positive Pressure Fire

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	<p>Tests of Door Assemblies</p> <ul style="list-style-type: none"><li>• CAN/ULC S104 (2015) (R2020): Standard Method for Fire Tests of Door Assemblies</li></ul>
Disability Access	<ul style="list-style-type: none"><li>• AS1428.1-2009 Clause 13.5.2 (e) For doors other than fire doors and smoke doors where a door closer is fitted, the force required at the door handle to operate the door shall not exceed the following:<ul style="list-style-type: none"><li>i. To initially open the door: 20N</li><li>ii. To swing or slide the door: 20N</li><li>iii. To hold the door open between 60° and 90°: 20N</li></ul></li></ul>

## 7. Statement on how the building product is expected to contribute to compliance.

Commercial Doors: Intertek Report 103739835MID-002B for the Hinge (Part Number 7810513):

- BHMA A156.1 – 2016 Butts and Hinges: Grade 3 on a door weight of 80kg.

Fire Test: Intertek Spec ID 51957 for the combination of Hinge-Closer and Hinge Kit and Hinge (Part Numbers 77108523 and 7810513):

- UL10C (2009) (R2015): Standard for Positive Pressure Fire Tests of Door Assemblies – 20 minutes
- CAN/ULC S104 (2015) (R2020): Standard Method for Fire Tests of Door Assemblies – 20 minutes

Disability Access: Association of Consultants in Access Australia Certification number DC-21-0216 for Hinge-Closer and Hinge Kit (Part Number 77108523):

- AS1428.1-2009 Clause 13.5.2 (e) (Door controls – Design and performance) on door widths of 800mm, 850mm, 900mm, 950mm and 1000mm: For doors other than fire doors and smoke doors where a door closer is fitted, the force required at the door handle to operate the ConcealFit Hinge-Closer and Hinge Kit does not exceed the following:
  - iv. To initially open the door: 20N
  - v. To swing or slide the door: 20N
  - vi. To hold the door open between 60° and 90°: 20N

## 8. Limitations on the use of the building product:

Commercial doors Intertek Report 103739835MID-002B for the Hinge (Part Number 7810513):

- BHMA A156.1 – 2016 Butts and Hinges: Grade 3 on a door weight of 80kg.
- Fire door (Intertek Spec ID 51957) – 20-minute UL10C (2009) (R2015) and CAN/ULC S104 (2015) (R2020) fire rating, observe the following:
  - Door size limitation 2,100mm H x 1,200mm W.
  - Part Numbers 77108523 and 7810513 must be used, creating three attachment points between door and frame.
  - A commercial wooden door that is fire-rated per UL 10C or CAN/ULC S104 for 20-Minutes positive pressure with hose stream and contains a minimum 5" (127mm) wide LSL hinge stile is required. Applicable door construction includes:
    - 20-Minute with hose stream fire-rated Category 'B' stave-core door, or
    - 20-Minute with hose stream fire-rated Category 'B' particleboard core door.
  - A 16 Ga (1.52mm thick) steel 3-sided hollow metal commercial door frame with hinge reinforcements to accommodate the hinge attachments is required.
  - Rigid intumescent strip material shall be applied around the door perimeter (top rail and vertical edges).
  - When installing the door closer, **BOSS Fireblock 136** single-component fire-rated sealant must be applied into the door mortise prep to completely fill voids between the prep and door closer body.
  - When installing the door hinges into the top or middle mortise pockets, **BOSS Fireblock 136** sealant must be applied into the door mortise prep to completely fill voids between the prep and door hinge body.
  - Hinge-closer may be installed in any position - top, middle, or bottom location.
  - The door closer and hinges location must be specified when ordering the door. Field prep of the door for the door closer and hinge pockets is not permitted.
- Disability Access: Association of Consultants in Access Australia Certification number DC-21-0216 for Hinge-Closer and Hinge Kit (Part Number 77108523):

- AS1428.1-2009 Clause 13.5.2 (e) (Door controls – Design and performance) on door widths of 800mm, 850mm, 900mm, 950mm and 1000mm: For doors other than fire doors and smoke doors where a door closer is fitted, the force required at the door handle to operate the ConcealFit Hinge-Closer does not exceed the following:
  - i. To initially open the door: 20N
  - ii. To swing or slide the door: 20N
  - iii. To hold the door open between 60° and 90°: 20N

## 9. Design requirements that would support the appropriate use of the building product.

Refer to Sections 8 and 10.

## 10. Installation requirements

- Refer to supplied fitting instructions.
- ConcealFit installation jig (7801) is recommended for installation – available separately.
- Commercial doors (Intertek Report 103739835MID-002B for the Hinge (Part Number 7810513)):
  - BHMA A156.1 – 2016 Butts and Hinges: Grade 3 on a door weight of 80kg.
- Fire door (Intertek Spec ID 51957) – 20-minute UL10C (2009) (R2015) and CAN/ULC S104 (2015) (R2020) fire rating, observe the following:
  - Door size limitation 2,100mm H x 1,200mm W.
  - Part Numbers 77108523 and 7810513 must be used, creating three attachment points between door and frame.
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- Disability Access: Association of Consultants in Access Australia Certification number DC-21-0216 for Hinge-Closer and Hinge Kit (Part Number 77108523):
  - AS1428.1-2009 Clause 13.5.2 (e) (Door controls – Design and performance) on door widths of 800mm, 850mm, 900mm, 950mm and 1000mm: For doors other than fire doors and smoke

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doors where a door closer is fitted, the force required at the door handle to operate the ConcealFit Hinge-Closer does not exceed the following:	
i. To initially open the door:	20N
ii. To swing or slide the door:	20N
iii. To hold the door open between 60° and 90°:	20N

## 11. Maintenance requirements

- Refer to supplied fitting instructions.
- Observe the following:
  - 4-way positional adjustments: Lateral, Vertical, Depth and Inclination – refer to table above for range.
  - Self-close from 125°– 0°. Gate stop required to prevent hinge-closer from opening past 125°.
  - Adjustable backcheck from 60° to 125° (Hinge-Closer)
  - Adjustable closing speed, latching speed and back check (Hinge-Closer).
- Door alignment and maintenance is essential to maintain self-closing, latching alignment and performance.

## 12. Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?

Yes  No

If yes, description of the warning or ban under section 26

N/A

## 13. Date

Date of document completion (day/month/year)

1	1	1	2	2	0	2	3
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