



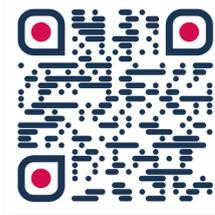
# Assembly instructions

May 2022 / Version 1.0

# Congratulations

on purchasing your **twall®**.

Please read the entire operator manual carefully before beginning assembly. Make sure all modules and components are present and complete by checking them against the delivery note. The current version of this user manual can be found at [twall.de/downloads](http://twall.de/downloads).



## 1. Table of contents

1	<b>Table of contents</b> .....	2
2	<b>Product description</b> .....	2
3	<b>Intended use</b> .....	2
4	<b>Hazard warnings</b> .....	3
5	<b>Safety notice regarding epilepsy</b> .....	3
6	<b>Installing the cabling</b> .....	4
7	<b>Assembling of the twall® S</b> .....	5
8	<b>Decommissioning &amp; disposal</b> .....	6
9	<b>Technical specifications</b> .....	6
10	<b>Manufacturer information &amp; service</b> .....	7

## 2. Product description

The **twall®S** is a transportable stand device, mainly used as an eye-catcher and meeting point at trade fairs, events and similar occasions. It can also be used as an interactive sports device that uses light pulses to generate specific movement sequences. Light fields are switched off by touch and thus spatial movements are predetermined. Depending on the training programme selected, fitness, agility, responsiveness and, if required, specific strength endurance can be trained. The various elements react either in a pre-programmed or random order, position and speed.

The **twall® S** has eight pre-installed programmes that can be selected on the tabletop by coloured light dots.

As an eye-catcher, the table base with integrated lighting is illuminated in colour from the inside depending on the game selected. If no game is being played, a pause programme runs to illuminate the table base.

The **twall®S** can be controlled via Android or iOS app, which are available in the respective app store.

## 3. Intended use

The **twall® S** is used exclusively to generate the stimulus of movement in people and to produce lighting effects. The operator is responsible for checking the suitability of the training programmes for the users.

Use of the **twall® S** in the home is not intended. Use for professional and/or commercial use by persons with special needs (e.g. visually impaired, hearing impaired, physically or mentally handicapped) is possible. Children under 14 years of age may only use the **twall® S** when accompanied by an adult supervisor.

There are no moving parts in the **twall® S**. The **twall® S** may be loaded with max. 20 kg, it is not suitable for standing on it or placing people on it (danger of tipping over)!

The **twall® S** must be set up as a free-standing unit on a stable and horizontal surface.

A supply voltage of 24V is required to operate the **twall® S**. A power supply unit is included in the scope of delivery. A power supply unit included in the scope of delivery provides this. The **twall® S** may only be operated with this power supply unit.

When setting up and operating the **twall® S**, the mains connection cable must not be damaged by sharp objects or edges. If the mains connection cable of this unit is damaged, it must be replaced by an identical connection cable available from the manufacturer or its customer service.

If the **twall® S** is damaged, the defective parts must be replaced immediately! This applies in particular to the impact bonnet (table surface).

Continuous operation of all light fields at maximum brightness is not permissible, as this can lead to strong heating of the LED modules. Game programmes that force individual or all light fields to be lit for longer than two minutes are not permitted and will void the warranty.

The **twall® S** may only be used in dry rooms after sufficient temperature equalisation - all system components should be at room temperature before being switched on.

The **twall® S** is not protected against water penetration!

Make sure that the **twall® S** is not soiled by oils, greases or similar substances.

The **twall® S** is not intended for recording and displaying measured values. It is not calibrated or calibrated..

## 4. Hazard warnings

Only operate a **twall®** when fully assembled.

To avoid injuries, always carry out assembly in the specified order! You will find a detailed description of this in the operator manual.

To avoid injuries (e.g. cuts or lacerations caused by machined surfaces), make sure to install the cover caps.

Check the stability of your **twall®** daily by checking that the installation elements are firmly seated.

To avoid electric shocks, check the power supply cable for damage before each use.

The mobile **twall®** may only be used with its original counterweights and supports.

The **twall®** can be used by children from 8 years of age and by people with reduced physical, sensory or mental abilities or lack of experience and knowledge, if supervised or instructed in the safe use of the device and if the hazards are understood. Keep unsupervised children away!

The **twall®** is not a climbing toy! Hanging or climbing on the frame is prohibited!

Standing behind the mobile **twall®** is only permitted for installation purposes.

The action area in front of the **twall®** must be free of obstacles and uneven surfaces to reduce the risk of falling.

In all cases, the operator is responsible for ensuring the stability of the device! Not intended for use in homes!

Make sure that the pre-assembly of the profile connectors is carried out precisely, to ensure the necessary strength and safety.

## 5. Safety notice regarding epilepsy

Flashing lights and patterns that occur during **twall®** exercises may trigger epileptic seizures in predisposed people. Even for players who have not previously experienced epileptic symptoms in response to light stimuli, there is a possibility of having a previously undiscovered predisposition to epilepsy.

If you have epilepsy, consult a doctor before using the **twall®**.

Parents should watch their children when the children are using the **twall®**. Interrupt the exercise if your child experiences one or more of the following symptoms:

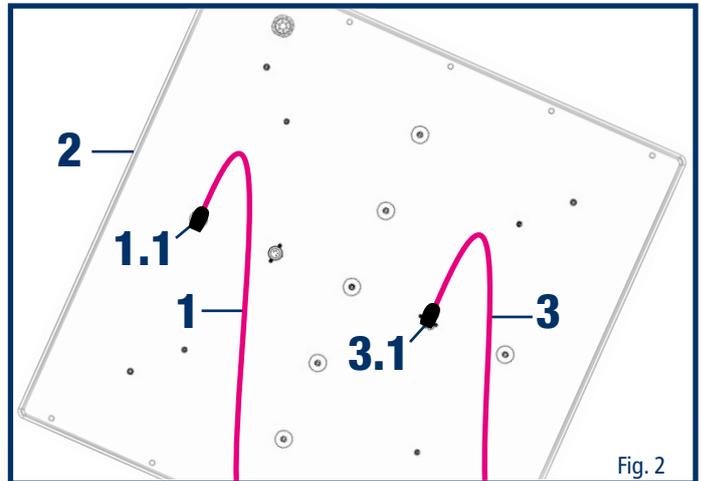
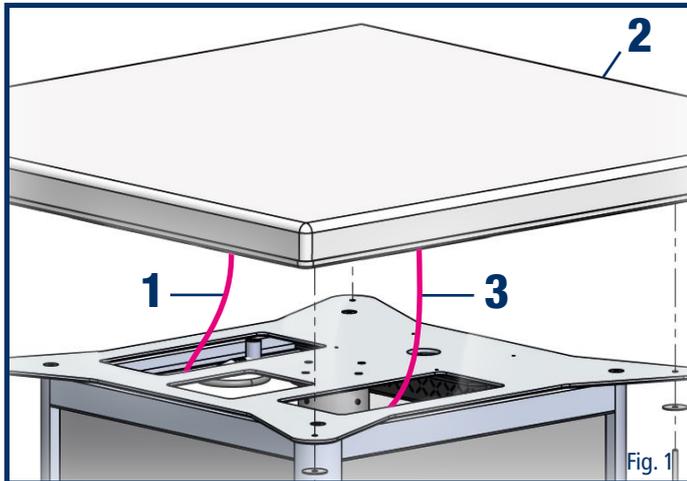
- Convulsions
- Eye or muscle spasms
- Loss of awareness of surroundings
- Altered vision
- Involuntary movements
- Disorientation

To minimise the risk of an epileptic seizure, please observe the following instructions:

- Do not exercise when exhausted or in need of sleep.
- Always exercise in a well-lit room.
- Take a 10-to-15 minute break every hour.

## 6. Installing the cabling

### 6.1. Cabling twall® S with light base



The following section explains how to route the cables for the twall® S (with light base). See Fig. 1 + Fig. 2.

Please connect 1x power CAN cable (1) with XLR socket 4pin (1.1) to the connector of the twall® module (2).

(Connection of the plug with control box **TWALL OUT** is already preconfigured so that wiring in the base is not necessary.)

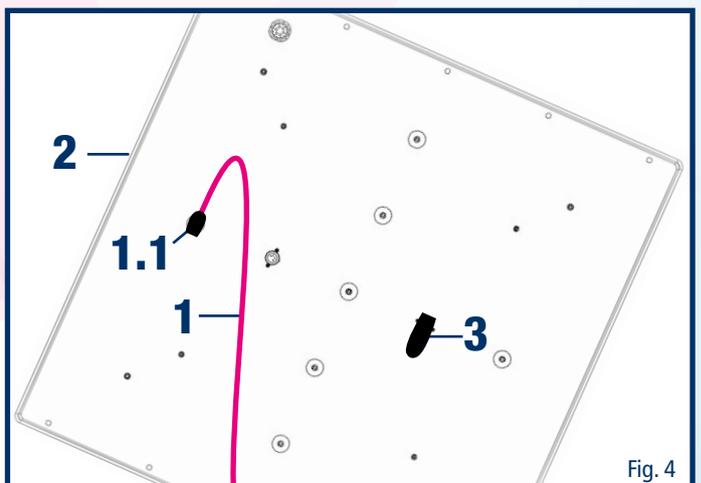
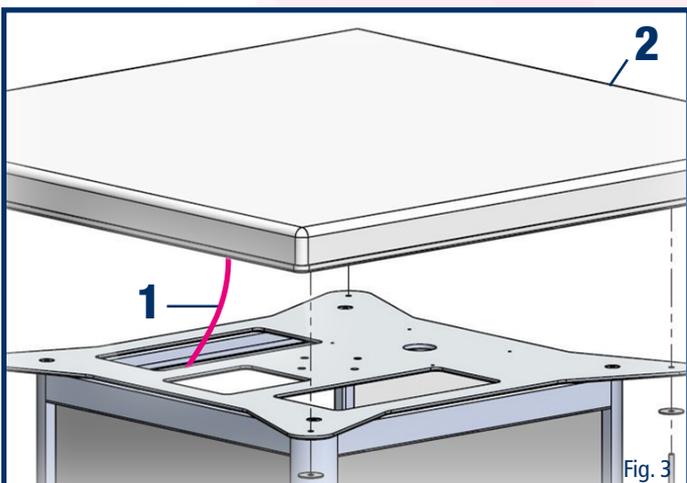
1x power CAN cable (3) with XLR plug, 4-pin (3.1)

Connect the plug (3.1) with the socket of the twall® module (2).

1x power cable with power supply unit adapter

Connect the power cable to the power supply unit at the lower foot end.

### 6.2. Cabling twall® S without light base



The following section explains how to route the cables for the twall® S (without light base). See Fig. 3 + Fig. 4.

Please connect 1x power CAN cable (1) with XLR socket 4pin (1.1) to the connector of the twall® module (2).

(Connection of the plug with control box **TWALL OUT** is already preconfigured so that wiring in the base is not necessary.)

1x terminating resistor (3)

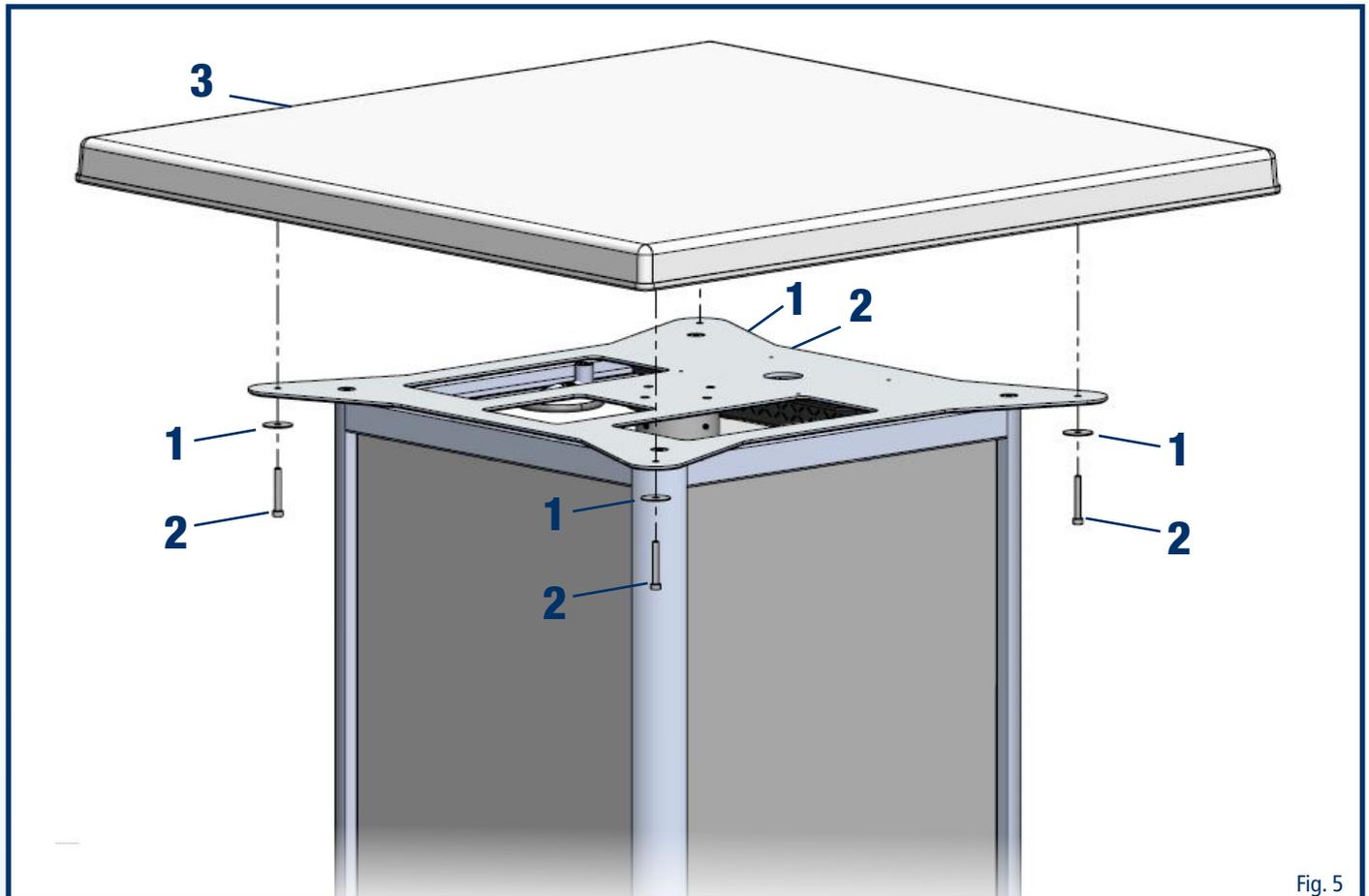
Plug the terminating resistor (3) into the socket of the twall® module (2).

1x power cable with power supply unit adapter

Connect the power cable to the power supply unit at the lower foot end.

## 7. Assembling of the twall® S

The twall® S is delivered already pre-assembled. Assembly is therefore identical for all variants.



4x washers (1)

4x screws (2)

Please screw the twall® Modul (3) to the base according to the illustration (Fig. 5).



### Cabling completed?

**Please connect all cables (see page 4) before you continue to assemble the twall® module.**

## 8. Decommissioning & disposal

This section contains all information regarding temporary and permanent decommissioning as well as environmentally responsible disposal.

If you would like to dispose of the twall® or parts thereof, please get in touch with us at IMM electronics GmbH. We are happy to help you dispose of the machines in compliance with the law.

The components of machines and systems are reusable materials. In accordance with the WEEE Directive 2012/19/EU (Waste Electrical and Electronic Equipment Directive), they must be returned to the reusable materials cycle.

Electric shock hazard!

Only disconnect the power supply with the control box switched off and disconnected from the energy supply as well as protected against being switched back on.

First de-energise the control box, then after switching it off, wait for a discharge time of 2 minutes before touching the terminals of the power supply.

## 9. Technische Daten

	Unit/dimension	
<b>twall® module</b>	Quantity	1
Material		MDF & PVC
Surface		PVC translucent white & PVC
Dimensions	W x H x D	900 x 900 x 600 mm
Weight	kg	25
Active play surface	W x H	880 x 880 mm
Resolution	Pads	6 x 6
Numbers of possible colours		more than 15 million
Power consumption with white light	Watts	max. 60
Power supply	Volts	24
<b>LED module</b> ( $I_{LED} = 20 \text{ mA}$ )		
Peak wavelength (blue)	nm	465
Peak wavelength (green)	nm	515
Peak wavelength (red)	nm	635
Dominant wavelength (blue)	nm	470
Dominant wavelength (green)	nm	520
Dominant wavelength (red)	nm	625
Peak luminous flux (blue)	lm	8
Peak luminous flux (green)	lm	36
Peak luminous flux (red)	lm	15

	Unit/dimension	
<b>Power adapter</b>		
- Primary		90-264 V AC; 47-63 H; IP22; Schutzklasse I; Energieeffizienz V
- Secondary		24 V DC; 180 W
<b>CAN bus terminator</b>	Quantity	1
<b>twall® S base</b>		
Dimensions	W x H x D	640 x 1020 x 640 mm
Weight	kg	15

## 10. Manufacturer information & service

**IMM electronics GmbH**  
**Leipziger Straße 32**  
**09648 Mittweida**

**tel +49 3727 6205-80**  
**service@twall.de**

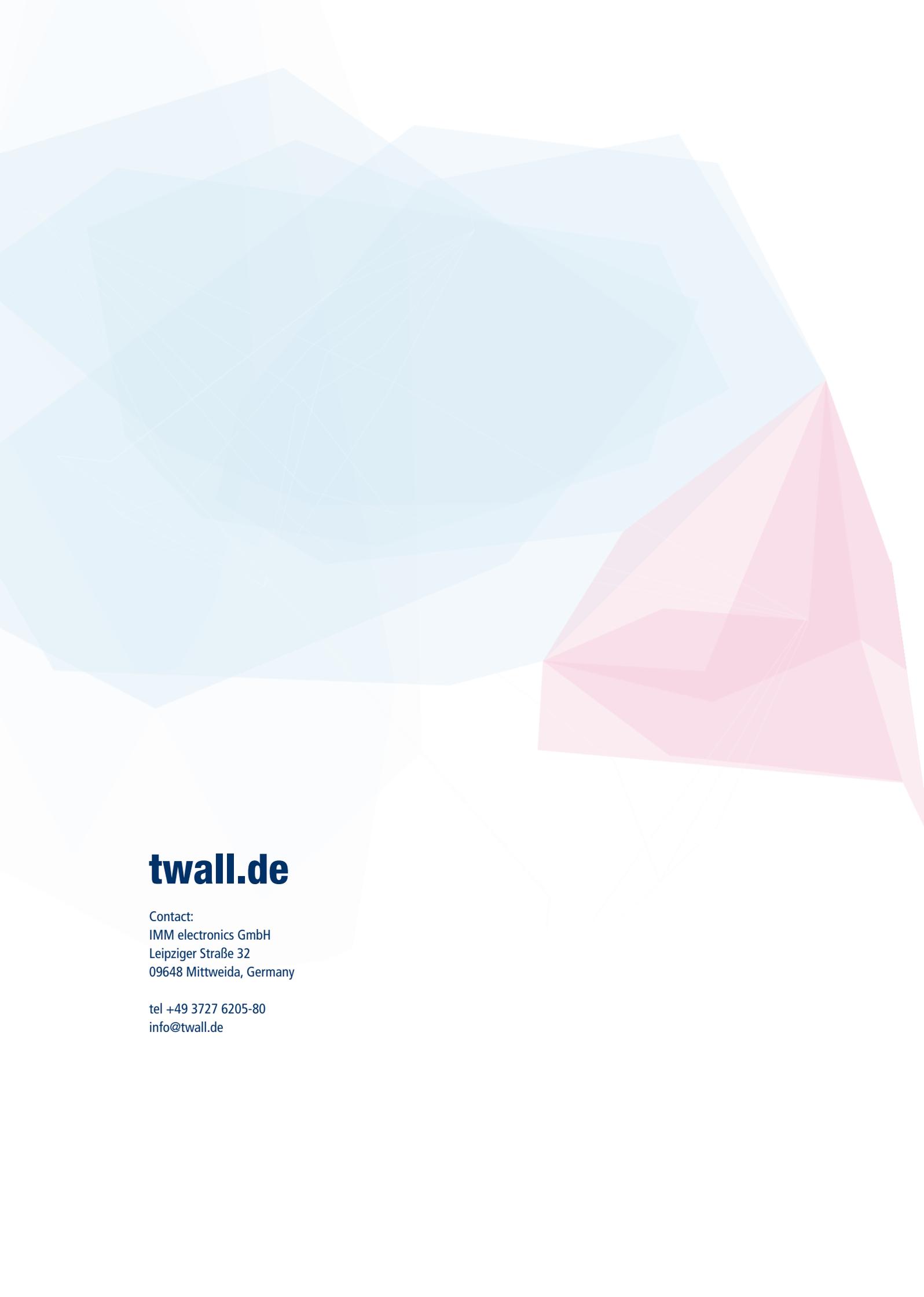
To open a service call, you will need to provide the following information:

- Customer number, telephone number, email address
- Information regarding the twall® model
  - > Version: S1
  - > twall® serial number

The dissemination and duplication of this documentation, and the exploitation of its content as well as the product-related software, are only allowed with the written permission of IMM electronics GmbH. All information in this documentation has been carefully checked. However, minor differences may arise due to technical improvements.

You can find the current version at: [www.twall.de](http://www.twall.de)

Subsequent deliveries of twall® modules may exhibit minor variations in the surface colour. This is a result of the production process and does not constitute a reason for complaint.



**twall.de**

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