



isoweld[®] – The revolutionary field fastening system from SFS

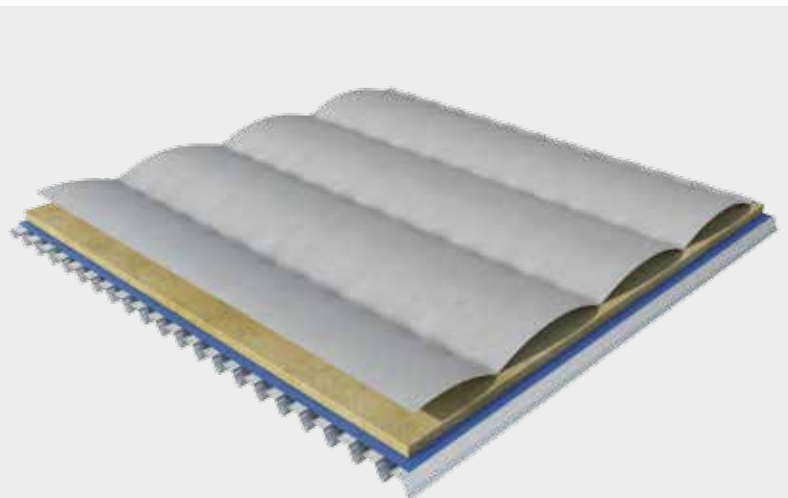
TURN IDEAS INTO REALITY



Another innovation
from SFS intec

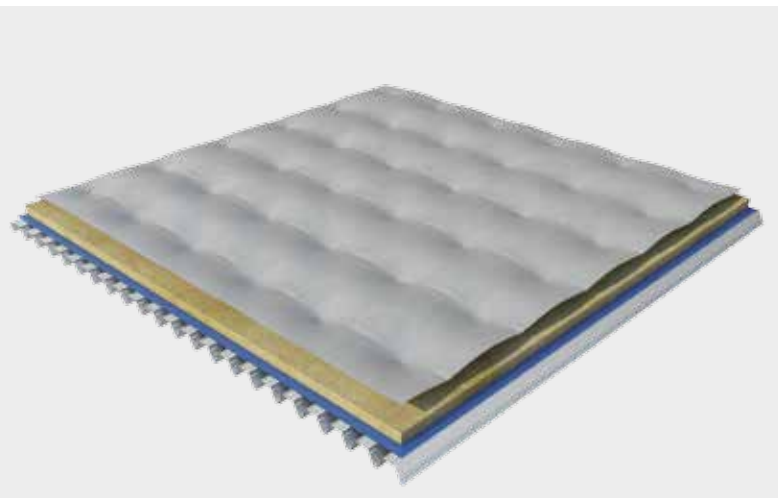
Mechanically fastened single ply roofs have been the established means of providing waterproofing for lightweight flat roof constructions for many decades. From the very start, SFS intec took the lead role in the development of mechanically fastened solutions and this innovative approach continues today with the new revolutionary SFS intec *isoweld*TM field fastening system. This offers a user-friendly, fast, efficient and approved system for the attachment of PVC and TPO single ply membrane systems.





Seam fastening

- Fastening at membrane joints
- Various membrane widths necessary
- Additional fastening is required for the insulation
- Penetration of the membrane
- Extended membrane overlaps are required
- Covering of the roof is dependent on the fastening process
- Set numbers of fastening points



Field fastening

- Fastening independent of membrane joints
- Only one membrane width required for the whole project
- No insulation fasteners are required
- No penetration of the membrane
- Reduced membrane overlaps
- Covering of the roof is independent of the fastening process – and is therefore faster
- Fewer fastening points

Whilst the field fastening technique application method for the attachment of single ply membrane is already used in the roofing industry; methods of attachment differ. The *isoweld™* field fastening system uses induction technology and offers a non-penetrating solution. Secure attachment is achieved through the welding of the membrane to a dedicated SFS intec stress plate.

Extensive field tests as well as extensive research of the working processes on site have shown that the installer can save up to 20% of the total installed system cost when using the *isoweld™* field fastening system. This is for example achieved through the reduced number of fasteners required together with a reduced membrane overlap required at the seam joints.



isoweld® 300

The induction tool *close up*

The key component of the isoweld™ system is the *isoweld™3000* induction tool which was developed in partnership with engineering induction specialists. The system has been extensively tested both in laboratory and site conditions. The *isoweld™3000* comes complete with the following essential features:

- 1 Start button to activate the induction process.
- 2 Height adjustable handle for ergonomic working.
- 3 Simple to use and user friendly display, including a number counter of welded points achieved.
- 4 Membrane compatible wheels allow for easy maneuverability.
- 5 Inductor dummy for stabilisation and built-in temperature sensor allowing automatic adjustment of the welding parameters relative to external site temperature
- 6 Specially developed inductor with search and control function. This ensures that the inductor is located correctly over the plate prior to welding.
- 7 Inbuilt compensation for variation of power supply.
- 8 Hand inductor for detailed work on upstands and narrow roof areas, e.g. around roof lights, openings, etc.

These features offer the user:

- Perfect welding quality
- Security
- User friendly operation

Would you like to see the extensive benefits of the newest SFS intec innovation for yourself? Contact us direct for a meeting with one of our specialists.





»The *isoweld*TM system has many benefits:
The easy handling and use of the induction tool is
one of them. Furthermore, you can use it on
different substrates, with or without sleeve and in
combination with different membrane technologies.
Additionally, we benefit from the high quality standard of
all SFS intec systems and from the competent support and
consulting offered. All in all a convincing overall package! «

Reto Gränicher, Corporate System Engineer
Mechanically Fastened Roofs, Sika Services AG

»The search and control function is a great benefit.
It indicates when the plate is correctly underneath the
inductor to ensure that the weld is perfect. «

Keith Gere, Director of Engineering Services,
Duro-Last Roofing Inc.



»We have tested the system on jobsites together with SFS intec and we like it very much. It needs a mind shift when installing the roof but brings a lot of benefits. Sika Austria will actively promote the system.«

Harald Scambor, Head of Applicationstechnik Roofing, Sika Oesterreich GmbH

»I like the hand inductor very much. It allows me to do the detail work with the same system as the rest of the roof. It is definitely an additional benefit!«

Fred Horner, installation company Advanced Roofing

»After a 5 minutes training, everybody can work with the induction tool. The upright working position allows a fatigue-proof working. We like the *isoweldTM* system!«

Installation company Höller Spenglerei GmbH

SFS
Your strong partner



SFS intec is an international company with over 50 years experience of manufacturing innovative fastening systems. Our customers profit from:

- A solution oriented culture to create customer value.
- In-house development and production in Europe, North America and Asia.
- Exemplary process and technology competence.
- Local presence linked to an international network.

SFS intec: Turn ideas into reality

Kontakta oss för mer information

SFS intec AB Division Construction
Olivehällsvägen 10, SE-645 42 Strängnäs
0152-71 50 00
se.info@sfsintec.biz | www.sfsintec.biz/se

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