



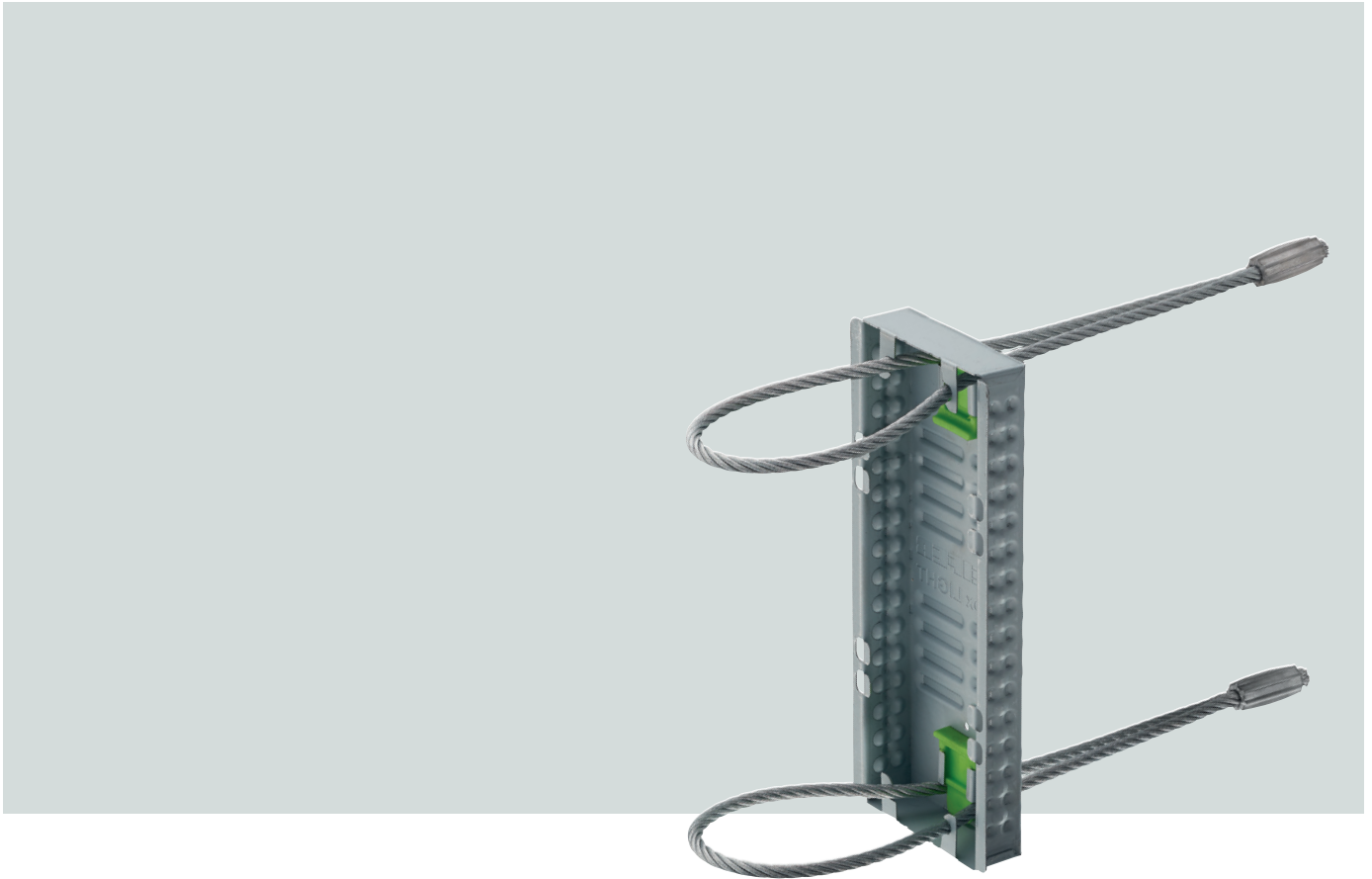
# FS Box LIGHT

wire loop connection for  
concrete elements



**PFEIFER**

# LIGHTER. MORE EFFICIENT. MORE INNOVATIVE.



## + Application

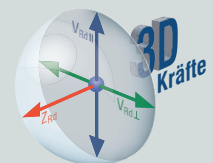
- Flexible and with a wide range of applications:
  - Precast element/double wall
  - Precast element/cast in-situ concrete
  - Semi-precaster element/double wall
  - Cast in-situ concrete/double wall
  - Cast in-situ concrete/cast-in-situ concrete

## + Efficient

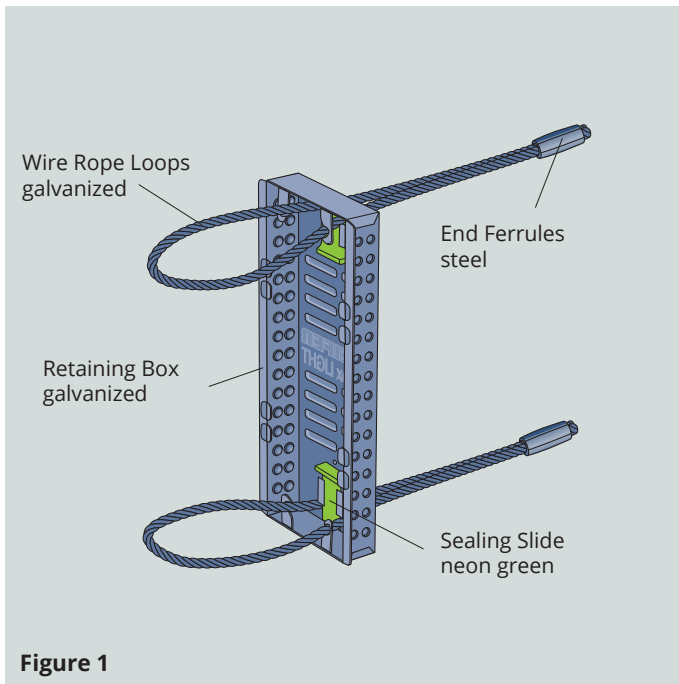
- High design resistances in all directions
- Robust wire rope loops – perfectly designed for use with in-situ concrete
- European Technical Approval **20/0785**

## + Flexible & easy

- Flexible wire rope loop system
- No rigid rebending connections
- No bending effort
- No risk of injury
- Loop jumps automatically into the intended position
- Any configuration can be achieved
- Timesaving – easy to install



# Areas of application



The PFEIFER FS System is intended to be used for connecting cast in-situ concrete elements. The unfolded wire rope loop protrudes into the wall to be connected. In combination with a centrally inserted reinforcement bar and the subsequent concreting on the construction site, a load bearing connection can be manufactured.

Can be used in various concrete structural elements and for connecting:

- Precast element/semi-precast element
- Precast element/cast in-situ concrete
- Semi-precast element/semi-precast element
- Cast in-situ concrete/semi-precast element
- Cast in-situ concrete/cast-in-situ concrete

Delivered taped with fabric tape, wire rope loops embedded into retaining box.

## Standard

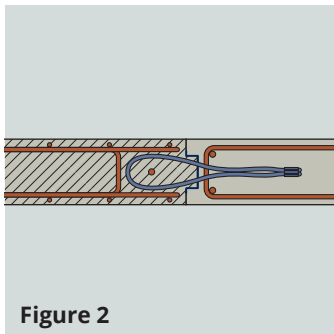


Figure 2  
Standard precast element – semi-precast element

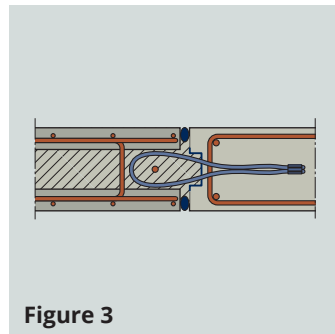


Figure 3  
Standard precast element – cast in-situ concrete

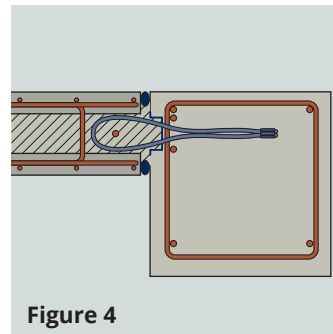





Figure 4  
Standard column – semi-precast element (also possible: column – cast in-situ concrete)

### Captions:

-  = Cast in-situ concrete/ precast element (concreted first)
-  = Cast in-situ concrete addition
-  = Double wall

## Use with angled wire rope loops

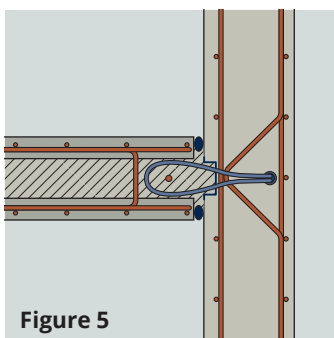


Figure 5  
T-joint precast element – semi-precast element (also possible: precast element – cast in-situ concrete)

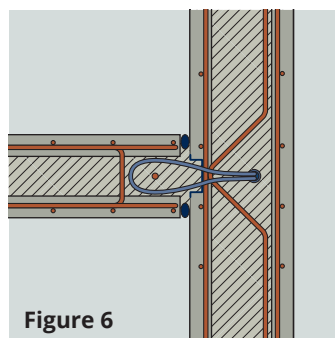


Figure 6  
T-joint semi-precast element – semiprecast element (also possible: semiprecast element – cast in-situ concrete)

Apart from the layouts shown wall-wall corner connections can also be implemented.

# FS-Box LIGHT



**PFEIFER**

**Connection System**  
**FS-Box LIGHT**

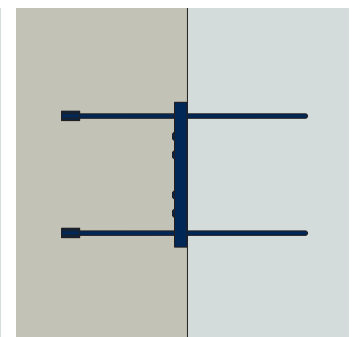
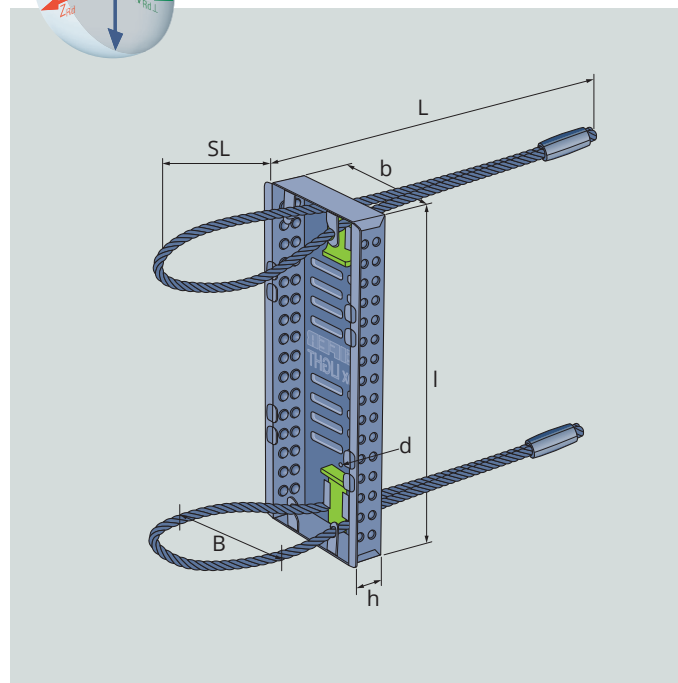
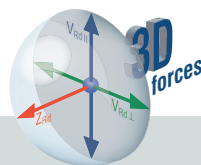
The PFEIFER FS Box LIGHT is installed as a connecting element in cast in-situ concrete structural elements, in steel reinforced semi-precast elements or in completely precast elements. The box is intended to transmit forces from static and quasi-static loads.

**Advantages:**

- Robust steel box
- Non-directional installation necessary
- High design resistances (see following pages)

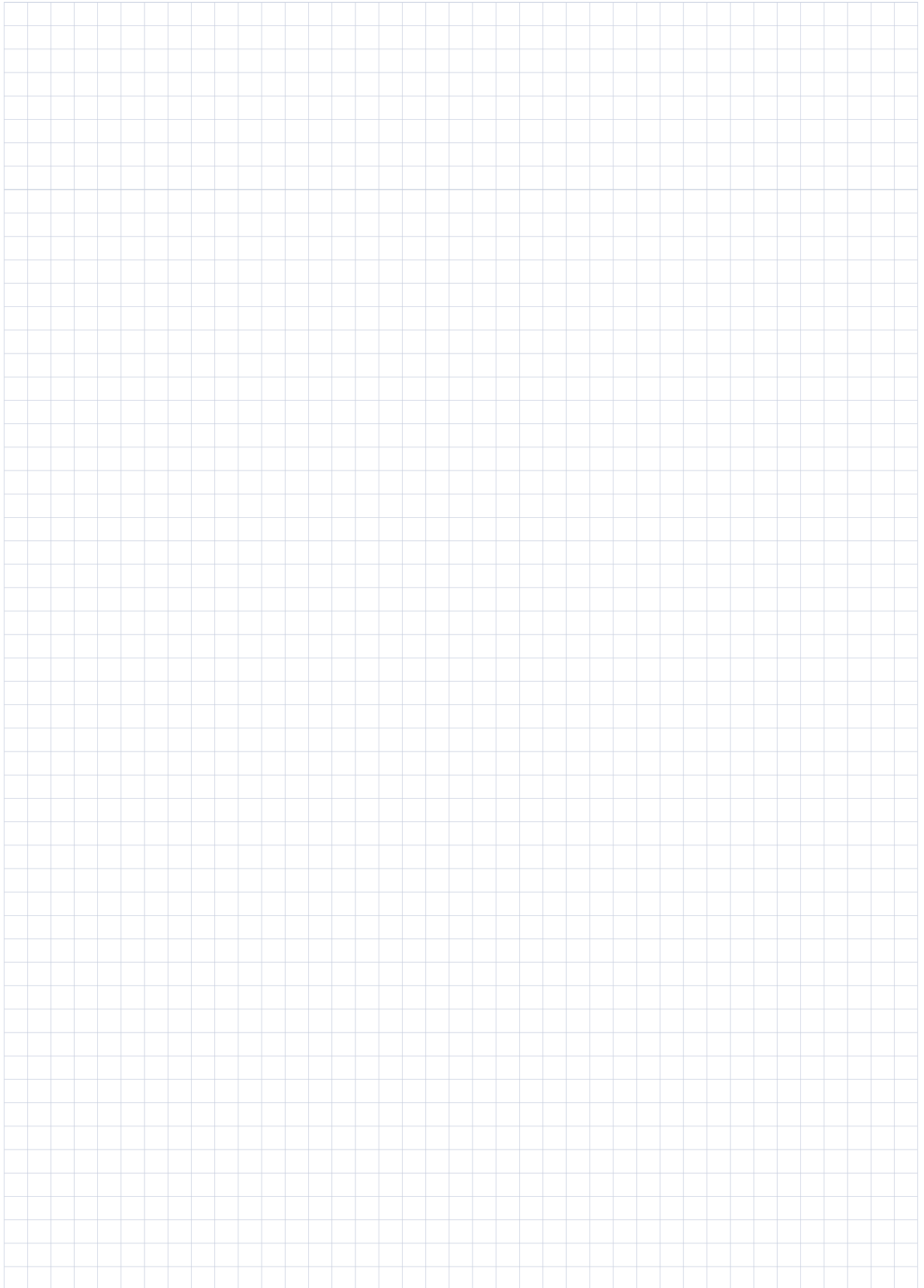
**Materials:**

Box: Steel sheet, galvanized  
Steel rope: high-strength, galvanized  
Ferrule: Special quality steel  
Loop cover: Tape



Ref. no.	Type	Dimensions							Colour clip	Weight approx. [kg/piece]
		b [mm]	I [mm]	h [mm]	d [mm]	L [mm]	SL [mm]	B [mm]		
378521	FS-Box LIGHT	80	220	25	3	217	100	75	Neon green	0,45

# Notice



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