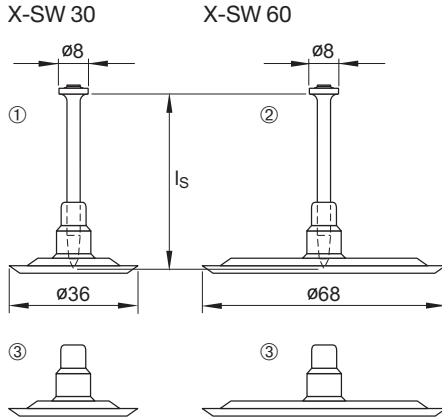


X-SW 30, X-SW 60 Soft Washer Fastener

Product data

Dimensions



General information

Material specifications

Plate:	PE
Nail:	Carbon steel shank: HRC 52.5
	Zinc coating: 5–13 μm

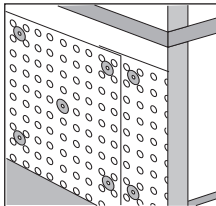
Fastening tool

DX 460, DX 36, DX-E 72, DX 460-MX

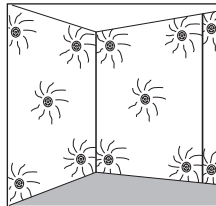
See fastener selection for more details.

Applications

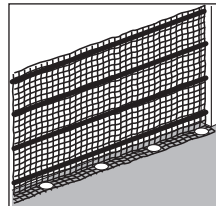
Examples



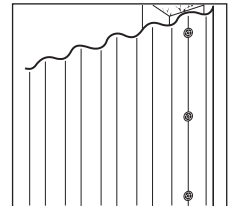
Membranes and drainage plates



Insulation up to 30 mm thick



Nets, fabric and similar



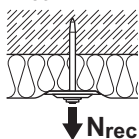
Plastic corrugated sheets

Load data

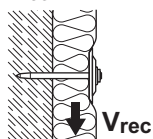
Design data

Recommended loads

$N_{rec} = 300 \text{ N}$



$V_{rec} = 300 \text{ N}$



Design conditions:

1. Minimum 5 fastenings per fastened unit.
2. Predominantly static loading.
3. Design loads valid for nail pull-out strength. Fastened material has to be considered separately.
4. Valid for concrete C 30/37.

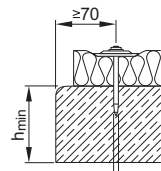
Test data

For more detailed information on the performance of the system please contact Hilti.

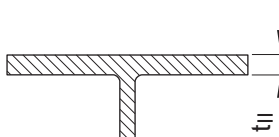
Application requirements

Thickness of base material

Concrete: $h_{min} = 80 \text{ mm}$



Steel: $t_{II} \geq 4 \text{ mm}$



Thickness of fastened material

Membranes, nets, etc.: $t_I \leq 25 \text{ mm}$

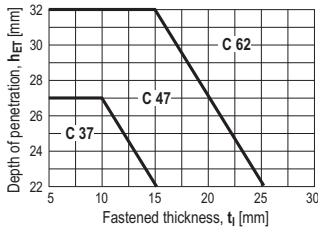
Insulation: $t_I \leq 30 \text{ mm}$

Spacing and edge distances

For setting instructions please inquire at the supplier of fastened material.

Fastener selection and system recommendation

Fastening to concrete



Green concrete

Normal concrete

Old concrete

- **X-SW 30** for stronger, less damageable material.
- **X-SW 60** for more easily damaged material (i.e. aluminium foil, nets, paper, etc.)
- Select **C 37**, **C 47** and **C 62** according to base material conditions and fastened thickness

System recommendation

Fastener

Designation	Item no. Packs of 100/150	Packs of 400/500	L _s [mm]	Tools Designation
① X-SW 30-C 37	40643	40614	37	DX 460, DX 36, DX-E 72
① X-SW 30-C 47	40644	40615	47	DX 460, DX 36, DX-E 72
① X-SW 30-C 62	40645	40616	62	DX 460, DX 36, DX-E 72
② X-SW 60-C 37	40617		37	DX 460, DX 36, DX-E 72
② X-SW 60-C 47	40618		47	DX 460, DX 36, DX-E 72
② X-SW 60-C 62	40619		62	DX 460, DX 36, DX-E 72
③ X-SW 30	371370			DX 460-MX with collated
③ X-SW 60	371371			X-C nails (3.5 mm shank dia.)

Tools

Cartridge selection and tool energy setting

Cartridge recommendation: Concrete **6.8/11M yellow or red**

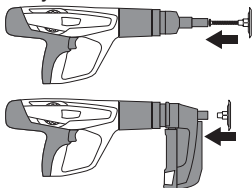
Masonry: **6.8/11M green**

Tool energy adjustment by setting tests on site.

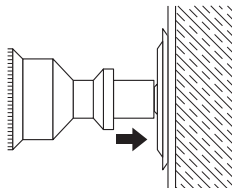
Fastening quality assurance

Installation

1. Load **X-SW** fastener on cyclic tool



2. Press the **X-SW** against the surface



3. Pull the trigger to fasten

