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I

## **Product index**





## **Product index**



1

## **Application index**

Fastening of waterproof membranes and insulation to steel decks







# Fastening of waterproof membranes and insulation to lightweight concrete decks



## **Special fasteners**

## IP

for fastening of waterproof membranes and insulation to woodwool decks



Page 9.3

2

## TPR

Peel Rivet for fastening of waterproof membranes and insulation to aluminium, woodwool and "problem" decks





# Fastening steel decks to steel and timber structure



## Austenitic stainless steel self drilling fasteners for fastening steel deck to steel structure



## **Technical information** SX

### Material:

Fastener:

Washer:

to European Standard 10088) or grade 316 (grade 1.4401 according to European Standard 10088)\* S = Stainless steel, grade 304 or 316 with vulcanised EPDM Drill point: Case hardened, carbon steel

Austentic stainless steel, grade 304 (grade 1.4301 according

#### Application:

Stainless steel fastening of steel/aluminium decks to steel structures in one operation: drilling, thread forming and sealing.

- whene the internal environment/atmosphere has a permanently high relative humidity of 70% or more.
- in chemical aggressive atmospheres or conditions
- where an extended design live warranty is required by the client
- in aggressive tropical climates





Installation tools: CF 400 Automatic setting tool for magazined hexagon head fasteners (Page 10.7).



#### DI 600

The thinner the purlin or substrate the greater is the chance of the fastener stripping it's thread during installation. Purpose designed screwdriver and depth locators are available (Page 10.6).

\*Special programme: Available on request in SX3 and SX6 fastener types only.



## Austenitic stainless steel self drilling fasteners for fastening steel deck to steel structure



## Austenitic stainless steel self drilling fasteners for fastening steel deck to timber structure



# Technical information SXW

### Material:

Fastener: Washer:

Drill point:

SXW: Austenitic stainless steel, grade 304 (grade 1.4301 according to European Standard 10088) S = Stainless steel, grade 304 with vulcanised EPDM Case hardened, carbon steel

#### Application:

Stainless steel fastening of steel or aluminium decks to timber structure.





## Austenitic stainless steel self drilling fasteners for fastening steel deck to timber structure





## Austenitic stainless steel self drilling fasteners for the side lap stitching of steel decks



## Technical information SXL/SL-S

#### Material: Fastener:

Washer:

Drill point:

SXL and SL-S: Austenitic stainless steel, grade 304 (grade 1.4301 according to European Standard 10088) or grade 316 (grade 1.4401 according to European Standard 10088)\* S = Stainless steel, grade 304 or 316 with vulcanised EPDM Case hardened, carbon steel

#### Application:

Stainless steel fastening of side laps. The thread-free zone under the fastener head prevents stripping of the threads in the sheets. The sheets are pulled together tightly, clamped in the thread-free zone and sealed.



\*Special programme: Available on request.



## Austenitic stainless steel self drilling fasteners for the side lap stitching of steel decks

Product/Order code					Additional information				
Type <b>SL</b>	Max. drilling capacity VD (mm) 2–	Material S = Stainless steel <b>S –</b>	Washer: Material, Diameter <b>S14</b> –	Diameter d (mm) <b>4,8</b> ×	Length L (mm)	Magazir screws	nised (Page 10.7)	3	Installation tool Chapter 10 CF 400 or DI 600
		SL2-S	₩ <b>⊃</b> -S14-4	<b>.,8</b> ×	20	Applica Sealed Fool pro	tion	max. 2 x 0,63 mm to 2 x 1,00 mm	Standards
		SXL2-S	<b>)</b> S14-5,5	ō×	22	Sealed	VD max.:	max. 2 x 0,4 mm to 2 x 1,0 mm	APPROVED
		SXL2-S	\$16-6,3	> 8×	25	Sealed	wm or steel d	max.	)



## Fastening steel decks to steel structure



## Technical information SD-H15

### Material:

Hardened carbon steel, corrosion protected

#### **Application:**

For fastening steel decks to steel structures. The special 15 mm dia. integral flanged hexagon head provides an increased load bearing area over the metal deck, resulting in higher resistance to pull-over.





**Suitable Installation Tools: CF 400** Automatic installation tool for use with magazinised screws. (Page 10.7)



**DI 600** Special lightweight screwdriver. (Page 10.6)



Self drilling fasteners for faste	ning	steel	deck to steel structure			
Product/Order code			Additional information	nal information		
Max.drilling capacity VD (mm)with flanged headDiameter d (mm)SD5-H155,5×	Length L (mm)	Total thickness <b>KL</b> (mm)	Magazinised screws (Page 10.7)	Installation tool Chapter 10 CF 400 or DI 600		
			Application	Standards		
↓       ↓         ↓       ↓	22	8	VD max. VD max.: 5,0 mm t min.: 1,5 mm	Conforms to DTU 43.3 (France)		
↓       ↓	25	9	VD max.: 8,0 mm t min.: 1,5 mm	Conforms to DTU 43.3 (France)		
Image: SD12-H15-5,5×	32	12	VD max. VD max.: 12,0 mm t min.: 3,0 mm	Conforms to DTU 43.3 (France)		

## **SFS** intec

## Fastening steel decks to steel structure



# Technical information SD–T15

#### Material:

Hardened carbon steel, corrosion protected

#### **Application:**

For fastening steel decks to steel structures. The 15 mm dia. pre-assembled sealing washer provides air/vapour sealing and increased resistance to pull over.





Suitable Installation Tools: CF 400 Automatic installation tool for use with magazinised screws. (Page 10.7)



**DI 600** Special lightweight screwdriver. (Page 10.6)





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## Fastening steel decks to timber structure



## **Technical information** SW-T

### Material:

Hardened carbon steel, corrosion protected.

### **Application:**

For fastening steel decks to steel structures. The special 15 mm dia. integral flanged hexagon head provides an increased load bearing area over the metal deck, resulting in higher resistance to pull-over.





## **Product/Order code**



## Fastening steel deck side laps



# Technical information SL

#### Material:

Hardened carbon steel, corrosion protected

#### Application:

**SL:** The thread-free zone under the fastener head prevents the threads stripping in the sheets. Sheets are pulled together tightly, clamped in the thread-free zone. Also with sealing washer for sealed applications.

**SL-H15:** High performance self drilling stichers with flanged head for structural steel decks.





Suitable Installation Tools: CF 400 Automatic installation tool for use with magazinised screws. (Page 10.7)



DI 600 Special lightweight screwdriver. (Page 10.6)



Self drilling	fasteners for	the si	de la	ap stit	ching of steel	decks	
Product/Order	code	Additional information					
Max. drilling capacityT =TypeVD (mm)SL 2-T	= carbon with washer steel Ø (mm)	Diameter   d (mm)   <b>4,8</b> ×	Length L (mm)		Magazinised screws (Page 10.7)	2	Installation tool Chapter 10 CF 400 or DI 600
					Application		Industry Standards
	<b>SL2-4,8</b> ×		20		VD max.:	max. 2 x 0,63 mm to 2 x 1,00 mm	Conforms to DTU 43.3 (France)
	SL2-H15-6,3×		22		VD max.:	max. 2 x 0,63 mm to 2 x 1,00 mm	Conforms to DTU 43.3 (France)
	SL3-H15-6,3×	3	32		VD r VD max.: High load thick deck sheets	max. 2 x 1,1 mm to 2 x 1,5 mm	Conforms to DTU 43.3 (France)
	SL2-T-A14-4,	<b>8</b> ×	20		VD max.:	max. 2 x 0,4 mm to 2 x 1,0 mm	Conforms to DTU 43.3 (France)



# Fastening of waterproof membranes and insulation to steel decks



## Fastening of waterproof membranes and insulation to steel decks



## Technical information isofast IR and plate – treadfast

#### Material:

Screws:

IR hardened carbon steel
 Durocoat corrosion protection
 Resistance at 15 cycles Kesternich
 IR-S stainless steel, austenitic grade 316;
 (grade 1.4401 according to European Standard 10088)
 steel, aluzinc plated

Stress plate:

#### **Applications:**

IR for fastening membranes and insulation to steel deck

- IR-S where the inside atmosphere has a permanently high relative humidity over 70%
  - in chemically aggressive atmospheres or conditions
  - for refurbishment when the condition of the remaining roof build-up is not known in detail or when the old roof covering damages the corrosion protection and makes it ineffective
  - where an extended design life/warranty is required by the client
  - in aggressive tropical climates



### Generally:

The supporting thread under the screw head prevents damage to the waterproof membrane when compressible insulation is used. The IR screw is collated for use with the automatic installation tool, IF 160/240.

#### **Recommended design load:**

IR 82 x 40 stress plate – 500 N with reinforced membranes and steel deck 0,7 mm thick (min.) 400 N with homogenous and bituminous membranes.

The design load can vary for each roof system. Please check with the membrane manufacturers' data.

#### Installation tools for optimum efficiency: IF 240 (Page 10.4)

**DI 600** (Page 10.4)













4.5

## Fastening to steel deck from 1,0 mm to 2 x 1,5 mm



**SFS** intec

## Fastening of waterproof membranes to steel deck



# Technical information isofast IR2-C

Material:

hardened carbon steel Durocoat corrosion protection

#### **Applications:**

For fastening membranes over hard surface/insulation, to steel deck.



#### Generally:

The supporting thread under the screw head prevents damage to the waterproof membrane when compressible insulation is used.

Installation tool:

DI 600 (Page 10.6)



## Fastening to steel deck from 0,63 mm to 2 x 1,25 mm







# Fastening of waterproof membranes and insulation to steel decks





# Technical information isofast IF 80

## Material:

Screws:

IR: hardened carbon steel
Durocoat corrosion protected
Resistance at 15 cycles Kesternich
IR-S: stainless steel, austenitic grade 316;
(grade 1.4401 according to European Standard 10088)
steel, aluzinc plated

Stress plate:

### **Applications:**

IR-S

IR for fastening membranes and insulation to steel deck

- where the inside atmosphere has a permanently high relative humidity over 70%
  - in chemically aggressive atmospheres or conditions
  - for refurbishment when the condition of the remaining roof build-up is not known in detail or when the old roof covering damages the corrosion protection and makes it ineffective
  - where an extended design life/warramty is required by the client
  - in aggressive tropical climates





#### Generally:

The stress plate is pre-assembled on the screw for increased efficiency. Fasteners must be installed with IF 80 tool.

Installation tools for optimum efficiency: IF 80-L (Page 10.5) IF 80-S (Page 10.5)









## Fastening to steel deck from 1,0 mm to 2 x 1,5 mm





# Fastening of waterproof membranes and insulation to concrete decks

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5
### Fastening of waterproof membranes and insulation to concrete decks





## Technical information spike

### Material:

spike D:	heat treated carbon steel with Durocoat
	corrosion protection
spike D-S and DL-S:	stainless steel, austenitic grade 316
	(grade 1.4401 according to European Standard 10088)
spike DL:	heat treated carbon steel, zinc plated
Stress plates:	Aluzinc coated steel

. . . . . . . . .

### Application:

For fastening membranes and insulation to solid, dense concrete of minimum B25 grade (25  $N/mm^2$  compressive strength).

#### **Recommended design load:**

With IRD 82 x 40 stress plate 500 N per fastener when reinforced membranes are used, otherwise 400 N max. On-site pull-out tests required to confirm performance, if concrete quality is

Un-site pull-out tests required to confirm performance, if concrete quality is unknown.

The design load can vary for each roof system. Please check with the membrane manufacturers' data.

#### Installation tools for optimum performance:

**DB 620** electro pneumatic hammer drill with SDS drive (Page 10.11) **Accessories** (Page 10.11)

### Simple installation – consistant performance







### Stress plates: membrane









### insulation

Type Dimensions **ID** 70 x 70 mm





## Stainless steel fastening of waterproof membranes and insulation to concrete decks



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### Fastening of waterproof membranes and insulation to solid, hollowpot and thin walled concrete decks

## Technical information isofast TI

#### Material:

Screw:

Stress plates:

hardened carbon steel, Durocoat corrosion protection Aluzinc coated steel

#### **Applications:**

For fastening waterproof membranes to various concrete decks. For fastening insulation to various concrete decks.



#### **Generally:**

Installation to be with slow speed screw gun.

Pull out tests must always be made on all refurbishment projects to confirm pilot hole dia. and performance.

Minimum concrete thickness 25 mm. Minimum embedment 20 mm.

#### **Recommened design load:**

With IRD 82x40 stressplate 500N per fastener when reinforced membranes are used, otherwise 400N max. The design load can vary for each roof system. Please check with the membrane manufacturers'data.

Installation tools for optimum efficiency: DB 620 hammer drill (Page 10.11) DI 600 screwdriver (Page 10.6)





### 5.6



### Advice for using carbide tipped drill bits in flat roof applications

- Max. pressure 5–10 kg

- Drill perpendicular with no bending pressure
- Remove dust by "pumping" occasionally
- Remove bit frequently during last 20 mm
- Dust removal is dependant on bit flutes. Therefore clean bitumen deposits frequently.



# Fastening of waterproof membranes and insulation to thin concrete roof liner trays

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## Fastening of waterproof membranes and insulation to thin concrete roof liner trays



## Technical information isofast IE

### Material:

Expanding sleeve: Aluminium Screw: heat treate Stress plate: Aluzinc coa

heat treated carbon steel with Durocoat Aluzinc coated steel

### Application:

For fastening of waterproof membranes and insulation to thin concrete roof liner trays and hollow core beams. (min. B25) Min. panel thickness: 25 mm.



### Note:

During the final operation the special screw forms a thread in the sleeve. Radial forces arising during this operation expand the sleeve, thus creating the non-slip fastening which is resistant to vibration and unscrewing.

### Installation tools for optimum performance:

**DB 620** Hammer drill (Page 10.11) **DI 600** Screw driver (Page 10.6)

### Setting procedure:









Min. panel thickness: 25 mm Min. concrete strength: ßw = 25N/mm<sup>2</sup> Design load Frec: 0,4 kN



## Fastening of waterproof membranes and insulation to thin concrete roof liner trays



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### Advice for using carbide tipped drill bits in flat roof applications

- Max. pressure 5–10 kg

- Drill perpendicular with no bending pressure
- Remove dust by "pumping" occasionally
- Remove bit frequently during last 20 mm
- Dust removal is dependant on bit flutes. Therefore clean bitumen deposits frequently.



# Austenitic stainless steel self drilling fasteners for composite panels



### Austenitic stainless steel self drilling fasteners for composite panels to steel and timber structure



## Technical information SXC, SXCW

#### Material: Fastener:

 Fastener:
 Austenitic stainless steel, grade 304 (European Standard 1.4301)

 Grade 316 (European Standard 1.4401)\*

 Washer:
 S = Stainless steel, Grade 304 or 316

 A = Aluminium

 with vulcanised EPDM

 Drill point:
 Case hardened, carbon steel

### **Application:**

Fastening composite panels to steel or timber structure. The unique thread free zone underneath the head and stress rings on the shank of the heavy section fastener all ensures a long term problem free fastening.



ntec

### Purpose designed setting tool CF50:

The depth locator and supporting sleeve prevents scratching of the outer panels and reduces the danger of overdriving. (Page 13.5)



### Washer Recommendation





#### Coloured fasteners: Colour heads are achieved trough powder coating.

### \*Special programme:

Available on request in SXC5 fastener type only.

## Austenitic stainless steel self drilling fasteners for composite panel to steel structure





## Austenitic stainless steel self drilling fasteners for composite panel to timber structure





## Austenitic stainless steel self drilling fasteners for concealed fixing of architectural wall panels to steel structure



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## Austenitic stainless steel self drilling fasteners for side lap stitching composite panels





# Fastening of waterproof membranes and insulation to timber decks



7

### Fastening of waterproof membranes and insulation to timber decks



## Technical information isofast IG/IW

### Material:

Screws:

IG hardened carbon steel
Durocoat corrosion protection
IW-T hardened carbon steel
Durocoat corrosion protection
IW-S stainless steel, austenitic grade 304;
(grade 1.4301 according to European Standard 10088)
steel, aluzinc plated

Stress plates:

### Applications:

**isofast IG:** for the fastening of waterproof membranes and insulation (min. compressive strength 0,07 N/mm<sup>2</sup>) to timber decks. **isofast IW:** for the fastening of waterproof membranes to timber decks.

#### Generally:

Timber to be minimum 18 mm thick plywood, to BS 6566/pt 2 1985. Oriented strand board minimum 18 mm. Type F2 to BS 5669/pt 3 1992. Solid softwood minimum 22 mm thick.

#### **Recommended design loads:**

isofast IG:with stress plate IRD 82 x 40, 500 N per fastenerisofast IW:with stress plate IRC/W 82 x 40, 500 N per fastenerBoth above with reinforced membranes otherwise 400 N per fastenerThe design load can vary for each roofing system.Please check with membrane manufacturers' data.On refurbishment contracts pullout tests required.

### Installation tools for optimum efficiency:

IF 240 (Page 10.4) DI 600 (Page 10.6)



### isofast IW





### Fastening of waterproof membranes and insulation to timber decks







# Fastening of flashings, upstands and terminations etc.

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<mark>SFS</mark> intec

## Fastening termination bars and plastic coated metal upstands to concrete and masonry



### Technical information RNR

### Material:

Body: Screw: Zinc alloy RNR: zinc plated carbon steel RNR-S: stainless steel, austenitic grade 304 (grade 1.4301 according to European Standard 10088)

### Applications:

For fastening terminations and plastic coated metal upstands directly to concrete and masonry.

The RNR hammer-screw fastener is simple to install, has high pull-out values and is removable.



### Installation:







Removal with PH 2 screw driver



Re in w

Remove screw, wind in Z–RNR tool, and withdraw fastener.



### Fastening termination bars and plastic coated metal upstands to concrete and masonry







### **Special fasteners**



### Fastening of waterproof membranes and insulation to woodwool decks





## Technical information isofast IP

### Material:

Screw: Stress plates:

Fibreglass reinforced nylon (Zytel®) es: Aluzinc coated steel

#### **Application:**

For fastening membranes and insulation to woodwool structural roof decks (to BS 1105) of minimum thickness 50 mm.

#### **Generally:**

Minimum embedment of 38 mm into the woodwool must be achieved. Maximum pull out values are achieved by full thread engagement, i.e. 58 mm. Unwinding under dynamic wind loads is prevented by the unique ratchet system and barbed stress plates.

Pre-screeded woodwool requires a clearance hole of 18 mm be made into the screed only.

Installation must be made with slow speed (max. 700 rpm). Normally, the isofast IP screw can be installed into woodwool without predrilling.

On some refurbishment contracts pre-drilling of the existing build-up may be required.

Pull-out tests must always be made on all projects to confirm performance and suitability – contact SFS.

Recommended design load to be maximum 400 N and is dependant on on-site pull-out tests.

### Installation tools for optimum performance:

DI 600 (speed control by trigger) electric screwdriver (Page 10.6)







### Stress plates: membrane

Type IP2 (Ø 51 mm)



### insulation

Type **IP3** (Ø 76 mm)





### Fastening of waterproof membranes and insulation to aluminium, woodwool and "problem" decks



### Technical information Peel Rivet System TPR

#### Material:

Body: Mandrel: Stress plates: Aluminium/magnesium alloy Zinc plated steel Steel, aluzinc plated

#### Application:

For the fastening of waterproof membranes and insulation to aluminium, woodwool and "problem" decks, where conventional threaded fasteners may not achieve sufficient performance.

#### Generally:

To be installed via pilot hole. Application tests are required on all projects to determine suitability and performance.

"Problem" decks	TPR-L L = (38–178 mm)	TPR
Thin steel	< 0,63 mm	≥ 0,63 mm
	< 0,50 mm*	
Aluminium	< 1,0 mm	≥ 1,0 mm
	< 0,60 mm*	
Composite panels	KL ≥ 13 mm	
	(note: metal faced)	
Thin walled concrete	KL > 13 mm**	

\* = application tests are required to determine suitability and performance

KL = clamping length, for fragile materials such as aluminium, woodwool, etc. optimum results are achieved with penetration of 32–38 mm

penetration of 32–38 \*\* = without hammer drill





Installation tools: HN2 Lever tool (Page 10.12) TPR 50 electric rivetting tool (Page 10.12)














# Installation tools for all applications





# IF 240

#### Technical data:

Screwdriver: Wattage: R.P.M.: Voltage: Hight: Width: Weight:

Fasteners:

Diameter: Length: 4,8 mm and 6,0 mm 50 mm to 240 mm

230 V or 110 V

DI 600

600 W 2000

28 kg

from 50 mm – 160 mm, screws collated at 75 pcs. per strip

1100 mm (working height)

415 mm (across rollers)

from 180 mm – 240 mm, screws collated at 100 pcs. per strip

#### Application:

For the fast and economic installation, in an upright, ergonomic position, of collated fasteners (IR2, IR3, IG) and stress plates (IR 82x40, IRD 82x40, IF 70x70, ID 70x70).



Standard accessories:

Transport case Waterproof cover Tool bag Socket E320 (8 mm hex) Spray lubricant

#### **Special accessories:**

Adjusting device for guide pin Alignment bar for fastener spacing







## IF 80

### Technical data:

Screwdriver: Wattage: R.P.M.: Voltage: Depth locator: Total hight:

Weight:

Fasteners:

Diameter: Length: 4,8 mm 50 mm à 300 mm

DI 600

600 W

230 V or 110 V

IF 80-L: 750 mm IF 80-S: 2 kg

IF 80-L: 2,5 kg

adjustable IF 80-S: 470 mm

2000

#### Application:

For small areas. Ready-to-use fasteners which are preassembled with plate if requested. The assembling may be done on the job site if necessary.

### Accessoires:

Socket:

E 320 (8 mm hex)









# **DI 600**

### Technical data:

Screwdriver: Wattage: R.P.M.: Voltage: Length: Weight: DI 600 600 W 2000 230 V or 110 V 290 mm 1,6 kg

### Application:

For the simple installation of all screw fasteners.



#### Accessories:



Square drive SQ 3 (for IR2-C fasteners) PZ 2 (for IW fasteners) PH2 (for IT2 fasteners) PH3 (for IF2 fasteners) Square drive SQ 10 (for IP fasteners)









# **CF 400**

#### Technical data:

Wattage: R.P.M: Voltage: Length: Weight: 420 W 1700 230 V or 110 V 370 mm 2,17 kg

### Application:

Fully automatic system which greatly increases installation speed, saving time and money, compared with the conventional manual method. Suitable for installing hexagon head fasteners in steel up to 12 mm thick with a maximum washer diameter of 16 mm.



GE 400

Height adjustable handle of the CF 400 improves the ergonomic working position on the roof.





Plastic strip magazine with 10 fasteners.

Accessories:



Socket E 340 Hexagon head





Extra large pouch for magazinised CF 400 fasteners



# DI 412

#### Technical data:

Power tool:	
R.P.M.:	
Power supply:	
Adjustable torque:	
Weight:	
Charge time:	
Charger voltage:	

#### Application:

Light weight battery screwgun for installing self drilling and self tapping fasteners.

DI 412 1400 12 V 1–10 N/m 2,0 kg 21 Min. 230 V or 110 V



#### DI 412 accessories:





# CF 40-G

### Technical data:

Screwdriver: Wattage: R.P.M.: Voltage: Length: Weight: Torque: ASsd 637 300 W 530 230 V or 110 V 440 mm 3,4 kg adjustable

### Fasteners:

IGR and IGF, dia. 8 mm, with internal square drive SQ 3

#### **Application:**

For the torque controlled hand installation of isofast IGR and IGF screws into lightweight concrete.





#### Accessories:





# IF 160-G

### Technical data:

Screwdriver: Wattage: R.P.M.: Voltage: Hight: Weight: Torque: ASsd 637 300 W 530 230 V or 110 V 1065–1145 mm 30 kg adjustable

### Fasteners:

Diameter: 8,0 mm Lenght: 65 mm à 190 mm

#### Application:

For the easy installation of the IGR fasteners for lightweight concrete.

- Manual single fastener feeding

- Automated load distribution feeding (75 plates)



### Accessoires:

- 1 Transport case
- 1 Waterproof cover
- 1 Tool bag
- 1 Square drive bit SQ 3
- 1 Lubricant





# DB 620 (Electro-pneumatic hammer drill)

#### Technical data:

Wattage: R.P.M.: Voltage: Length: Weight: 620 W 870 230 V or 110 V 360 mm 2,4 kg

### Application:

The hammer drill DB 620 is the ideal tool for drilling into concrete. With the special accessory DP 11 the DB 620 can also be used to install spike fasteners with little effort.

#### Hammer drill bits:

See Page 5.7



#### Accessories:





#### Extension DF 21

Allows the DB 620 to be used from a standing position, ensuring optimum performance from tool and operator.



#### **SDS Driver DP 11** In combination with the hammer drill DB 620 the DP 11 is the optimum installation tool for spike fasteners.



Hand driver ZD 15 For the manual installation of spike fasteners.



# **Rivetting tools**

### TPR 50 electric rivetting tool

#### Technical data:

Wattage: R.P.M.: Voltage: Pulling stroke: Pulling speed: Weight: Total length:

230 V or 110 V 50 mm 0,7 s/stroke 3 kg 480 mm

600 W

600

### Spare parts:

Nose piece: Clamping brackets: Art.-No. 896 857 Art.-No. 896 854 (3 pcs.)



# Lever tool HN2

**Application:** for low volume installation of Peel Rivets







