KRAUSE

Ladder and scaffolding systems

Fixed Ladders

The new standard 18799-3:2021-02

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QUALITY Since 1900

The new standard
DIN 18799-3:2021-02
Fixed Ladder Systems for Construction Works – Safety Requirements and Tests – Part 3: Accessories
– now in force!

The new standard **18799-3:2021-02**

The changes in detail:

+ **DIN 18799-3:1999-08 has been withdrawn**
+ **The standard's partial division into DIN 18799-1:2009-05 and DIN 18799-2:2009-05 has been withdrawn**
+ **The new standard includes safety requirements and tests for access and working scaffolds**
+ **The new standard includes specifications for accessories for fixed ladder systems for construction works**

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This has led to the following additional requirements:

Stepping from the end of a fixed ladder onto a platform or roof

+ The exits of fixed ladders with a safety cage starting at 3 metres and fixed ladders with fall arresters have to be designed in such a way that users are protected at all times.
+ All fixed ladder exits have to be fitted with fall protection!
+ This protection has to either comprise 1,500 mm long guardrails measured from the centre of the fixed ladder fitted on both sides of the ladder or a single continuous guardrail along the route leading from the ladder exit to the exit area with a minimum length of 2,000 mm.

Safety and exit guardrail continued on the left and right

Ladder exit guardrail continued

Barriers

+ All openings in the guardrails (e.g. access point to the fixed ladder) have to be fitted with a barrier to prevent users from falling. This barrier must not open in the direction of an edge or drop.
+ The barrier must be easy to open and automatically close against a fixed stop.
+ The barrier also has to be fitted with at least one handrail and a knee rail.

Equipment for preventing unauthorised access

+ Fixed ladders have to be fitted with guards that prevent the fixed ladder from being climbed by unauthorised persons.

Walkways – platforms – fall protection

+ Walkways and platforms have to be fitted with safety equipment to protect users from falling. This safety equipment also has to be designed in such a way as to minimise the risk of objects falling from these structures. Walkways have to have a clear width of at least 500 mm, platforms have be at least 800 mm wide and 800 mm long. The surfaces have to be permanently slip resistant and have a minimum anti-slip rating of R10.
+ If the gap between a platform or walkway and a building is greater than 180 mm, it has to be secured with a guardrail. This guardrail has to be at least 1,100 mm high and feature a handrail, knee rail and toe board.
+ There is also a requirement to provide labels.

For the majority of existing fixed ladders, these requirements mean that they will have to be upgraded or replaced. Failure to do so might mean that existing ladders will be barred from further use when next inspected by an expert/qualified person within the context of the regular fixed ladder inspections.

Important things you need to know!

Construction works - definition

Construction works are works that are connected to the ground and built with building materials. A works is also considered to be connected to the ground if it rests on the ground as a result of its own weight or is able to move within limits on fixed tracks or if the works is mainly designed for stationary use (excerpt from the North Rhine-Westphalia State Building Regulations Bau0).

Standards DIN 18799-1 and -2 refer to fixed ladders on construction works. These fixed ladders are permanently connected to the works and are consequently and existing part of those construction works.

Exemptions for existing construction works (grandfather clause)?

the context of building regulations, the grandfather clause is always based on the original planning permission and only ceases to apply if existing structures fail to meet the latest safety regulations. The grandfather clause does not apply universally to buildings. Construction works that are protected under the grandfather clause may be subject to new standards where necessary in order to avoid significant risks to human life and health (excerpt from the Bavarian Building Regulations BayBauo). This is why all of the safety aspects (risk to human life and health) take precedence of the grandfather clause!
The builder / owner / operator of such construction works are responsible for ensuring that these works correspond to the state of the art.

The Workplace Ordinance (ArbStättV)

The Workplace Ordinance sets out the German occupational health and safety requirements. It also sets out the minimum requirements for the construction and operation of workplaces..
All fixed ladders that are used in an occupational context are subject to the Workplace Ordinance.

Transitional periods in accordance with the Workplace Ordinance

The transitional periods for older workplaces (i.e. existing ones covered by the grandfather clause) expired on 31.12.2020 and are not scheduled to be extended. The exception rules set out in Art. 8(1) of the Workplace Ordinance no longer apply and have not been replaced. The transitional periods in set out in Art. 8(1) of the Workplace Ordinance had been limited to a transition period of 17 years (2004 to 2021) and a fixed transitional period of five years (2016 to 2021). During this time, every company had the opportunity to adapt any buildings or organisational measures to meet the new requirements. When the grandfather clause ceases to apply on 01.01.2021, all workplaces will be subject to a uniform catalogue of requirements and have to provide the same level of protection.

KRAUSE has a range of cost-efficient solutions for helping you to upgrade your existing fixed KRAUSE ladders to meet the requirements of the latest version of DIN 18799-3:2021- 02.

KRAUSE also offers a range of universal solutions for the majority of fixed ladders made by other manufacturers.

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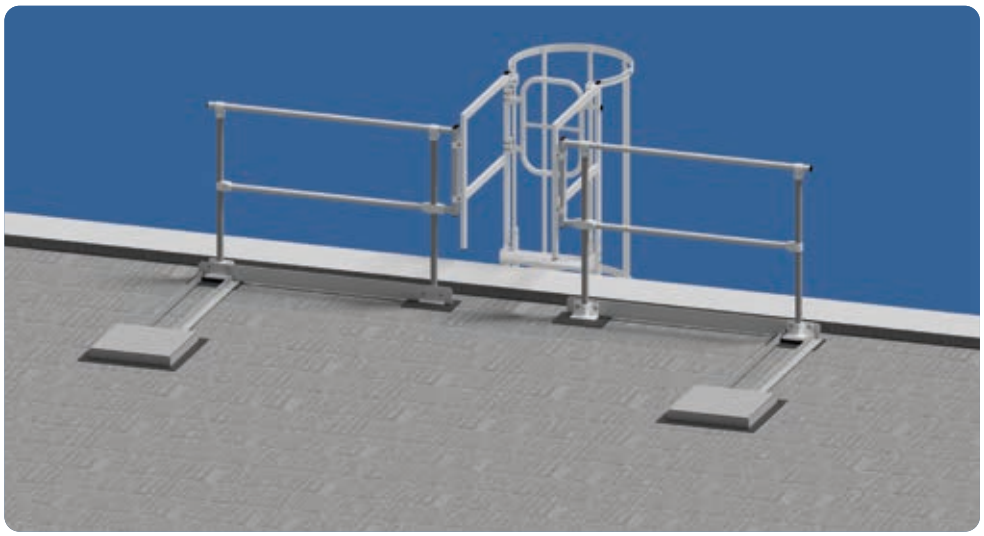
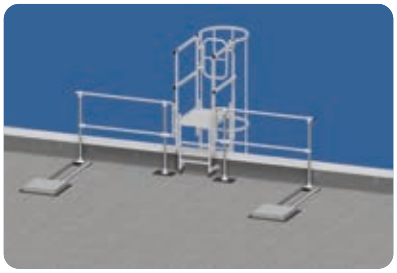
DIN 18799-3:2021-02-compliant **KRAUSE** accessories:

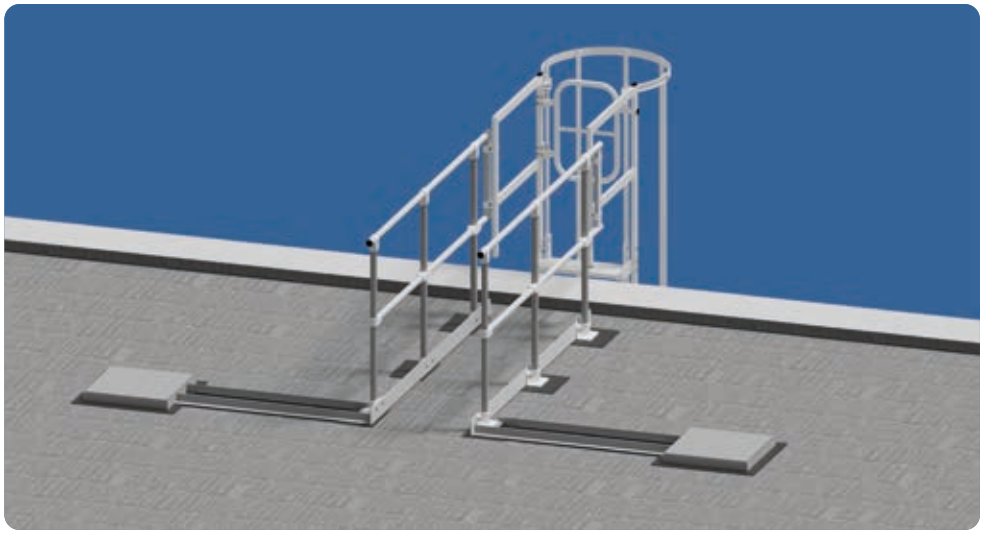
Universal solutions ...
... for almost all fixed ladder brands

Ladder Exit railing:



Ladder exit guardrail
left and right (min.1,500 mm from the centre of the fixed ladder)





Ladder exit guardrail
continued (min. 2,000 mm long)

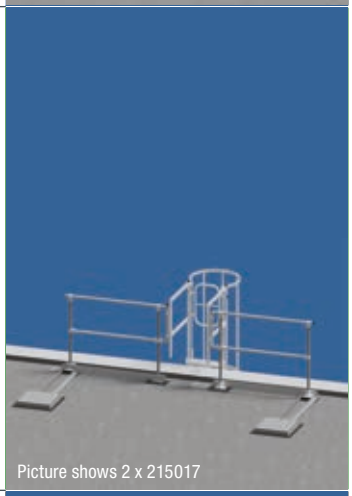
Access barriers and guards:

Access barrier

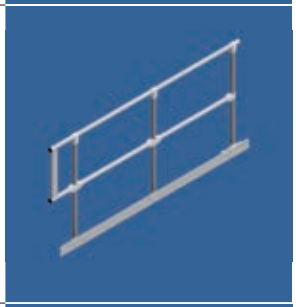
Security door (safety gate)

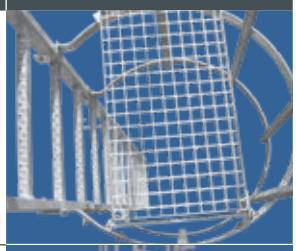
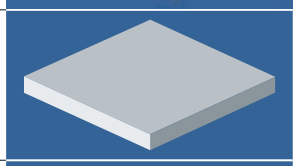
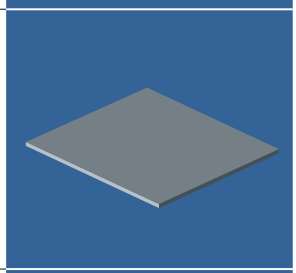
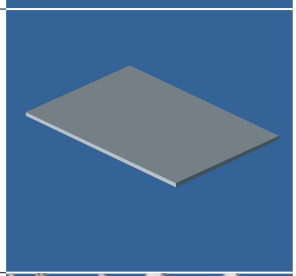
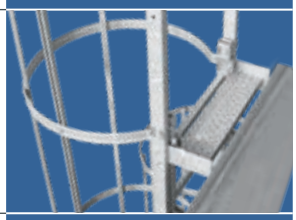
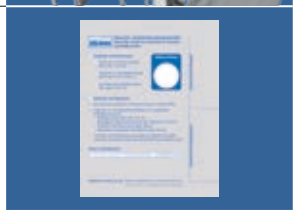
Transition barrier

Sets:

Art.-No.	Item name	Item Description	Drawing
215000	Set Ladder exit guardrail for fixed ladder, for fitting on left or right	Ladder exit guardrail for fixed ladders for connecting to parapet crossovers or exit guardrails. For roofs with an upstand of over 150 mm. Does not cause any damage to the roof cladding! **The set includes:** 1 Guardrail frame with handrail, knee board and connecting plate 2 Fasteners for KRAUSE ladder exit guardrail 1 Counterweight holder 3 Protective membranes 1 Counter weight The guardrail can be fitted on the left or right. **Please note that you will need 2 sets if you want to fit a guardrail on both the left and right.**	 Picture shows 2 x 215000
215017	Set Ladder exit guardrail for fixed ladder, for fitting on the left or right, with toe board	Ladder exit guardrail with toe board for fixed ladder for fitting as an parapet crossover or exit guardrail. For roofs without upstands. Does not cause any damage to the roof cladding! **The set includes:** 1 Guardrail frame with handrail, knee and toe board and connecting plate 2 Fasteners for KRAUSE exit guardrail 1 Counterweight holder 3 Protective membranes 1 Counter weight The guardrail can be fitted on the left or right. **Please note that you will need 2 sets if you want to fit a guardrail on both the left and right.**	 Picture shows 2 x 215017
215024	Set Ladder exit guardrail for fixed ladder, extra section with toe board for roof	Ladder exit guardrail for fixed ladders, single section, for roof. Guardrail frame for attaching to parapet crossover or exit guardrail. Does not cause any damage to the roof cladding! **The set includes:** 1 Guardrail frame with handrail, knee and toe board 3 Guardrail posts 1 Counterweight holder 4 Protective membranes 1 Counter weight The guardrail can be fitted on the left or right. **Please note that you will need 2 sets if you want to fit extra guardrail sections on both the left and right.**	 Picture shows 2 x 215024
215031	Set Ladder exit guardrail for fixed ladder, extra sections for fitting to the left and right on roof with counter-weights	Ladder exit guardrail, extra sections for fitting to the left and right of parapet crossovers with extra ballast acting as counterweights to the fixed ladder. Does not cause any damage to the roof cladding! If required because of conditions on site, the fixed ladder's top wall bracket can also be fitted lower on the wall. **The set includes:** 2 Guardrail frame 4 Counterweights incl. counterweight holders 4 Protective membranes 2 Diagonals	

System components:

Art.-No.	Item name	Drawing
215048	Exit railing for fixed ladder, 450 mm	
215055	Exit railing for fixed ladder, 750 mm	
215062	Exit railing for fixed ladder, 900 mm	
215079	Single exit railing for fixed ladder, sidewise. As a spare part or fastening on solid ground, Length approx. 1,500 mm	
215086	Single exit railing for fixed ladder, sidewise. As a spare part or fastening on solid ground, Length approx. 1,500 mm	
215093	Single exit railing for fixed ladder, continued on roof area. As a spare part or fastening on solid ground, Length approx. 2,000 mm	
215109	Counterweight for exit railing as spare part Length approx. 1,700 mm	
837028	Transition barrier Approx. 580 mm wide	

Art.-No.	Item name	Drawing
835475 **838124**	For steel galvanized For aluminum Rest platform foldable, can be locked with a U-lock (U-lock is not incl. in the delivery)	
837578	Safety door with transition barrier at the upper end. Adujstable connection parts towards the back protection cage prevent it from bumping against the wall.	
215246	Paving slap 500 x 500 x 50 mm 25 kg	
215253	Structure protection mat 625 x 615 x 8 mm Certified Structure protection mat, 8 mm thick, as a protection from mechanical damages of sealings and isolation in accordance to EN 18531, 18533, 18535 as well as the regulations for sealings (Guideline for flat roofs)	
215260	Structure protection mat 312.5 x 205 x 8 mm Certified Structure protection mat, 8 mm thick, as a protection from mechanical damages of sealings and isolation in accordance to EN 18531, 18533, 18535 as well as the regulations for sealings (Guideline for flat roofs)	
836267 **836274** **836281** **836298**	Exit step: 150mm 200mm 250mm 300mm	
835659	Marking plate Marking plate for fixed ladder according to the relevant NORM. Free surface for indicating labels „Next Inspection" and „Marking for Safety Rail and Fall Arresters".	

We are happy to arrange for these items to fitted by one of our KRAUSE installation partners and for your entire fixed ladder/fall protection equipment to be inspected (incl. regularly) by our KRAUSE experts.

I will be glad to be at your disposal for further questions:

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