STÅLPROFILSYSTEM SP 35000

STAMIESS. Profile system without insulation, insulated with a broken thermal bridge or fire insulated steel profiles for glazed doors, sliding doors, partition walls and window sections





COMPLETE PARTITIONS WITH GLASS, INCLUDING ASSEMBLY!

1.3

6

CONTENTS SP 35000 SP 55000 SP 75000

Module locks Calculated U-value Finger trap proof gasket Burglar proof classes 1 – 3 Rounded windows and arches Bullet proof classes C1 - C5 SF Fire resistant classes E 30/E 60/EI 30 Sliding door in class E 30













SYSTEM SUMMARY STÅLPROFILSYSTEM

Item	SP 6000	SP 60000	SP 35000	SP 55000	SP 75000	SP 56500	SP 58000	SP 76500	SP 79000	SP 711000
Stainless	SP 96000		SP 95000	SP 955000	SP 975000	SP 956500	SP 958000	SP 976500	SP 979000	
Height	50/75/120	50/75/120	50	50	50	65	80	65	90	110
Thermal bridge	•	•	-	10	-	25	10	-	-	-
Fire resistance	-	-	-	-	10	-	-	25	50	2 x 25
Wall sections	•	•	E 30/E 60	•	E 30/E 60	•	•	EI 30/E 60	E 60/EI 60	EI 90
Door without midr	ail -	-	EI 30/EI 60	•	EI 30/EI 60	•	• E	I 30/A 60/E 60	E 60/EI 60	-
Door with midrail	-	-	A 30	•	A 30	•	• E	I 30/A 60/E 60	E 60/EI 60	-
Window	-	-	E 30/E 60	•	E 30/E 60	•	•	EI 30/E 60	E 60/EI 60	-
Sliding door	-	- E	30/EI 30/A 3	ю • Е	30/EI 30/A 3	• 0	•	EI 30	-	-
Arches	•	-	•	•	•	•	• E	I 30/A 60/E 60	E 60/EI 60	-
Rounded windows	-	-	•	•	•	•	•	EI 30	E 60/EI 60	-
Finger trap gasket	-	-	•	•	•	•	-	•	-	-
Module locks	-	-	•	•	•	•	•	•	•	-
Burglary resistant	-	-	CI 1-3	-	-	-	CI 1-3	-	-	-
Bullet proof	-	-	C1-C5 SF	C1-C5 SF	C1-C5 SF	C1-C5 SF	C1-C5 SF	C1-C5 SF	C1-C5 SF	-
U-value	•	•	-	-	-	•	-	•	•	-
Noise reduction	•	•	-	•	•	•	-	•	•	-

Note: The values for fire resistant and safety classes above are the maximums. Some constructions have lower fire resistant and safety classes. Fire resistant classes above comply with SITAC type approval certificates. Please refer to each systems catalogue for further details.







STÅLPROFIL ONLINE AND ON CD



You can now get the latest updates and news from Stålprofil by visiting our web site at www.stalprofil.se The site contains profiles and drawings from Stålprofil in downloadable file formats. Our latest catalogue is also available for download as a PDF file. All of the drawings are in DWG format compatible with AutoCAD and DXF for other technical drawing software. To simplify the construction process our drawings have been created in layers and have insertion points. To further facilitate construction we have also created a library of symbols that are compatible with AutoCAD and can be easily used with the software. There is also a CD available containing the drawings and profile systems. You can request the catalogue and receive the accompanying CD by

e-mailing us at: cd@stalprofil.se or fax to +46 522-120 46.





STÅLPROFIL AB · Vårgårda · Sweden · +46 322 - 62 50 60

STÅLPROFILSYSTEM SP 35000

- · Entrance sections
- Glazed intersecting walls
- Interior doors without side or ceiling lighting
- Burglary resistant door sections in classes 1, 2 and 3
- Shooting tests performed by SP, The Swedish Testing and Research Institute
- Glazed door, window and wall sections in fire resistant classes E 30/E 60
- Glazed sliding door sections with side or ceiling lighting in fire resistant class E 30
- Glazed door sections without midrail in classes EI 60
- Glazed door sections with midrail in classes EI 30/A 30
- Finger trap proof gasket in fire resistant classes E 30/E 60/EI 30/EI 60
- Arches in classes E 30/E 60/EI 30/A 30
- Rounded windows in classes E 30/E 60
- Adapted to BBR99



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STÅLPROFIL AB FIRE TESTING AND TYPE APPROVAL CERTIFICATES

FIRE TESTING - DOOR PARTITION 60 MIN



Test time 2 min, oven temperature approx. 300°C



Test time 10 min, oven temperature approx. 700°C – deflection approximately 50mm





Test time 40 min, oven temperature approx. 900 °C

Test time 60 min - final control of the spread of fumes

STÅLPROFILS SLIDING DOOR TYPE APPROVED IN FIRE RESISTANCE CLASS E 30/EI 30/A30



Sliding door fire test - unexposed side prior to testing



Sliding door fire test - exposed side after final testing 60 min

... AND A REAL-LIFE FIRE

Approximately 5.40 pm on October 27th 1999 a worker at the Domus department store in Karlstad discovered a fire in the clothing department. The fire was caused by an old fashioned steam generator, used to steampress clothes in the store. The generator had not been turned off after previous usage. This is how the Swedish Fire Departments own published report, "The fire at Domus in Karlstad Oct. 1999 – Follow up of fire safety and departmental actions taken to put out fire," starts. The report states that there was a fire resistant window section by the stairwell. The window section fulfilled its purpose and prevented further spread of the fire to the upper floors of the department store. The type approved window section was a system manufactured by Stalprofil. Read more about the Domus fire in Stalprofil system SP 76500 system catalogue.



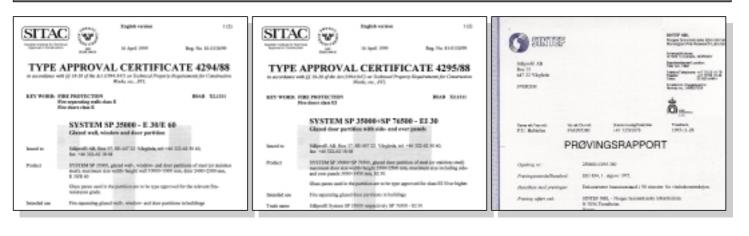
FIRE TESTING AND TYPE APPROVAL CERTIFICATES

STÅLPROFIL AB

CHOOSE SAFETY!

ALL OF OUR FIRE RESISTANT SYSTEMS CARRY WITH THEM A TYPE APPROVAL CERTIFICATE FOR CLASSES E30 UP TO AND INCLUDING E190 ACCEPT NO DISPENSATIONS FROM CURRENT FIRE SAFETY REGULATIONS!

FOR YOUR SAFETY ALL OF OUR MANUFACTURERS UNDERGO REGULAR CONTROL INSPECTIONS CARRIED OUT THE SWEDISH TESTING AND RESEARCH INSTITUTE







Fire test of door with finger trap proof gasket 60 min





	TYYPPIHYVÄKSYNTÄPÄÄTÖS		Nemko Certification
e e	Dno: 43/6221/2001 1 (3) Annettu: 20.6.2001	PÄÄSTEAMET NATIONAL RESCUE BOARD	Vår dato Vår referanse 2000-08-23 801.45-Pyrotec
	Voimassa: 31.3.2006	VASTAVUSSERTIFIKAAT	Vedlegg nr. 4 til sertifiseringslisens nr. 462 med utstedelsesdato 1992-03-27 for <u>XK</u> -merking av branntøknisk klassifiserte vinduer (Utgave 2)
	Ympäristöministeriö on maankäyttö- ja rakennuslain (132/1999) 148 §:n nojella myönlänyt - seuraavan tyyppihyväksynnän.	NI	Produktnavn: Futura brannvindu A 60 Produktnavn: Brannteknisk klassifisert. åoningsbart Vindu
TUOTE	Lasiseinä, -ikkuna ja -ovirakenne, karmit ovat terästä tai ruostumatonta	Taotleja: T-TAMMER OÜ, Mustamäe tee 22, 10621 Tallinn, EESTI.	Produktype. Brainteknisk kassinisert, apringsbart vindu
TUOTE	Lastseina, -akkuma ja -overakenne, karmit ovat teirasta tai ruostumakoma terästä Eristeenä on käytetty Promatek L:sä tai Promatek H:ta tai kipsiä. Svisteeni 89 2500 – 5 20 / E 60.	Toode: Süsteem SP 35000 klaasitud seina-, akna- ja uksetarindid.	Klassifisering: A 60
	Valmistettu piirustusten: 3 - 4116 A (97-01-03); 3 - 4118 A (97-01-03); 4 - 2474 (98-12-02); 4 - 2476 (99-02-11); 4 - 2477 (99-02-10); 4 - 2478	Tootja: T-TAMMER OÜ, EESTI.	Beskrivelse: Vindu bestående av stålprofilsystemet SP 79000 isolert med 50 mm fibersilikatplater type Promatek H, legning nr. 4-1172-A av 1989-04-19. - Mask lysmål b x b = 1455 x 1380 mm.
	(96)-02:02); 4 - 2479 (96):02:16); 4 - 2463 (96):12:02); 4 - 2480 (96):02:06); 4 - 249 (16):02:11); 4 - 2485 (56):02:11); 4 - 2486 (56):02:02:31, 4 - 2208 (96):03:01); 4 - 2355 - B (07:02:12); 4 - 2313 (36):05:02:21); 4 - 2308 - B (96):04:06; 13 - 2319 - C (96):04:06; 14 - 2345 - A (96):04:07; 14 - 2326 - B (96):11:03); 4 - 2115:B (16):04:06) ja Sitecin tyyppityväksymän 4294(88) (1996):04:100; mukaam.	Normdokumendid: EPN 10.1 "Eesti Projekteerimisnormid. Ehitiste tuleohutus. Üldeeskin". EPN 10.6 "Eesti Projekteerimisnormid. Ehitiste tuleohutus. Tuletõtkeuksed".	Innaati base-type: 21 mm Pyrotos (96-10 GB (III), alternativic: 27 mm Pyrotos (96-20 GB (III)) 35 mm Pyrotos (96-25 GB (III)) 41 mm Pyrotos (96-25 GB (III)) Produsers I-banhold II bancar 4 dr012 Ba v 1994-01-27 og tegning
HAKIJA	Metallituote Valkkio Oy, Jalasjärvi		3-4015 av 1993-12-03 for innfestingen av alternative glasstyper. Både på karm og ramme skal det for innvendig bruk monteres Interdens F 10 x 2 mm og for utvendig bruk Exterdens F 10 x 2 mm, tegning
VALMISTAJA	Karmit valmistaa Stålprofil AB, Vårgårda. Ruotsi.	Klass: Süsteem SP 35000 vastab tulepüsivusklassi E30 / E60, A30 /A60	1-4012 B av 1994-01-27. - For montering i A 60 SP 79000 stälorofi/alass vegasvstem, alt, fast mur- eller
	Ovet valmistaa hakija.	nõuetele kui kasutatakse tehnospetsifikaadis äratoodud profiile, ning	betong-vegg.
HYVÄKSYNNÄN LAAJUUS	Talla hyväksynnällä todetaan palo-ovirakenteiden täyttävän Suomen rakentamismääräyskokoelman vastimustason palonkestävyyden osalta: Patoluokka E 30 tai E 60.	kui on tagatud tehnoloogiiise tootmistsükli vastavus esitatud tingimustele ja selle pidev kontroll.	Typepreving: SINTEF NBL rapport nr 250000.20183 329 av 1984-02-04 og vurdering nr. 250060194.025 av 1994-02-11.

STÅLPROFIL AB FIRE TESTING AND TYPE APPROVAL CERTIFICATES

FIRE PROTECTION

STÅLPROFILSYSTEM SP 35000 and SP 75000 are approved by the Swedish Building Standards AB, SITAC, for glazed wall, window and door sections in fire resistant class E 30/E 60, sliding doors with side and ceiling lights in fire resistant class E 30 and glazed door sections with midrail, ceiling and sidelights in SP 76500 in class El 30/ A 30. Please refer to the catalogue STÅLPROFILSYSTEM SP 76500 for further details.

Glazed doors, windows and wall sections E 30/E 60 Type approval certificate 4294/88

Glazed sliding doors with side and ceiling lights E 30 Type approval certificate 1653/96

Glazed door sections without midrail El 60 Type approval certificate 1132/93

Glazed door sections with midrail El 30 Type approval certificate 4295/88

Glazed sliding door sections with side and ceiling lights EI 30 Type approval certificate 0297/97 (together with SP 76500)

It is important when glazing fire resistant glass that the accompanying assembly instructions are adhered to. Manufacturing control and inspection of fire resistant material must be carried out according to SITACs recommendations. The Swedish Testing and Research Institute carry out regular inspections of all of our manufacturers. Details of approved manufacturers can be requested from Stålprofil.





CHOOSE SAFETY!

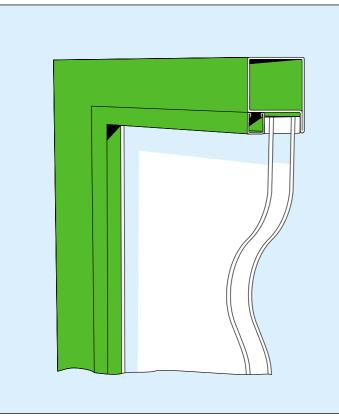
ALL OF OUR FIRE RESISTANT SYSTEMS CARRY WITH THEM A TYPE APPROVAL CERTIFICATE FOR CLASSES E30 UP TO AND INCLUDING EI90 ACCEPT NO DISPENSATIONS FROM **CURRENT FIRE SAFETY REGULATIONS!**

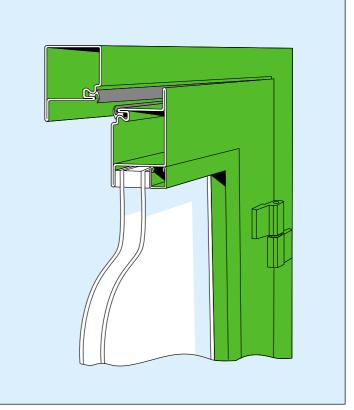




PROFILE SYSTEM SP 35000

STÅLPROFIL AB





STÅLPROFILSYSTEM SP 35000 – SP 55000 – SP 75000

Glazed doors, windows and wall sections fire resistant classes E 30/E60 Type approval certificate 4294/88 Glazed sliding doors with side and ceiling lights fire resistant class E 30 Type approval certificate 1653/96 Glazed door sections without midrail fire resistant class EI 60 Type approval certificate 1132/93 Glazed door sections with midrail fire resistant class EI 30 Type approval certificate 4295/88 Glazed sliding doors with side and ceiling lights fire resistant class EI 30/A 30¹ Type approval certificate 0297/97 "together with SP 76500

The profiles that sonprise SP 35000 are non-insulated steel profiles. SP 55000 steel profile system has a breached thermal bridge, and SP 75000 system comprises of fire insluated steel profiles. The profile systems are designed for door, sliding door, wall and window sections in offices, places of business, blocks of flats, schools, hotels, sports arenas, hospitals and service homes

The systems are modern and provide maximum flexibility, safety and stability. They offer a variety of choices for interior design and are type approved. Each system has finger trap proof rear edging, rounded windows and arches. The systems are available in wide profiles for module locks.

The systems innovative design with tracks for rubber sealing creates smooth interior and exterior surfaces on doors and intersecting wall partitions complying with architectural requirements.

The increased stability, resistance to fire and other external forces that steel offers compared to other materials is making it the material of choice. Steel has also unlimited choices with regard to colour and is environment friendly. The advantadeous price combined with its other advantages reduces the total cost of ownership drastically compared to other materials.

Bulletproof, burglary and fire resistance

The systems are available in bulletproof quality complying with the tests performed by SP The Swedish Testing and Research Institute. Burglary resistance quality classes 1, 2 and 3.

Stålprofil systems SP 35000 and SP 75000 are type approved by SITAC, The Swedish Building Standards organization in several fire resistant classes. Door and wall sections function as fire barriers in corridors, hallways and stairwells. Stålprofilsystem SP 35000 and SP 75000 all offer varied light and pleasant interior environments without compromising current fire safety regulations.

Black, stainless or sendzimir zinc galvanised steel

SP 35000 is available in untreated steel quality SS 1312 allowing maximum flexibility for choice of surface. The system is also available in stainless steel quality 316L, please refer to separate catalogue STÅLPROFILSYSTEM SP 90000 for further details. The stainless steel profile is delivered brushed or untreated. The third quality available is sendzimir zinc galvanised. Sendzimir zinc galvanisation is a form of hot dipped galvanisation. After the treatment the interior and exterior zinc surfaces are 20μ m equating to 275g/m². The pre-treatment in combination with the subsequent laquering eliminate the risk of corrosion. Our recommendations are sandblasting, spray galvanising, primer, wash or powder coating.

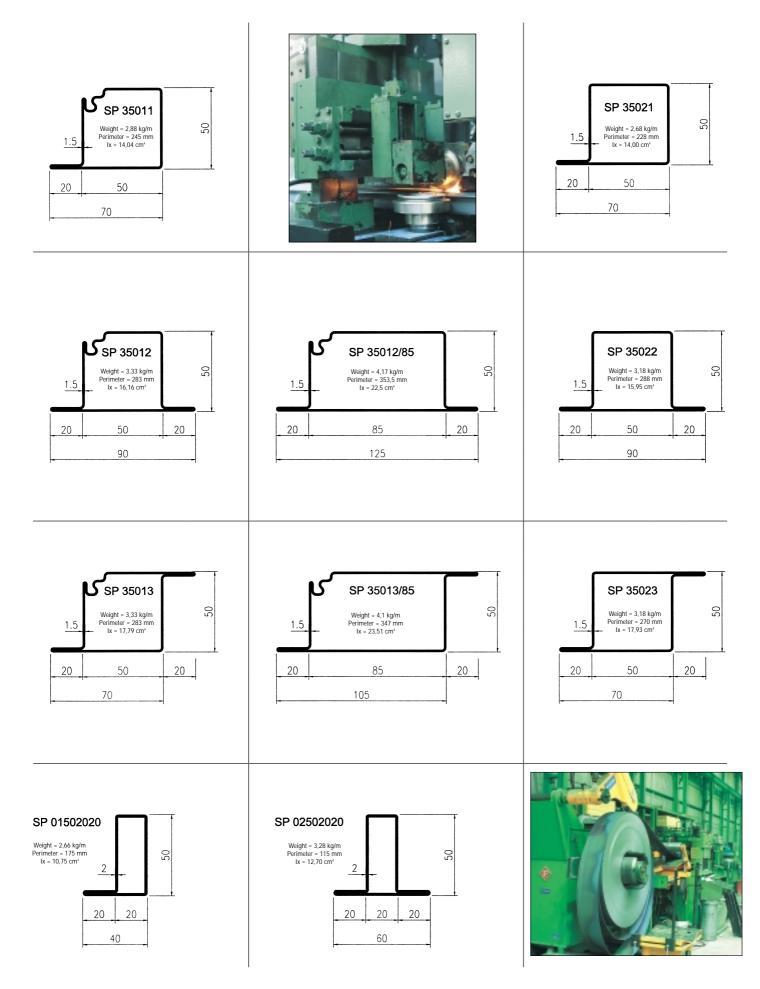
A high quality cost effective solution

The systems innovative design lend themselves to simple assembly and reduced construction time compared to conventional systems, implying higher and more consistant quality and reduced manufacturing costs.

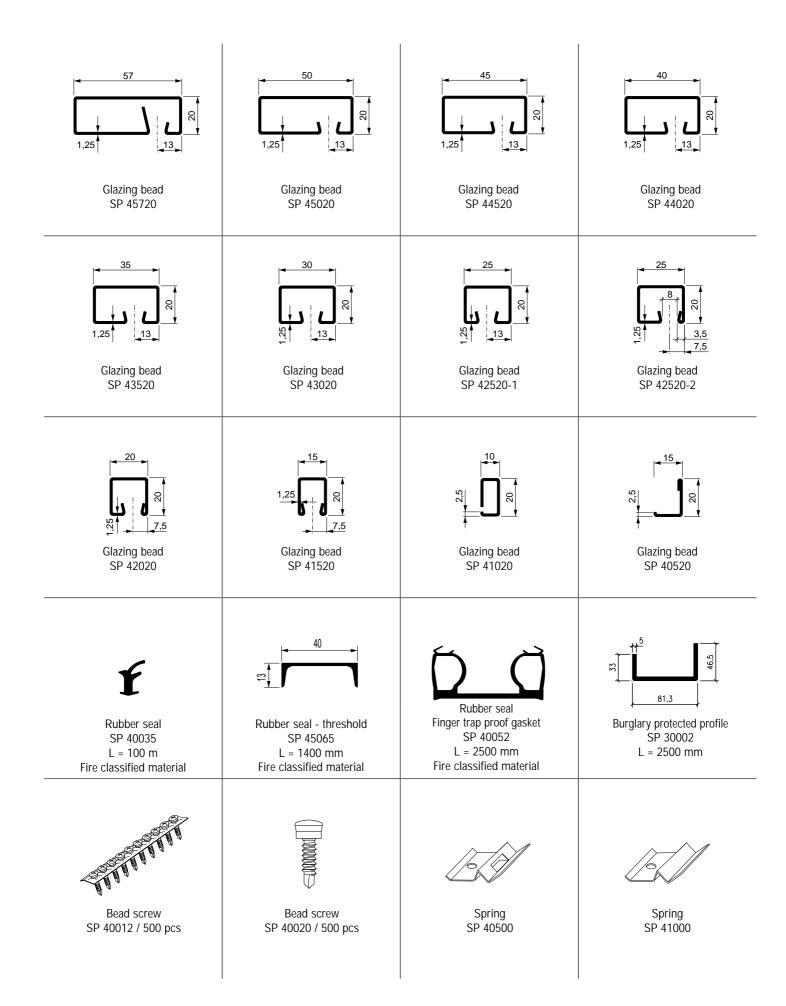
The standard glazing beads for each system are pre-treated with sendzimir zinc. The beads are also available in stainless steel. Laquered profiles with stainless steel glazing beads offer an exiting architectural combination. To maximise effectivity, simplify manufacture and reduce costs, the glazing beads are compatible in every system.

To further minimise manufacturing costs and wastage each profile is delivered from our warehouse in 6.6 metre lengths and glazing beads in 6.0 metre lengths. Manufacture and assembly is carried out by certified professionals, who undergo frequent controls and inspections by The Swedish Testing and Research Institute.

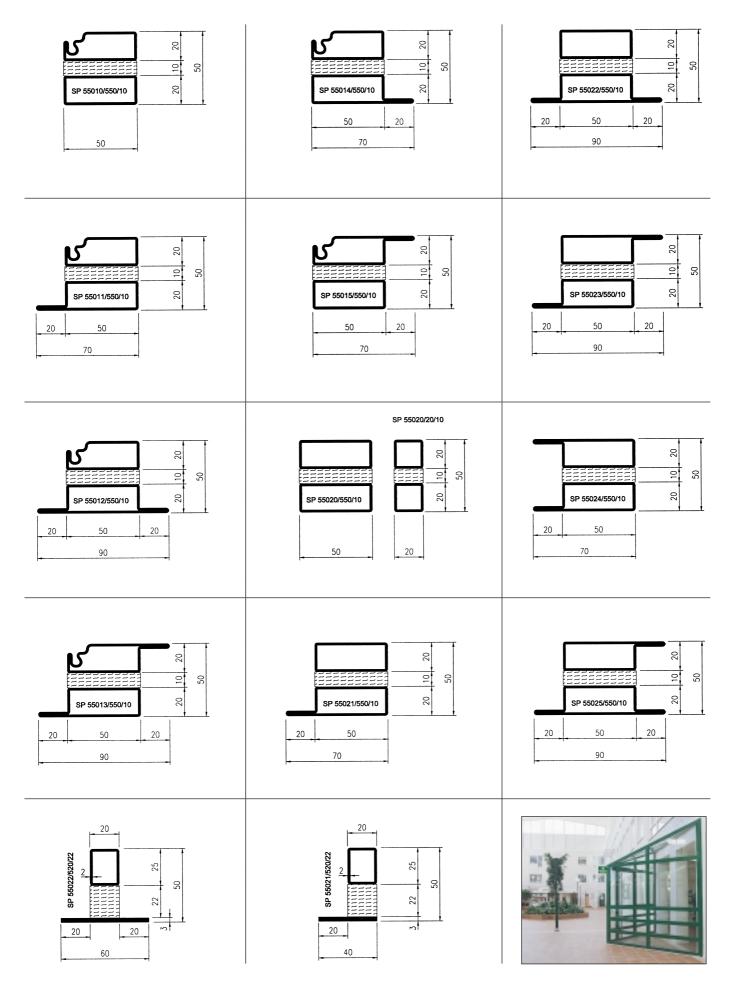
PROFILE SYSTEM SP 35000



GLAZING BEADS AND ACCESORIES

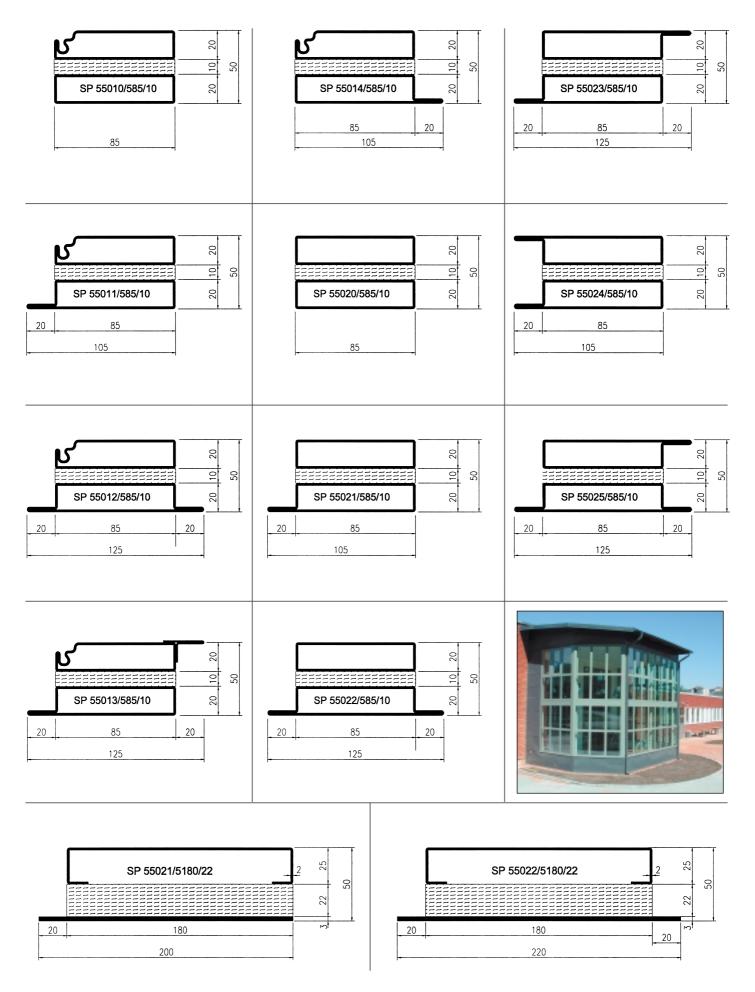


PROFILE SYSTEM SP 55000

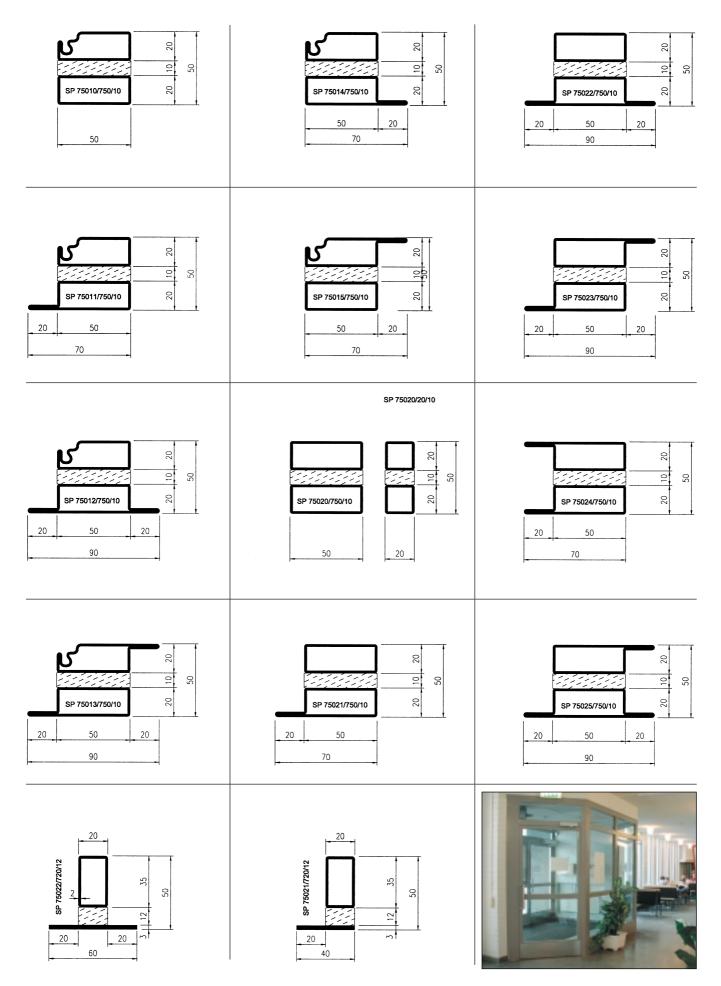


PROFILE SYSTEM SP 55000

STÅLPROFIL AB

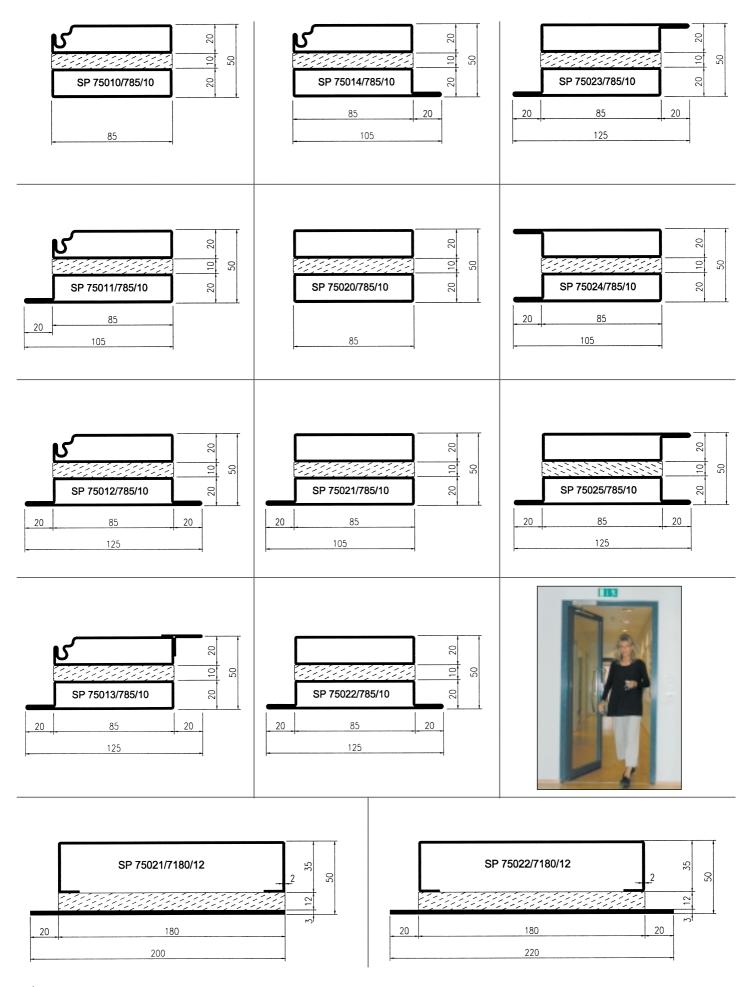


PROFILE SYSTEM SP 75000



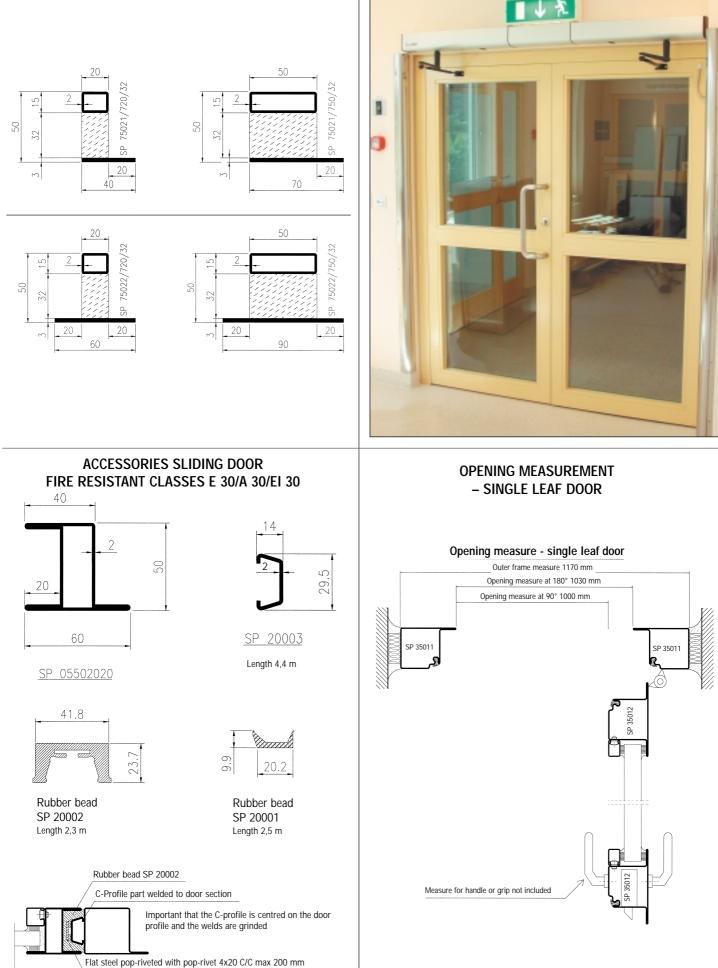
PROFILE SYSTEM SP 75000

STÅLPROFIL AB



PROFILE SYSTEM SP 35000 & 75000

MIDRAIL FOR DOORS IN FIRE RESISTANT CLASS A 30



FINGER TRAP PROOF GASKET

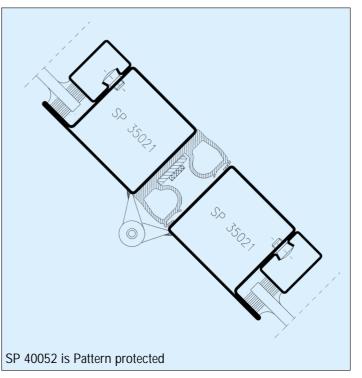
THE FINGER TRAP PROOF GASKET IS AVAILABLE FOR INSULATED AND NON-INSULATED PROFILES IN FIRE RESISTANT CLASSES UP TO AND INCLUDING E 60/EI 60

AVOID PINCH INJURIES!

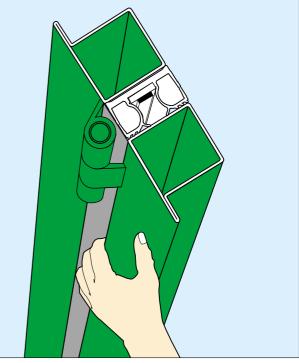
MAKE SURE YOUR DOOR SECTIONS CONTAINS THE DESIGN PROTECTED FINGER TRAP PROOF GASKET FROM STÅLPROFIL



STÅLPROFIL AB · Vårgårda · Sweden · +46 322 – 62 50 60

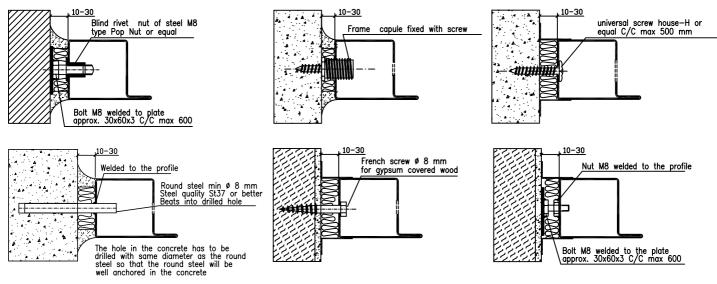






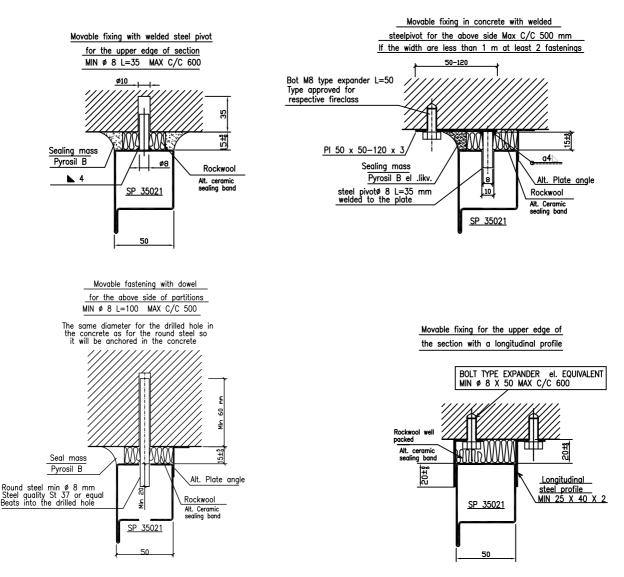
SIDE-FASTENINGS FIRE RESISTANCE SECTIONS

- Principal suggestion for mounting the section side in fire resistant classes E 30/E 60/A 30/EI 30/EI 60
- Maximum fixing centers of 600 mm
- · Sheet metal and fire resistant sealing can be varied as required



FASTENINGS FIRE RESISTANCE SECTIONS AT THE UPPER EDGE

- · The upper edge of the section should always be mounted with moveable fixation
- · Detailed explainations are supplied with each profiles fire resistant class type approval certificate



PROFILE SYSTEM SP 35000

STÅLPROFIL AB

SOME ADVICE FOR YOUR FIRE RESISTANT SECTIONS PROJECT

- Always ask for a type approval certificate with accompanying documents so that the sections can be fixed and mounted according to the recommendations in the certificate
- Make sure you understand exactly what the certificate allows – We supply type approval certificates from E30–EI90
- Note the maximum measurements for each specific system. The measurements can vary in different fire resistant classes
 We have door sections in classes E 30/EI 30 WxH 2500 x 2645 mm fixed sections max. height 3450 mm
- Note the locking functions for module or small profile locks electronic locking bolt mechanism, automatic door opening and closing mechanisms. What has been tested and approved?
 - Always carry out a control of functions and combinations
- Is your choice of glass approved for usage with the system and what is the maximum allowed size?
 - Never exceed the maximum measurements
- Sliding doors of type approved design
 - May not be used in emergency exit passageways
 - Automatic functions according to Type approval certificates

An excerpt from Stålprofils type approved certificate (general directions and for all profile systems)

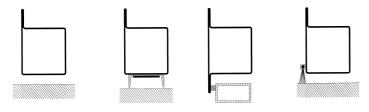
SPACE BETWEEN THE DOOR AND FLOOR

Doors can be mounted without a threshold leaving a space between the lower edge and the floor of not more than 10 mm. In these cases doors can be supplied with any kind of dragleaf, automatic threshold. This applies also to Findin Total types. Doors facing stairwells however may not have a space between the lower edge and floor.

The doorframe and panel can be furnished with sheet metal covering up to 0.5m providing the covering is attached so that it will not easily loosen should a fire break out.

Doors in classes El 30 and E 30 can be mounted with a threshold, dragleaf SP 45065 or automatic threshold in combustible or noncombustible material, plastic, rubber etc. providing that complete closure is achieved. The space between the lower edge and floor for doors without threshold may not exceed 18 mm without official testing results proving otherwise.

Doors in classes El 60 and E 60 may have up to a 10 mm maximum space between the lower edge and floor combined with dragleaf SP 45065 providing full closure is achieved.



Alternative design of space between door and floor: 1) None 2) Dragleaf SP 45065 3) Threshold 4) Dragleaf APPLICABLE POLICYS WHEN DOORS ETC IN CLASS A 30 ARE USED AS AN ALTERNATIVE TO DOORS ETC IN FIRE RESISTANT CLASS EI 30 Excerpt from BBR BFS 1993:57 with changes including BFS 1998:38

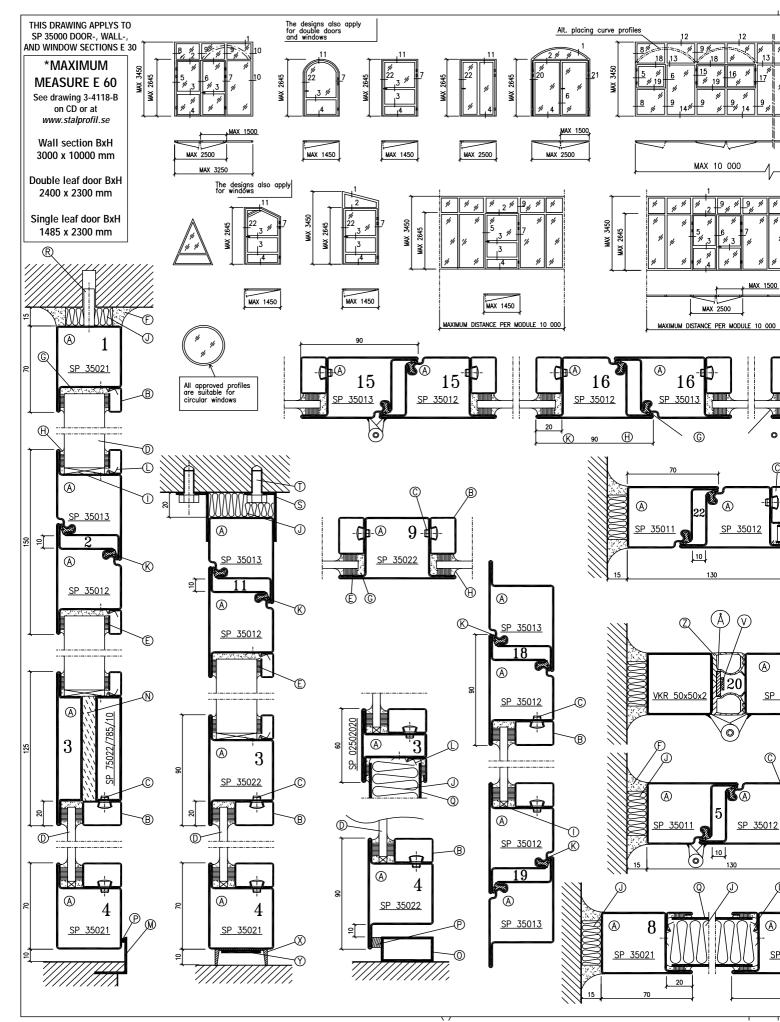
FIRE RESISTANT CLASSIFICATION FOR DOORS

Doors and doorlike objects in combustible material that comply with the insulation and integrity requirements in group 2 (earlier class A) according to Boverkets general directions: *The guidelines for type approved fire resistance* (1993:2) or comparitive earlier guidelines can be used as alternatives to El classified doors etc in the following situations:

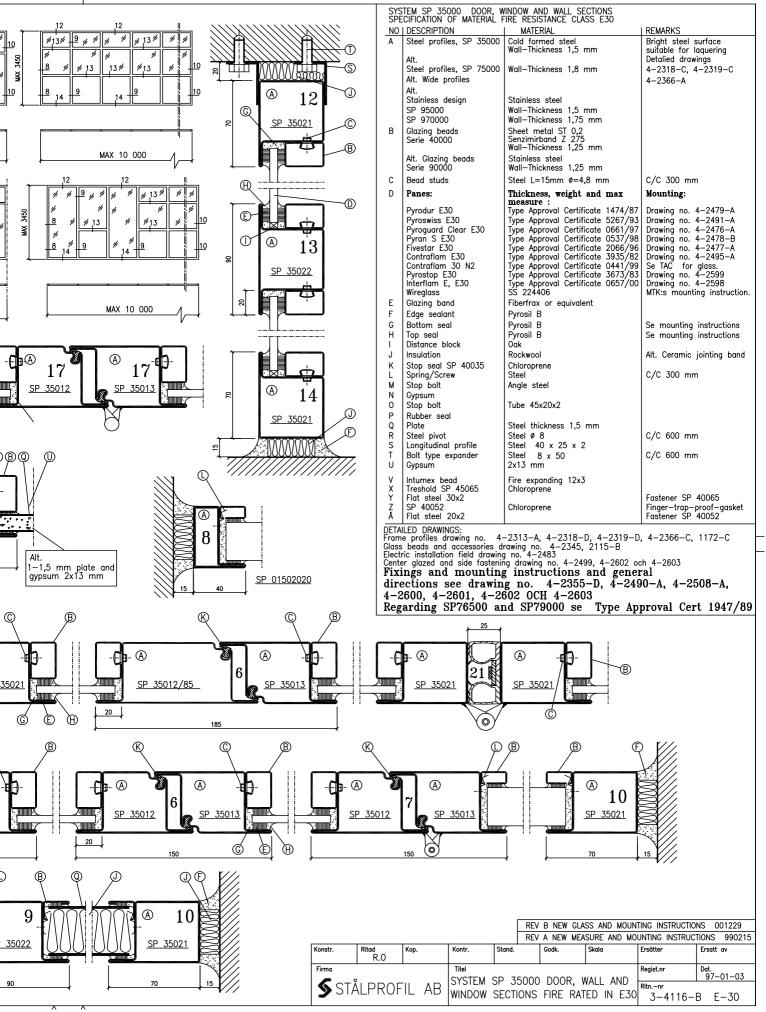
- a) Between stairwells and
 - basements or attics
 - in fire or airlocks
 - shops, warehouses or industrial premises
- b) Between lift shafts that are in themselves fire barriers or airlocks and corridors
- c) Between conduit and treatment building
- d) In fire resistant wall sections
- e) Front door of a flat

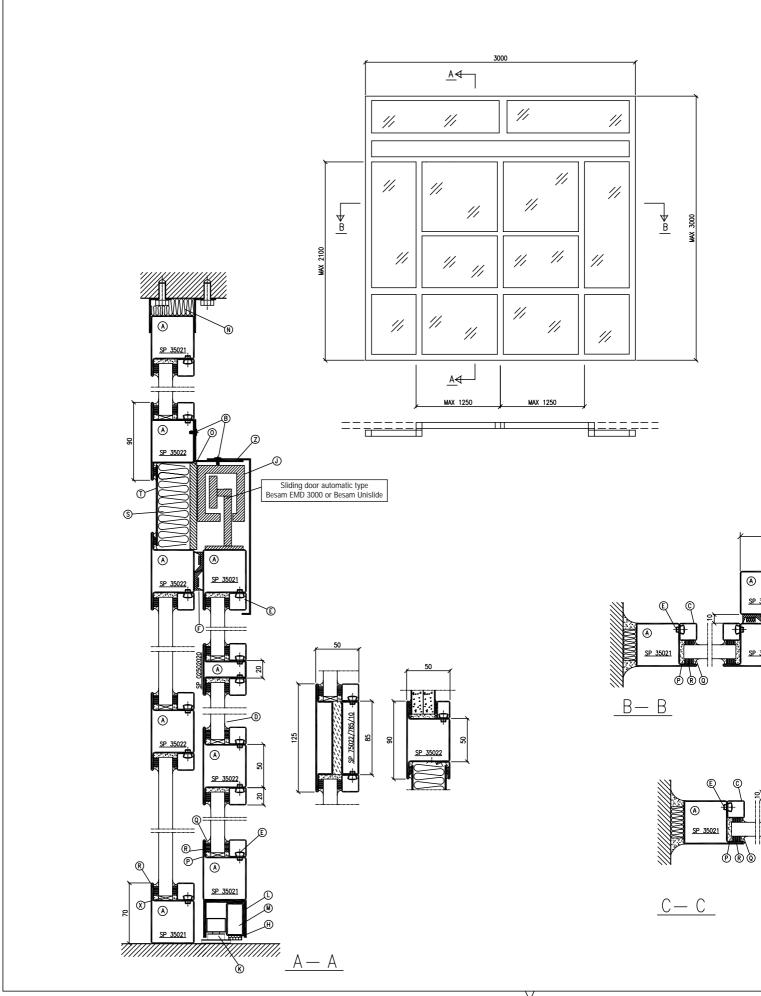


STÅLPROFIL AB SP 35000 DOOR, WINDOW AND WALL SECTION E 30 & E 60*



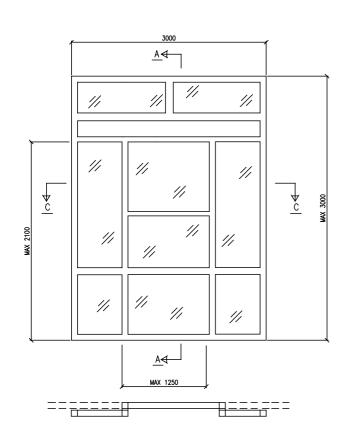
SP 35000 DOOR, WINDOW AND WALL SECTION E 30 & E 60* STÅLPROFIL AB





SP 35000 SLIDING DOOR E 30

STÅLPROFIL AB



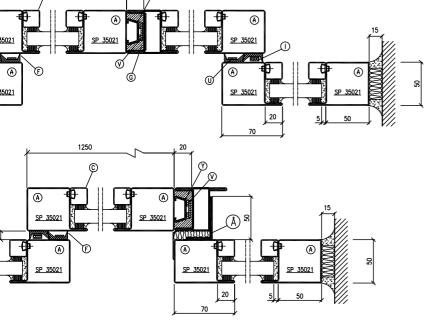
NO A	DESCRIPTION Steel Profiles SP 35000	MATERIAL RE	
A	Steel Profiles SP 35000		MARKS
	Alt. Stainless design SP 95000	Wall—Thickness 1,5 mm Stainless steel Wall—Thickness 1,5 mm	
B C	Fixing screw 6x20 Glass beads Serie 40000 Alt. Glass beads Serie 90000	Steel Senzimir Z 275 Stainless steel Wall-Thickness 1,25 mm	For cover plate
D	Panes: Pyroguard Clear E30 Fivestar E30 Pyron S E30 Pyrodur E30 Pyroswiss E30 Contraflam E30 Wireglass	Thickness, weight and max measurements Type Approval Certificate 0661/97 Type Approval Certificate 2066/96 Type Approval Certificate 0537/98 Type Approval Certificate 1474/87 Type Approval Certificate 5267/93 Type Approval Certificate 3935/82 SS 22 44 06	Mounting: Drawing no. 4–2476 Drawing no. 4–2477 Drawing no. 4–2478 Drawing no. 4–2479 Drawing no. 4–2491 Drawing no. 4–2495 MTK:s mounting instruction.
	Bead studs Rubber seal SP 20001 Rubber seal SP 20002 Intumex bead Intumex bead Door automatic Besam floor steering U-Profile Tube Ceramic jointing band	Steel Chloroprene Chloroprene Type BESAM EMD 3000 Steel 50x40x2 Steel 35x20x2	C/C Max 300 Fire expanding Fire expanding Alt. Rockwool
O P Q R S T U V X Y Z Å	Strenghtenings plate Source Strenghtenings plate Source Strenghtenings plate Source Strengthene Source Strengthene St	Steel 180x8 Pyrosil or equivalent Fiberfrax Rockwool Steel =1,5 mm Steel 10x2 Steel 20x2 Oak or Promatek Steel Steel =2 mm	Firm Besamrail Not at Intumex bead Alt. Intumex bead 125 kg/m ³ Pop-Rivets C/C 200 Pop-Rivets C/C 200 Fastener SP 40052

GENERAL INSTRUCTIONS: Frame profiles are jointed by welding. Frame profiles drawing no: $4{-}2338{-}A,\ 4{-}2519$ Glazing beads and accessories drawing no: $4{-}2349$

Fixing details and instructions drawing no: $4\!-\!2391$

Rubber gaskets to be mounted in a way that perfect tightness is obtained.

Also check the mounting instructions drawing no: 4-2352



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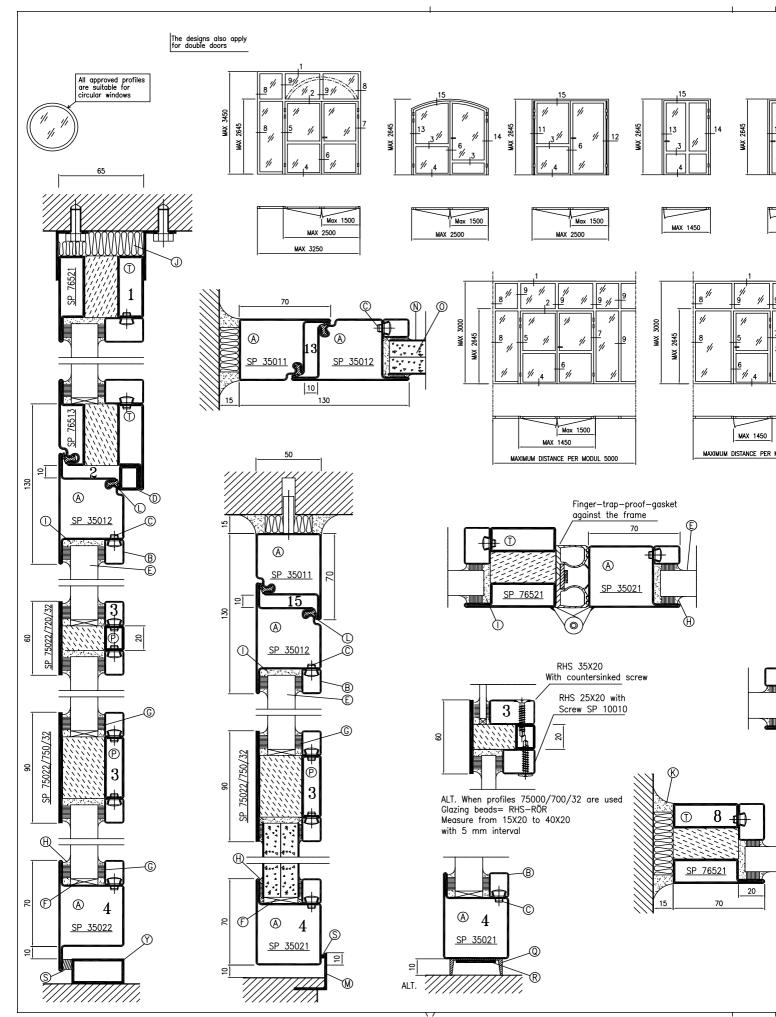
1250

C



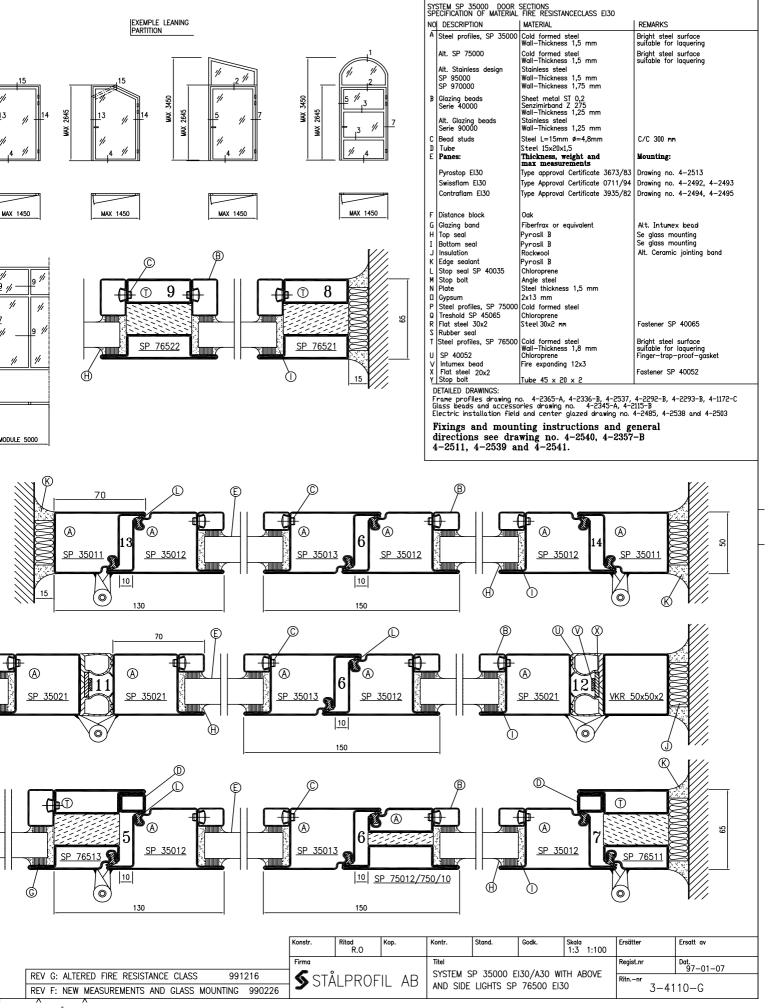
			Konstr.	Ritod R.O	Кор.	Kontr.	Stand.	Godk.	Skala 1:4, 1:40	Ersätter	Ersatt av
			Firma o			Titel SYSTEM	SP 35000) SLIDING		Regist.nr	Dat. 1997–02–19
REV C	GLASS MOUNTING AND SINGEL DOOR	990225 RO	AT2 🖉	STÅLPROFIL AB						Ritnnr	
REV B	MID BAND	970822 RO	JIALI NUILLAD			FIRE RAT	RE RATED IN E30			3-4117-	-C
REV A	MODIFYED TEXT GLASS	970219 RO									•
	Δ										

STÅLPROFIL AB SP 35000 A 30/EI 30 and SP 76500 WITH SIDE- AND OVERPANEL EI 30



SP 35000 A 30/EI 30 and SP 76500 WITH SIDE- AND OVERPANEL EI 30

STÅLPROFIL AB



SP	KE	PORT	Scilprofil AB Box 37 447 22 VÁRGÁRDA		OANNA A	SP	RE	PORT
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	Test o	Class 2 Doorset for burg	dary resistance				Test of 0	Class 3 Doorset for bur
	1	Introduction					1	Introduction
		netractions of Stälprofil AB, Värgi sith respect to burghry resistance.	icla, tests have been carried out on a	doar				ractions of Scilprofil AB, Via a respect to burglary resistance
	2	Test Method					2	Test Method
		was carried out in accordance with y neismance - Classification, Requi	h class 2 in SS 81 79 45, edition 1 *2 iroments and Toxing".	bors -				e carried out in accordance wi sistance – Classification, Rep
	3	Object of Test					3	Object of Test
	neiatieno maneta	ensent, and is described in Append	exemplastnered lives steel peofiles wi is 1. The decreat was delivered by th cond on 12 March 1996, with addition	N			scinforcers manufactor	t emitled System SP 25000 w mt, and is described in Appen er on 11 March 1996, and wa March 1996 and 3 April 1996
	The doc attack.	ever was fitted in a steel frame with	h the attack side outwards during the	manual			The downer attack.	t was filled in a steel frame wi
	4	Procedure and Result	5				4	Procedure and Resul
	4.1	Static loads					4.1	Static inads
		oads were applied at the various po- tions recorded in table 1 were note						s were applied at the various p is recorded in table 1 were no
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REPORT

Insultan InteringPatrony 1996-08-20 9681,0235B Translation 1997-03-18

2(3)

Table 1 Meanared deformations under static load

Point	Load (kN)	Measured deformation (mm)	Requirement (mm)
D1	6,0	1,8	3,0
F1 F2N	2,0	29,5	30,0
F20	2.0	22.2	30,0
F3	6,0	4,6	30,0
F30 F3 F4 F5	6,0	15,5	30,0
19	6.0	1.5	3.0

In the static parts of the test, the requirement for class 1 in accordance with 55 81 73-85 some met

4.2 Attack with hand tools

For all the attacks, tools as specified in class 1 were provided.

The attacks were carried out against the lock fitted with reinforcements. The attack was discontinued after 180 seconds, and the look had not been released or opened

An attack was carried out against the striking plate and the total period of attack amounted to more than 180 seconds, when the attack was discontinued and the striking plate had not been forced.

An attack was carried out against the door parel in an attempt to make a standard hole. The total period of the attack amounted to more than 180 necessite, when the attack was discentinged and a standard hole had not been made in the door panel.

An attack was carried out against the hings-side, which was supplied with three hinges and three rear-edge fastenings. The total period of the attack amounted to more than 180 seconds, when the attack was discontinued and the hinge side had not been forced.

5 Summary

On the instructions of Shilprofil All, a steel descent has been tested with regard to banglary resistance. The test was carried out in accordance with class 1 in \$25.81.73.45, edition 1 "Down – Banglary resistance – Classification, Requirements and Tosting"

Static loads in accordance with 55-19O 8289 were applied in accordance with class I with measured deformations which not the current requirements for this class.

BURGLARY RESISTANCE



Shilprofil AB Bax 37 447 12 VÅRGÅRDA

Deem Der Bendeing Beireur Biller Pap 1996-08-20 9681,023Serv 1 (3)

hurghary resistance

Virginia, tests have been carried out on a door

e with class 3 in \$5.61.73.45, edition 1 "Donts-Repairmances and Testing".

I was manufactured from steel profiles with pendix 1. The downet was delivered by the was insted on 12 March 1996, with additional 06.

with the attack side outwards during the manual

us points specified in \$5-150 8268, the rested.

5. Tel 100-M-501 IO. Telefux IEEM-0-50 (E. E-mail into Regues, Drgur 199846-0674 Neutros... et al. White Salaria and Sci al Strate Analysis department of the Salaria and Salaria



Stilprofil AB Box 37 447 22 VÅRGÄRDA

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Testing of Glass for Doors for burglary resistance

Introduction

On the instructions of Schlproff AB, Vlzgärla, tore have been carried out on doors effering barging resistance, see Responts 9081.03.278ev, 9080.03274 and 9081.02298. These reports offer to dones offening barging misinance, class 1–3 under 58.82.73.45 addion 1 "Doors – Barging resistance – Classification, Koginements and Texting".

As part of these tests, a test was carried and is necessbace with the above-named standards on Ripot DSK 3 and Multigrant 15 as glass panels, where the glass section was attacked with lumit tools in accordance with class 3.

2 Result

1

Report D&K 3 was attached with band tools in accordance with slass 3, and an opening at 300 s 470 mer was made after 3 minutes and 45 seconds. The corresponding period for Mukiganal 18 was 3 minutes and 43 seconds. In accordance with 55 61 73.45, the time for class 3 mean space 30 minutes 10 minutes. The samples nees not approved.

The Swedish National Testing and Research Institute Building Structured /

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I Snow to Sven-Ages Nilss Technical Office

This is a translation from the Swedish original document. In the event of any dispute as to the context of the document, the Swedish text shall take procedence.

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BURGLARY RESISTANCE

STÅLPROFIL AB

STÅLPROFILS BURGLARY RESISTANT PROFILE SYSTEM

SP 35000 is available in burglary resistant glazed door sections, classes 1, 2 and 3. The door sections are in compliance with the burglary resistant requirements in SS 81 73 45, 96B1.0235 A, B and C report, and the recommendations in 97B1.0581 from The Swedish Testing and Research Institute.

TABELL 1: Testing time and class					
Class	1	2	3		
Max time (sec)	180	600	600		

Test report

The Testing and Research Institute has on behalf of Stålprofil AB, Vårgårda tested the burglary resistant quality of steel door sections. The tests were carried out in accordance to the specifications for classes 1, 2 and 3 in SS 81 73 45 first edition. "Doors – Burglary Resistance Classification, Tests and Requirements". The door sections in question were manufactured with reinforced SP 35000 profile systems. See separate drawing.

• Static load tests were performed according to SS-ISO 8296 and all resulting deformations were less or considerably less than the basic requirements of the classes.

• The appropriate tools, as laid out in each class were present and used on the door sections to force entry

• Assaults were made on the reinforced locks for the maximum time allowed in each class, see table 1. At the end of the testing the locks were still locked and intact.

• Assaults were made on the face plate for the maximum time allowable in the test for each individual class. At the end of testing the face plate was still intact.

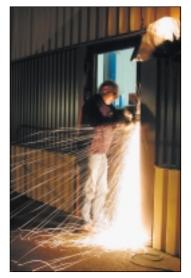
• The door panelling was subjected to testing with the aim of creating a hole in the door panel. The test ended after the maximum time allowed for each class without achieving a hole in the panel.

• Each door had 3 hinges and 3 rear edge fasteners. As with the previous tests the maximum time allowed for each class was utilized without causing the hinges to break.

Summary

Static testing was carried out in compliance with classes 1, 2 and 3. The resulting deformations after testing were all within the allowable for each class.

Manual assaults with tools were carried out on locks, hinges and face plate. The testing was further enhanced by a separate test to try and create a hole in the door panelling. Each individual manual assault was carried out for more than 180 seconds for class 1, and for over 600 seconds in classes 2 and 3.







BURGLARY RESISTANT DOORS – SAFETY CLASSIFIED DOORS

Burglary resistant doors are tested according to SS 81 73 45. The object is to test the parts of the door that can influence the capacity of the door to resist forced entry. Each part is tested according to the recommended time allowed e.g the hinges and glass in a class 3 door are tested for 10 minutes. Doors that withstand forced entry for the time period allowed in the test are considered to comply with the requirements in the standard.

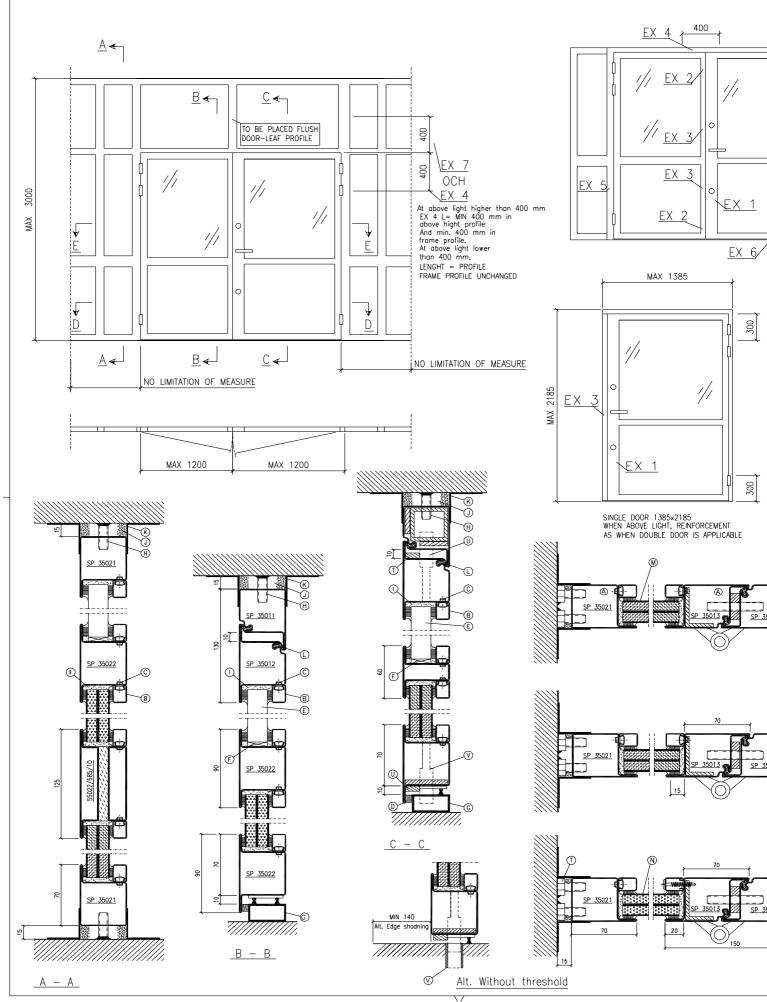
The guidelines from The Swedish Anti-Burglary Union, who actually are responsible for the RUS regulations, stipulate that doors meeting the requirements in SS 81 73 45 should be your first choice. The inevitable conclusion is that from the start of your project a tested door would be preferable, and that inside windows meet the requirements for burglary resistant doors.

In those cases where the standard cannot be adhered to or followed it is the responsibility of the insurance company to advise as to how burglary resistance quality should be attained.



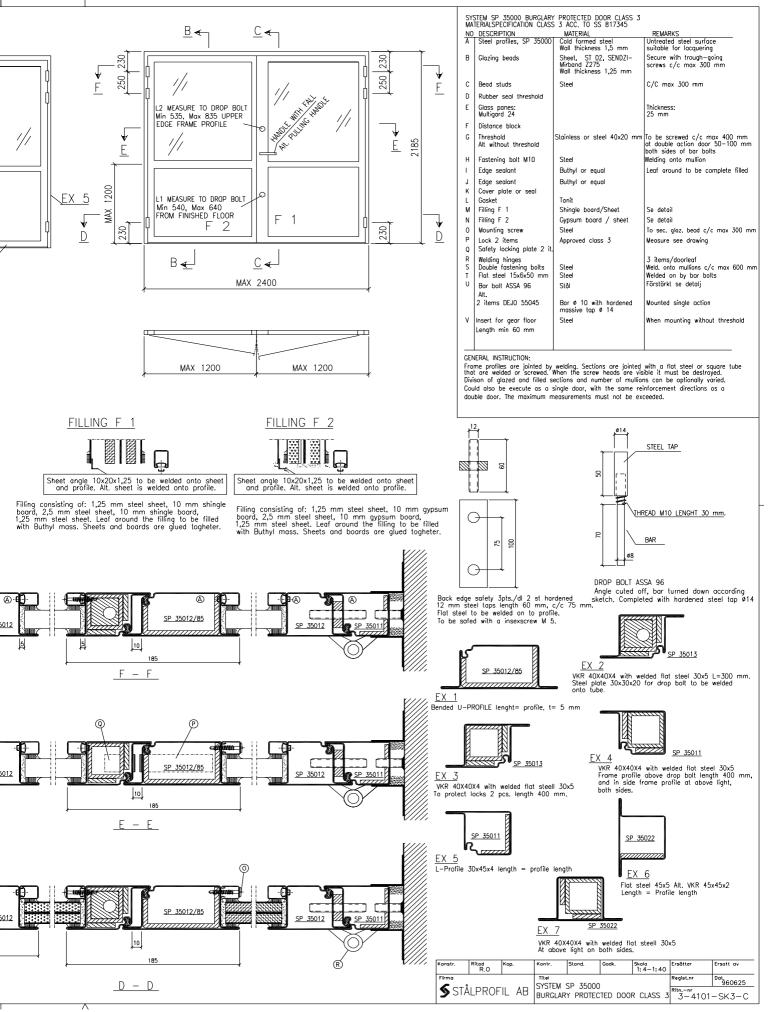
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SP 35000 BURGLARY RESISTANCE DOOR KLASS 3



SP 35000 BURGLARY RESISTANCE DOOR KLASS 3

STÅLPROFIL AB



SP 35000 BULLET PROOFING

BULLET RESISTANCE TESTING

Test protocol REV 1993-04-21 Building Construction Techniques, Swedish Testing and Research Centre, Borås

1. Introduction

On behalf of Stålprofil, bullet resistance testing was performed in March and April 1993 on steel profiles. SP report number 92B1.4092. The testing was carried out in Uddevalla.

2. Scope and Performance

The different steel profiles are called 350xx, 565xx, 765xx and 900xx (stainless steel). Reinforcements for each profile type are presented in table 1. Profile descriptions can be found in the appendix to SP report number 92B1.4092.

Table1: H	Profile type	with reinfo	orcement	of metal pl	ate (mm)
Profil nr	Class C1	Class C2	Class C3	Class C4	Class C5
350xx	4	5	8	12	12
565xx	-	-	-	8	8
765xx	-	-	-	8	8
900xx ¹⁾	-	3	3	6+4	6+4
4)					

1) Reinforced with stainless steel metal plate

The tests were performed according to the appropriate sections of Swedish Standard SS 22 44 29 "Construction Glass - Safety Windows - Classification". These particular standards address glass, but were used as the starting point for the tests. The profiles were fixed in a steel frame and shots were fired from 3, 10 and 25 metres. Each profile was subjected to at least 3 shots with approximately 25 mm spacing. The measurements taken at the testing site are not exact measurements, but the difference is marginal in relation to the distribution between the tested objects. The weapons and ammunition used is presented in table 2.

Table 2: V	Table 2: Weapon and ammunition type						
Class	Weapon	Ammunition					
C1	Army machine gun	9 mm standard					
C2	357 Magnum Marlin model 1894 CS	Hornady XTP 158 grain Norma RI 23 150 grain					
C3	44 Magnum Ruger Super Red Hawk 9"	Norma fabrics Nr 11103 240 grain 15 gram					
C4	.308 Winchester Remington	7.62 x 51 mm 9.7 gram					
C5	.308 Winchester Remington	7.62 x 51 mm 9.7 gram					

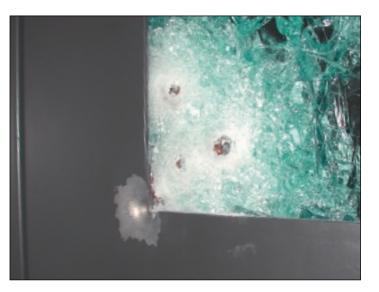
3. Result

None of the profiles in the test showed any damage on the interior side. The projectiles had in other words remained inside of the profiles. On the basis of the result the reinforced profiles are judged to be in compliance with the requirements for classes C1-SF to C5-SF according to SS 22 44 25. SF refers to the fact that the profiles were splinterproof on the inside.

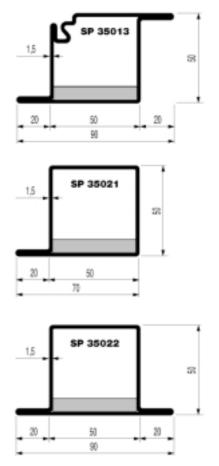
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Swedish Testing and Research Institut

Kent Gylltoft	Sven-Agne Nilsson
Prof. Dr.	Engineer
Head of Divison	
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Equipment

STÅLPROFIL AB

LABORATORY STIPULATED NOISE REDUCTION **INSULATION IN STEEL PROFILE SYSTEMS IN** ACCORDANCE WITH SS-EN ISO 140/3:95

Tested object

Assembled profile systems in various formats measuring 0.9m across and 2.1m long.

Test date 2001-04-03

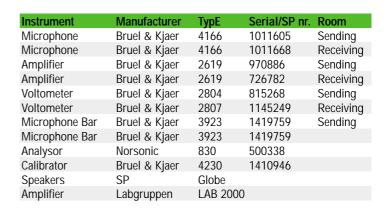
Result

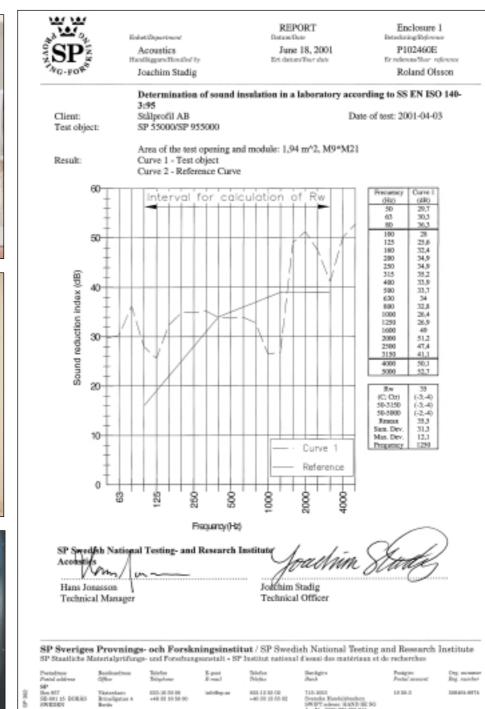
Noise reduction value (R), Average noise reduction value (R_{medel}) and weighted noise reduction value (R_w) are shown in appendix 1–6.

Measure method

The measurements were taken according to Swedish and International standards SS-EN ISO 140/3:95. The noise reduction value was determined by $R=L_1-L_2+10lg(S/A)$.

1.2.2









STÅLPROFIL AB MODULE LOCKS • ARCHES AND ROUNDED WINDOWS

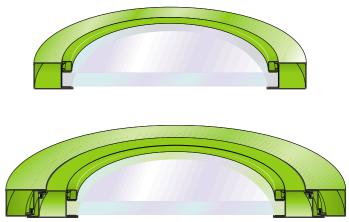


MODULE LOCKS

Stålprofils wide assortment of profiles functionally adapted for module locks offers the following advantages:

- Ranged by Swedish Standard
- 34 different locking functions for ASSA:s assortment, including narrow profiles
- Easier facilitate handicap adaptation
- Extensive assortment of accessories, e.g surface treatment and door handles





ARCHES AND ROUNDED WINDOWS

Stålprofilsystem SP 35000, SP 55000 and SP 75000 are available with arches, rounded windows and arched doors. The round profiles have the same characteristics as other system parts. Finger trap proof rear edging can be applied to arched doors and windows. All of the arches, arched doors and rounded windows are tested and type approved by SITAC.

Minimal size for exterior diameter

- Profile width 50 mm = 500 mm
- Profile width 70 mm = 700 mm
- Profile width 90 mm = 1100 mm



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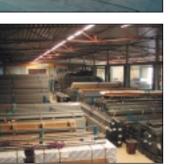




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