

Composite Door

Thermal Performance



Issue : 1
Date : 21/08/10
Ref : TP-0002

PRODUCT

PROFILE 22 COMPOSITE DOOR

APPROVED DOCUMENT L1B BUILDING REGULATIONS (ENGLAND & WALES)

SCOTTISH BUILDING STANDARDS - SECTION 6 - TECHNICAL HANDBOOK

INTRODUCTION

THIS DOCUMENT GIVES GUIDANCE ON THE THERMAL PERFORMANCE OF THE PROFILE 22 COMPOSITE DOOR

OPTIONS INCLUDE:

PROFILE 22 FRAMING SYSTEM INCORPORATING LOW THRESHOLD.
NAN-YA CASSETTE SYSTEM.

SEE PROFILE 22 COMPOSITE DOOR TECHNICAL MANUAL AND CROSS SECTION DETAILS ATTACHED.

THE U VALUE CALCULATIONS CARRIED OUT ON THIS PRODUCT ARE IN ACCORDANCE WITH BS EN ISO 10077-1:2006 THERMAL PERFORMANCE OF WINDOWS, DOORS & SHUTTERS AS PER APPROVED DOCUMENT L1B.

RESULTS HAVE BEEN PROVIDED BY COMPUTER SIMULATION USING LBNL THERM 5.2 SOFTWARE AND VALIDATED AGAINST PROOFS IN ANNEX D (D1-D10) OF BS EN ISO 10077-2:2003

RESULTS ARE IN ACCORDANCE WITH METHODS CONTAINED IN BS EN ISO 10077-1:2006

IN ORDER TO COMPLY WITH APPROVED DOCUMENT L1B 2010 & SCOTTISH BUILDING STANDARDS TECHNICAL HANDBOOK - SECTION 6.

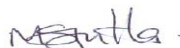
THIS PRODUCT MUST BE FITTED WITH GLASS UNIT SPECIFICATIONS, WHICH MEET OR EXCEED THE SPECIFICATIONS CONTAINED IN THIS DOCUMENT.

GLASS UNITS MUST BE MANUFACTURED IN ACCORDANCE IN BS EN 1279.

Authorisation

Prepared By:

Signature



Name

Mani Jutla (Technical Engineer - Profile 22 Systems)
BFRC Certified Simulator no: 064

FOR COMPLIANCE WITH APPROVED DOCUMENT L1B (ENGLAND & WALES)
 ALL DOORS MUST MEET A WHOLE DOOR U VALUE OF 1.8 W/m².K
 THE THERMAL PERFORMANCE OF THE DOOR (U_d) IN ACCORDANCE WITH
 BS EN ISO 10077-1:2006 IS:

U VALUE
1.8 W/m².K

TO MEET A WHOLE DOOR U VALUE OF 1.8 W/m².K THE
 CENTRE PANE U VALUE OF GLAZING IN ACCORDANCE WITH
 BS EN ISO 673:1998 IS:

GLASS UNIT (MIN. SPEC.)	CENTRE PANE U VALUE
DOUBLE GLAZED IGU (24mm) HARD COAT LOW E GLASS (normal emissivity 0.15) ALUMINIUM SPACER BAR AIR FILLED CAVITY	1.7W/m².K

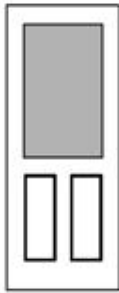
FOR COMPLIANCE WITH SCOTTISH BUILDING STANDARDS - SECTION 6 - TECHNICAL HANDBOOK
 ALL DOORS MUST MEET A WHOLE DOOR U VALUE OF 1.6 W/m².K (AREA WEIGHTED)
 THE THERMAL PERFORMANCE OF THE DOOR (U_d) IN ACCORDANCE WITH
 BS EN ISO 10077-1:2006 IS:

U VALUE
1.6 W/m².K (AREA WEIGHTED)

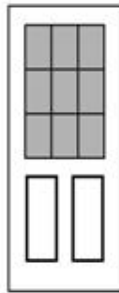
TO MEET A WHOLE DOOR U VALUE OF 1.6 W/m².K THE
 CENTRE PANE U VALUE OF GLAZING IN ACCORDANCE WITH
 BS EN ISO 673:1998 IS:

GLASS UNIT (MIN. SPEC.)	CENTRE PANE U VALUE
DOUBLE GLAZED IGU (24mm) HARD COAT LOW E GLASS (normal emissivity 0.15) ALUMINIUM SPACER BAR 90% ARGON, 10% AIR FILLED CAVITY	1.5W/m².K

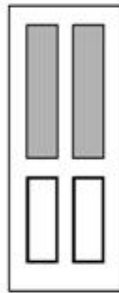
COMPOSITE DOOR STYLES COVERED



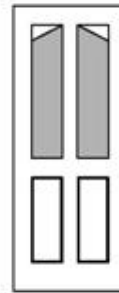
CASSETTE	9Q 111
APERTURE	585mm x 940mm
GLASS	558mm x 912mm



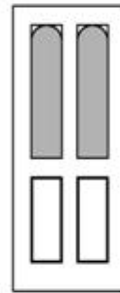
CASSETTE	7C 124
APERTURE	585mm x 940mm
GLASS	558mm x 912mm



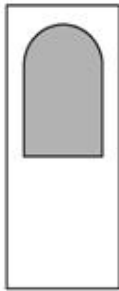
CASSETTE	9N 107
APERTURE	229mm x 940mm
GLASS	203mm x 912mm



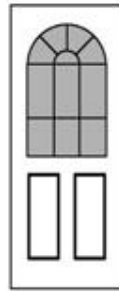
CASSETTE	9E/F 128
APERTURE	229mm x 940mm
GLASS	203mm x 912mm



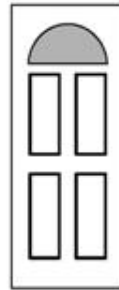
CASSETTE	7D 109
APERTURE	229mm x 940mm
GLASS	203mm x 912mm



CASSETTE	7A 110
APERTURE	585mm x 940mm
GLASS	558mm x 912mm



CASSETTE	7B 116
APERTURE	585mm x 940mm
GLASS	558mm x 912mm



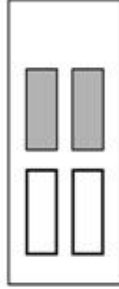
CASSETTE	9W 117
APERTURE	R292mm x 279mm
GLASS	R279mm x 254mm



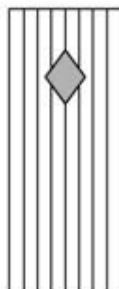
CASSETTE	9V 118
APERTURE	R292mm x 279mm
GLASS	R279mm x 254mm



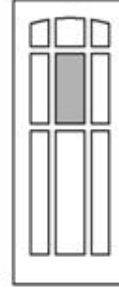
CASSETTE	9S 101
APERTURE	229mm x 181mm
GLASS	202mm x 154mm



CASSETTE	2F 104
APERTURE	236mm x 579mm
GLASS	207mm x 550mm



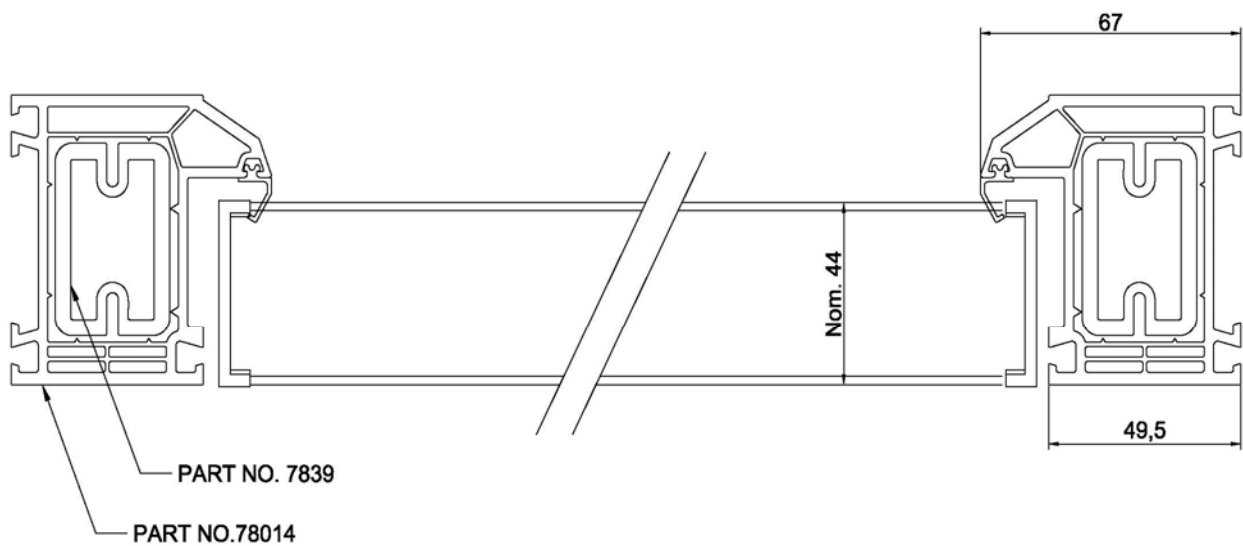
CASSETTE	9Y 140
APERTURE	381mm x 295mm
GLASS	347mm x 266mm



CASSETTE	7K 103
APERTURE	216mm x 496mm
GLASS	190mm x 469mm

Technical Specification

HORIZONTAL SECTION



VERTICAL SECTION

