

## Lamella wall system

### Technical field

5 The present invention relates to a lamella fixing system, and a method of installing a lamella.

### Background

10 Building walls may be clad, or covered, by an array of spaced apart lamellae, where a lamella is a longitudinal element of e.g. metal, plastic, composite, or a wood based material, such as wood veneered aluminum or wood fibers on composite. A lamella is also referred to as a rib or a batten, and any building wall or surface may be clad by the lamellae, including external and internal walls, dividers, ceilings, and floors. Lamella linings, or lamella walls, are known to provide walls with a particular decorative and aesthetic appeal, as well as walls providing particular acoustic damping.

15 For installation of the lamella wall, the lamellae are typically fixed to the supporting wall behind, by a fixing system. AU2018282353 [1] discloses a fixing system comprising a base track and a diecast clip with two profiles: a first profile which can be attached to the base track, and a second profile which the batten may subsequently be attached to.

20 The batten is attached to the second profile of the clip by use of a retainer element in the form of a spring wire or a wedge, which enables fastening of the batten to the clip.

25 The installation of a lamella wall including the fixing system, is typically complex, time consuming, and may require use of force fixing tools. Hence, improved simplicity and efficiency of the installation, e.g. installation with a reduced need for additional tools, are desirable.

### Summary

30 The present disclosure provides a lamella fixing system including a connector clip, which is simpler to manufacture and simpler to install, particularly without the use of additional tools. Hence, the present disclosure provides a simpler, more efficient and reliably installed lamella wall system.

35 The advantages are obtained by use of a connector clip for interconnecting the lamella and the supporting profile. The connector clip comprises, or preferably is made of a

steel sheet comprising a planar, longitudinal part, at least one rearward folded part for attachment to the supporting profile, and at least one forward folded part for attachment to a groove within the lamella. Hence, advantageously, the connector clip may be manufactured from a cut, one piece sheet by simple bending into a three dimensional shape, where the shape is configured for attachment to the supporting profile and the lamella. Particularly, the at least one forward folded part may be configured to be elastically compressed in the width direction, thereby forming an elastically stressed configuration facilitating easy, simple and robust detachably attachment of the lamella to the connector clip.

10

A first aspect of the invention relates to a lamella fixing system, comprising:

- at least one supporting profile,
- at least one lamella comprising a groove, and
- at least one connector clip for interconnecting the lamella and the supporting profile,

15

wherein the connector clip is made of a steel sheet comprising a planar, longitudinal part, at least one rearward folded part for attachment to the supporting profile, and at least one forward folded part for attachment to the lamella groove.

20

Advantageously, the first aspect relates to a lamella fixing system, comprising:

- at least one supporting profile,
- at least one lamella comprising a groove, and
- at least one connector clip for interconnecting the lamella and the supporting profile,

25

wherein the connector clip is made of a steel sheet comprising a planar, longitudinal part, at least one rearward folded part for attachment to the supporting profile, and at least one forward folded part for attachment to the lamella groove,

wherein the supporting profile is provided with a depression or an opening, such as a slit, in a front flange, and

30

the connector clip is provided with at least one further rearward folded part configured to engage with the depression or opening, such as a slit, of the supporting profile.

Hence, in accordance with the invention the connector clip advantageously furthermore includes at least one further rearward folded part with a spring function between a folded and less folded configuration.

35

A second aspect of the invention relates to a method of installing a lamella, comprising the steps of:

- 5 (a) providing a lamella fixing system comprising at least a supporting profile, a lamella comprising a groove, and a connector clip made of a steel sheet, comprising a planar, longitudinal part, at least one rearward folded part, and at least one forward folded part, (b) attaching the rearward folded part of the connector clip to the supporting profile, (c) slidably attaching the lamella groove to the forward folded part of the connector clip by force, thereby elastically compressing the forward folded part in a direction  
10 perpendicular to the longitudinal direction.

In a preferred embodiment of the second aspect, the lamella fixing system is the system according to the first aspect. Hence, advantageously the second aspect relates to a method of installing a lamella, comprising the steps of:

- 15 (a) providing a lamella fixing system according to the first aspect, (b) attaching the rearward folded part of the connector clip to the supporting profile, (c) slidably attaching the lamella groove to the forward folded part of the connector clip by force, thereby elastically compressing the forward folded part in a direction perpendicular to the longitudinal direction  
20

### Description of Drawings

The invention will in the following be described in greater detail with reference to the accompanying drawings.

25 Figure 1 shows an embodiment of a lamella wall according to the present disclosure in perspective view (upper figure), and line drawing (lower figure).

Figure 2 shows an embodiment of the installation of the supporting profiles according to the present disclosure.

30 Figure 3 shows an embodiment of the mounted supporting profiles according to the present disclosure, where the wall comprises acoustic panels, in perspective view (upper figure), and line drawing (lower figure).

Figure 4 shows an embodiment of the connector clip according to the present disclosure, attached to a supporting profile, as viewed from the front side of the wall, in perspective view (upper figure), and line drawing (lower figure).

Figure 5 shows an embodiment of the connector clip according to the present disclosure, attached to a supporting profile, as viewed from the front side of the wall, in perspective view (upper figure), and line drawing (lower figure).

5 Figure 6 shows an embodiment of the connector clip according to the present disclosure, attached to a supporting profile and a lamella, as viewed from the front side of the wall, in perspective view (upper figure), and line drawing (lower figure).

Figure 7 shows an embodiment of the connector clip according to the present disclosure, attached to a supporting profile and two lamellae, as viewed from the rear side of the wall, in perspective view (upper figure), and line drawing (lower figure).

10 Figure 8 shows an embodiment of the connector clip according to the present disclosure as seen from the rear side in perspective view to the left and rear side view to the right.

Figure 9 shows the embodiment in fig. 8 of the connector clip according to the present disclosure as seen from the front side in front side view to the left and perspective view to the right.

15 Figure 10 shows a preferred embodiment of the connector clip according to the present disclosure as seen from the rear side in perspective view to the left and rear side view to the right.

Figure 11 shows the embodiment in fig. 10 of the connector clip according to the present disclosure as seen from the side.

20 Figure 12 shows the embodiment in figs. 10 and 11 of the connector clip according to the present disclosure as seen from the front side in front side view to the left and perspective view to the right.

Figure 13 shows an embodiment of a cut steel sheet for manufacturing the connector clip as seen in figs. 8-9.

25 Figure 14 shows an embodiment of a cut steel sheet for manufacturing the connector clip as seen in figs. 10-12.

Figure 15 shows another embodiment of the connector clip according to the present disclosure, where (A) shows the clip as seen from the front side in perspective view, and (B) shows the clip as seen from the rear side in perspective view.

30 Figure 16 shows an embodiment of the connector clip according to the present disclosure being attached to a supporting profile, and a lamella being attached to the connector clip.

35 Figure 17 shows an embodiment of the supporting profile according to the present disclosure, which is (B) asymmetric U-shaped, or (A) H-shaped in cross-section.

**Detailed description**

The invention is described below with the help of the accompanying figures. It would be appreciated by the people skilled in the art that the same feature or component of the device are referred with the same reference numeral in different figures. A list of the reference numbers can be found at the end of the detailed description section.

*Lamella fixing system*

Figure 1 shows an embodiment of a lamella wall, where multiple lamellae **1** are fixed to a supporting wall **2** behind, by a fixing system according to the present disclosure. The fixing system comprises connector clips **6** interconnecting each lamella to a supporting profile **4**, where the supporting profile may be fixed directly onto the wall surface, or alternatively mounted onto wall profiles **3** fixed to the wall. Figure 1 shows an embodiment of the fixing system comprising horizontally oriented supporting profiles **4**, mounted onto vertically oriented wall profiles **3**.

From Figure 1 it is further seen that the lamellae are covering the wall surface behind, and the side of the lamellae facing the viewer or room, is also referred to as the front side or forward side, and the side of the lamellae facing the wall behind is also referred to as the rear side/backward side.

Figure 2, the inserted detailed figure, shows an embodiment of the installation of the supporting profiles **4** according to the present disclosure, when the supporting profiles are mounted to a wall profile **3**. Advantageously, the supporting profile comprises a front flange **4a** extending parallel to the wall surface, and at least one fastening element **4b** for attachment to the supporting wall. Advantageously, the fastening element is in the form of a wall mounting flange, e.g. a rearward extending flange as shown in Figure 2, extending perpendicular to the front flange, such that the supporting profile is T-shaped or asymmetric T-shaped as seen in cross-section. The supporting profile may thus be simple, easy, and manually installed, by slidingly inserting the rearward extending flange into a slit of the wall profile, as illustrated in the insert of Figure 2. For further stable installation, the rearward extending flange and the wall profile slit may be configured to form a form-fit or snap-fit attachment upon complete insertion/receival of the flange, such that complete insertion/receival is audible, e.g. by

a click, or easily visibly seen. Alternatively, or additionally, the supporting profile may comprise a rear flange extending in parallel with the front flange, such that it has a H-shape or U-shape, or asymmetric H-shape or U-shape, as seen in cross-section or profile. Examples of a profile with an asymmetric H-shape and U-shape is illustrated in  
5 respectively Figures 17A and 17B. This has the advantage that the rear flange may be mounted directly to a wall surface by fastening means, such as nails, screws, bolts, and/or dowels.

In an embodiment of the disclosure, the supporting profile comprises a front flange in  
10 parallel to the wall surface, and at least one fastening element for attachment to a supporting wall. In a further embodiment, the fastening element is a rearward flange extending perpendicular to the front flange, such that the supporting profile is T-shaped or asymmetric T-shaped in cross-section. In a further embodiment, the supporting  
15 profile comprises a rear flange in parallel with the front flange, such that the supporting profile is H-shaped or U-shaped in cross-section

The asymmetric T-shaped, U- or H-shaped supporting profile further has the advantage of facilitating the installation of acoustic panels. Acoustic panels are slab shaped  
20 elements placed between the supporting wall and the lamellae, which provide additional acoustic damping/improvement, and which may further be decorative, since the front side of the panel will be visible between neighbouring lamellae. Figures 1 and 3 show embodiments of lamella walls, comprising acoustic panels **5**. An example of an acoustic panel is a stone wool slab, optionally provided with a coloured fleece on the  
25 front surface.

The acoustic panel **5** is installed between two neighbouring supporting profiles, e.g. the upper and middle supporting profiles **4** shown in Figure 3. Both the upper supporting profile and the middle supporting profile have an asymmetric T-shape in cross-section, and are oriented in the same direction as shown in Figure 2, such that the front flange  
30 **4a** has a lower front part and an upper front part separated by the fastening element, where the lower part is vertically longer than the upper part. The dimensions of the acoustic panel is configured such that the panel may be simply and manually mounted between the neighbouring supporting profiles by first arranging the upper edge of the acoustic panel behind the lower part of the front flange of the upper supporting profile,  
35 and then the lower edge of the acoustic panel may be moved above the upper part of

the front flange of the lower supporting profile, and then slid down or dropped down behind the upper part of the front flange of the lower supporting profile, such that the lower edge of the panel is abutting the rearward extending flange of the lower supporting profile. The dimensions of the acoustic panels further ensure that the panel is fixed in parallel to the wall behind by the front flanges of the lower and upper supporting profiles. The installation of an acoustic panel **5** is also shown in Figure 17, where the supporting profiles comprises a rear flange in parallel with, and mounted on a wall surface, and where the upper supporting profile has an asymmetric U-shape in cross-section, and the lower supporting profile has an asymmetric H-shape. The panel is simply and manually mounted between the upper and lower supporting profiles by first arranging the upper edge of the acoustic panel behind the lower part of the front flange of the upper supporting profile (indicated by the upper arrow in Figure 17C), and then the lower edge of the acoustic panel may be moved above the upper part of the front flange of the lower supporting profile (indicated by the lower arrow in Figure 17C), and then slid down or dropped down behind the upper part of the front flange of the lower supporting profile, such that the lower edge of the panel is abutting the rearward extending flange of the lower supporting profile.

It follows that the lamella fixing system advantageously comprises at least three parts: at least one supporting profile, at least one lamella, and at least one connector clip for interconnecting the lamella and the supporting profile. However, a connector clip may alternatively be adapted for attachment directly onto a wall surface, or adapted for fastening to the wall surface by other means than a supporting profile, e.g. by use of nails, screws, or glue.

Hence, a preferred embodiment of the disclosure relates to a lamella fixing system, comprising:

- at least one supporting profile,
- at least one lamella comprising a groove, and
- at least one connector clip for interconnecting the lamella and a supporting wall,

wherein the connector clip is made of a steel sheet comprising a planar, longitudinal part, at least one rearward folded part for attachment to a supporting wall, and at least one forward folded parts for attachment to the lamella groove.

*Connector clip*

Figures 4-5 show embodiments of the lamella fixing system and the connector clip **6**, where the clip **6** is attached to a supporting profile **4**, as viewed from the front side of the wall. Specifically, Figure 5 shows a corner assembly without lamellae (from the front side). The first/last lamella will eventually cover the assembly, the vertical rail/wall support and edge of the absorbent/acoustic panel. Figure 6 shows an embodiment of the connector clip **6** attached to both a supporting profile **4** and a lamella **1**, as seen from the front side of the wall. As most clearly seen in Figure 6, the connector clip **6** comprises a planar, longitudinal part partially abutting the front flange of the supporting profile **4**, and then the rearward side of the clip **6** engages with the supporting profile **4**, and the front/forward side of the clip engages with the lamella groove.

Specifically, the rearward side of the clip **6** engages with the supporting profile **4** via at least one gripping flange or gripping finger, which is folded over the upper edge of the front flange **4a** of the supporting profile **4**, as indicated in Figure 6. The gripping flange has the advantage that the clip may be detachably attached to the supporting profile **4**, and hence easily mounted or dismounted by manual force. In addition or alternatively, the clip may be detachably attached to the supporting profile, such that the clip is dismounted from the supporting profile by use of a tool. The tool may be configured such that the shape of the clip is easily maintained and/or restored upon dismounting.

The front side of the clip **6** engages with the lamella groove via a compressive front flange having a width which is larger than the opening width of the lamella groove. For example, the compressive flange may comprise two compressive flanges **65**, **75** separated by a gap as shown in Figures 6 and 8-12. Alternatively, the two compressive flanges **85** may have a folded portion abutting each other, as shown in Figure 15. Due to the width, the compressive flange(s) **65**, **75** are adapted to form a spring force connection to the lamella groove. This means that the compressive flange(s) **65**, **75**, **85** exert a pressure on the lamella groove, thereby fixing the lamella to the clip. The spring force connection may be obtained by elastic compression and deformation of the compressive flange **65**, **75**, **85** upon inserting the flange into to the groove. The compressed flanges form an elastically stressed configuration, exerting a force towards the lamella groove as the flanges try to recoil to the non-stressed configuration. For example, as shown in Figures 6 and 8-12, the two compressive flanges **65**, **75** may be elastically compressed in the width direction such that the gap between them is reduced, i.e. the flanges are compressed in a direction perpendicular to the longitudinal

direction of the clip, when inserted into the groove. It follows that a similar effect may be obtained with a single compressive flange with a comparable width as the two compressive flanges **65, 75**. Alternatively, the two compressive flanges **85** are abutting along a folded portion, as shown in Figure 15, and only the part of the flanges in the width direction, which is in contact with the groove edges are compressed in the width direction or the direction perpendicular to the longitudinal direction of the clip, when inserted into the lamella groove.

In an embodiment of the disclosure, the at least two forward folded parts are configured such that a folded portion is abutting each other.

Further advantageously, the at least one forward folded part includes an inclined plane at the edge of the width, where the plane has an inclination below 90 degrees relative to the planar, longitudinal part, as seen in Figure 6 or Figure 15. Thus, the edge of the forward folded part may form a barbed engagement to the lamella groove in the width direction, and facilitate a more smooth insertion of the clip into the lamella groove.

The spring force connection between the lamella and the clip, as well as the inclined edge of the connector clip width, facilitate that the lamella may be detachably attached to the connector clip, and easily mounted by forcing the lamella against the clip using manual force.

In an embodiment of the disclosure, the connector clip, and hence the lamella fixing system, comprises at least one forward folded part configured to be elastically compressed in the width direction, thereby forming an elastically stressed configuration. In a further embodiment, the at least one forward folded part of the connector clip comprises an inclined plane.

Preferably, the inclined plane is part of the compressive flange **65, 75, 85**, such as part of the front side of the compressive flange. Thus, advantageously, the compressive flange comprises a V-shaped profile or skew V-shaped profile, as seen in cross section. Preferably, the V-shaped profile is skewed towards the lamella groove, or the front side of the clip, as most clearly seen in Figure 15. This has the advantage of facilitating a sliding installation into the lamella groove, and a more robust and stable attachment to the lamella groove. In a preferred embodiment, the skew V-shaped

profile is configured such that the lamella is fixedly attached, meaning that a subsequent detachment of the lamella will cause the V-shaped profile to be distorted, such that the profile is suitable for only one-time lamella attachment.

5 In a further embodiment of the disclosure, the at least two forward folded parts comprises a compressive flange configured to be pressed towards each other upon slidingly forced attachment to the lamella groove. In a further embodiment, the compressive flange has a V-shaped profile, or a skew V-shaped profile. In a further embodiment, the V-shaped profile is skewed towards the lamella groove.

10

The connector clip may advantageously be manufactured from a single piece of steel sheet, which is cut and bend into a three-dimensional shape. Hence, the connector clip may be manufactured in a simple and cost-efficient way, and without the requirement of additional connector parts for performing the installation. Additionally, the installation  
15 may be carried out first by attaching the connector clip gripping flange to the supporting profile, and then attaching the lamella to the connector clip compressive flange **65, 75, 85** where both steps may be done by use of manual force and without additional tools.

Figures 13 and 14 show embodiments of a cut steel sheet before it is bend into a three-  
20 dimensional shape, and Figures 8-9 and 10-12 show embodiments of the connector clip after cutting and bending, the cut steel sheet shown in fig. 13 being bend into the connector clip shown in figs. 8-9, and the cut steel sheet shown in fig. 14 being bend into the connector clip shown in figs. 10-12. The connector clip comprises a planar, longitudinal part for abutting the front flange **4a** of the supporting profile **4**, which is the central part of the sheets shown in Figures 13 and 14 and which is not bend. The  
25 connector clip further comprises two rearward folded parts, shaped by bending the sections indicated as **61, 61', 71, 71'** in Figures 13 and 14 towards a first side, i.e. the rear side, of the clip. The rearward folded parts are bend such that the sections form a gripping flange or gripping finger, for detachable attachment to the supporting profile.

30 The connector clip further comprises two forward folded parts **63, 73**, shaped by bending the sections indicated as **63, 74** in Figures 13 and 14 towards a second side, i.e. the front side, of the clip. The forward folded parts are bend such that the sections form a compressive flange **65, 75** for forming a detachably spring force attachment to the lamella.

35

An aspect of the disclosure relates to a connector clip for a lamella fixing system and suitable for interconnecting a lamella and a supporting profile, comprising a steel sheet comprising a planar, longitudinal part, at least one rearward folded part for attachment to a supporting profile, and at least one forward folded part for attachment to a groove within a lamella, wherein the least one forward folded part is configured to be elastically compressed in the width direction, thereby forming an elastically stressed configuration.

For stable and reliable installation of the connector clip to a supporting profile and a lamella, the connector clip advantageously has certain dimensions. Advantageously, the length of the planar part is between 2 - 8 cm, more preferably between 3 - 6 cm, such as 4 cm. Further advantageously, the width of the planar part is between 0.5 - 3 cm, more preferably between 0.8 - 2 cm, such as 1 cm. Further advantageously, the forward folded part extend between 5 – 20 mm in the depth direction, i.e. the direction perpendicular to the planar, longitudinal part, more preferably between 7 – 15 mm, and most preferably between 8 – 12 mm, such as 10 mm.

To obtain an efficient spring force connection, and ensure stable and efficient attachment to the supporting profile, as well as stable and efficient attachment to the lamella groove, the connector clip is advantageously made of a steel sheet, and preferably is made of spring steel sheet. Spring steel sheet has the advantage of being particularly elastically compressive, i.e. the shape of a folded sheet may be compressed, e.g. further folded, to an elastically stressed configuration, and the elastic forces will act as a spring force to recoil or unfold towards the non-stressed configuration. In addition to the steel material, the elastic spring force will depend on the sheet thickness. If the thickness is too large, the flexibility is reduced, and if the thickness is too small, the folded sheet becomes mechanically unstable and may kink or break. Sufficient strength and elastic spring forces are efficiently obtained for steel sheet thickness of between 0.2 – 1.8 mm.

In an embodiment of the disclosure, the steel sheet is a spring steel sheet. In a further embodiment of the disclosure, the thickness of the steel sheet is between 0.2 – 1.8 mm, more preferably between 0.3 – 1.5 mm, and most preferably between 0.3 – 1 mm, such as 0.4, 0.5 or 0.7 mm.

The connector clip according to the present disclosure is suitable for, and advantageously configured for the lamella fixing system according to the present disclosure.

5      *Connector clip front side*

The front side of the clip engages with the lamella groove via the at least one forward folded part, configured to be elastically compressed in the width direction, as described above. For further simple and easy installation, the clip preferably comprises two forward folded parts as shown in Figures 6 and 8-12 and 15. To further ensure stable and mechanical robust installation, the forward folded part(s) are configured to form a snap-fit attachment to the lamella. This may e.g. be obtained by the at least one or two forward folded parts **63, 64, 64', 74, 74, 74', 83**, wherein the folded section is folded such that it partially extends perpendicular to the planar, longitudinal part, and/or by a lamella with an undercut groove on the rear side that essentially fits onto the clip, as illustrated in Figure 7. Hence, the clip deforms and snap/click into the groove, when the lamella is forced against the clip.

In an embodiment of the disclosure, the connector clip comprises at least two forward folded parts configured to be pressed towards each other upon slidingly attachment to the lamella groove.

In another and further embodiment of the disclosure, the at least one forward folded part is configured to form a snap-fit attachment to the lamella groove.

25      In another and further embodiment of the disclosure, the lamella comprises an undercut groove.

30      For simple and flexible manufacture, the connector clip advantageously comprises symmetrical parts/sections and/or as few edges as possible. Hence, the two forward folded parts are advantageously symmetrical, and with similar dimensions as the planar, longitudinal part, as seen from the front side. Alternatively, the two forward folded parts have different lengths, and/or have different dimensions as the planar, longitudinal part, which may further improve the fixation of the lamella.

In an embodiment of the disclosure, the at least two forward folded parts are symmetrically positioned around the planar, longitudinal part. In a further embodiment, the at least two forward folded parts are placed centrally to the length of the planar, longitudinal part. In a further embodiment, the at least two forward folded parts have essentially the same length or a different length as the planar, longitudinal part.

To further ensure stable and mechanical robust installation and fixation of the lamella, the connector clip advantageously comprises at least one further or third and further forward folded part. Figures 9, 11, and 12 shows an embodiment of the further or third further forward folded part **64, 64', 74, 74'**. The further forward folded part may form a barbed engagement to the lamella groove, such as the rear surface of the lamella groove, thereby further increasing the attachment stability. Advantageously, the connector clip comprises four third and further forward folded parts **64, 64', 74, 74'**, as shown in Figures 8-12, such that the connector clip is mirror symmetrical, as seen from the front side, apart from the rearward flap **62, 72**.

In an embodiment of the disclosure, the connector clip comprises at least one further or third, further forward folded part configured to form a barbed engagement to the lamella groove. In a further embodiment, the connector clip comprises two or more third, further forward folded parts, preferably comprises four third, further forward folded parts, which are optionally symmetrically placed.

As seen in the embodiment of the connector clip in figs. 8 and 9, the four third and further forward folded parts **64, 64'** are located at the top and bottom edges of the clip. In the preferred embodiment of the connector clip shown in figs. 10-12 further forward folded parts **74'** are still located at the bottom edge of the clip, whereas the remaining further folded parts **74** are located around the middle part of the clip. In that regard the position along the longitudinal direction of the clip of the further forward folded parts **74, 74'** thereby substantially match the position of the rearward folded parts **71, 71'** – this is most clearly seen in the side view in fig. 11. This provides improved stability to the presently disclosed lamella system because the attachment points between the connector clip and the supporting profile on the rearward side of the connector clip will then match the stability points between the connector and a lamella element on the forward side of the connector clip.

35

Alternatively, or additionally, the further or third, further forward folded part **87** forms a barbed engagement to an edge surface of the lamella groove, as shown in Figure 15. Similar to the further forward folded parts **64**, **64'**, **74**, **74'** which form a barbed engagement to the rear surface of the lamella groove, as shown in Figures 9 and 12, the barbed engagement to the groove edge increases the attachment stability, and e.g. fixes the clip within the groove, and impedes movement of the clip along the groove. Particularly stable fixation may be obtained for a system comprising two further forward folded parts **87** forming a barbed engagement to both edge surfaces of the lamella groove, as shown in Figure 15.

In an embodiment of the disclosure, the at least one forward folded part comprises a further folded part configured to form a barbed engagement to the lamella groove. In a further embodiment, the system comprises two or more further or third, further forward folded parts, preferably two further forward folded parts. In a further embodiment, the further folded part forms a barbed engagement to one or more edge surface(s) of the lamella groove, and/or a rear surface of the lamella groove.

The connector clip front side may further comprise an aperture **88** positioned such that one or more of the rearward folded parts are visible through the aperture, when the connector clip is viewed from the front side. Hence, the attachment of the at least one rearward folded part to the supporting profile may be controlled and/or monitored through the aperture. Advantageously, a further rearward folded part **62**, **72**, **82** configured to engage with a feature of the supporting profile, such as a depression or a slit of the supporting profile front flange **4a**, is visible through the aperture. This may be obtained via rectangular aperture, as shown in Figures 9 and 12, or a circular aperture, as shown in Figure 15.

In an embodiment of the disclosure, the at least one forward folded part comprises an aperture positioned such that the further rearward folded part configured to engage with a depression of the supporting profile, is visible through the aperture. In a further embodiment the aperture is rectangular or circular,

In an embodiment of the disclosure, the front flange of the supporting profile comprises a depression or a slit, configured to engage with a further rearward folded part.

*Connector clip rear side*

For stable and mechanical robust installation and fixation of the connector clip to the supporting profile, the connector clip rear side advantageously comprises two rearward folded parts **61, 61', 71, 71', 81, 81'**. Hence, the rearward folded parts **61, 61', 71, 71', 81, 81'** may form two gripping flanges, or gripping fingers, that extend backwards and are configured to click around the upper and lower edges of the front flange of the supporting profile, as indicated in Figures 8, 10 and 11 and 15. Further advantageously, the rearward folded parts **61, 61', 71, 71', 81, 81'** are configured to form a snap-fit attachment to the supporting profile, e.g. by the at least two rearward folded parts **61, 61', 71, 71', 81, 81'** being folded such that they form opposing hooks. Hence, the two rearward folded parts comprises an upper rearward folded part **61, 71, 81**, and a lower rearward folded part **61', 71', 81'**. Hence, the connector clip deforms and snap-fits around the front flange of the supporting profile, when the clip is forced against the supporting profile.

In an embodiment of the disclosure, the connector clip comprises at least two rearward folded parts, such as an upper rearward folded part and a lower rearward folded part. In a further embodiment, the at least two rearward folded parts are configured to form a detachable snap-fit attachment to the supporting profile.

As seen in the embodiment of the connector clip in figs. 8 and 9 and 15, the at least two rearward folded parts **61, 61'** are being folded such that they form opposing hooks. This is also the case in the preferred embodiment of the connector clip shown in figs. 10-12, i.e. the at least two rearward folded parts **71, 71'** are being folded such that they form opposing hooks, and fig. 15 with the parts **81, 81'**. However, as also seen in figs. 10 and 11 and 15 the upper rearward folded part **71, 81** is provided with at least one additional fold such that the rearward folded part **71, 81** both points downwards toward the lower rearward folded part **71', 81'**, but ends up with pointing upwards. Hence, at least one of the two rearward folded parts **71, 71', 81, 81'** may comprise at least two folds, preferably two folds in the form of a concave fold and a convex fold. The two folds may provide more flexibility to the connector clip which can make attachment to the supporting profile easier. The terms "upper" and "lower" and "top" and "bottom" as used herein typically refer to the orientation shown in the present drawings. As also explained elsewhere the elements of the presently disclosed system can have any orientation in practical use.

The upwards fold(s) does not influence the strength of the snap-fit attachment to the supporting profile, but it makes it easier to disassemble the connector clip from the supporting profile, because the upwards end fold(s) of the upper rearward folding part

5 **71, 81** makes it easier to grab the part **71, 81** with a finger. As also seen in figs. 10 and 12 and 15 the upper folded part **71, 81** can also be provided with a hole **76** in the sheet, alternatively just a notch or indentation in the sheet, whereby an elongated tool or the like, such as a screwdriver, can be inserted from a front side of the connector clip, through the connector clip and into the hole **76** of the upper rearward folded part

10 **71** such that the tool can lift the rearward part **71**, whereby the connector clip can be disassembled from the front side of the connector clip, as illustrated in Figure 16. Hence, at least one of the two rearward folded parts may comprise a hole or notch or indentation configured such that the snap-fit attachment to the supporting profile can be disassembled by engaging said hole or notch or indentation with a protrusion tool viaa

15 front side of the connector clip.

For simple and flexible manufacture, the connector clip advantageously comprises symmetrical parts/sections and/or as few edges as possible. Hence, the two rearward folded parts are advantageously symmetrically positioned relative to the planar,

20 longitudinal part, as seen from the rear side, e.g. placed symmetric relative to the longitudinal centre-line or the transverse centre-line of the planar, longitudinal part. Hence, two rearward folded parts positioned with the same distance to the longitudinal centre-line, are centrally positioned relative to the length. For example, the two rearward folded parts **81'** may extend from the opposite edges of the planar,

25 longitudinal part, as shown in Figures 15-16.

In an embodiment of the disclosure, the at least two rearward folded parts are symmetrically positioned relative to the longitudinal centre-line of the planar, longitudinal part. In a further embodiment, the at least two rearward folded parts extend

30 from an edge of the planar, longitudinal part.

Alternatively, the at least two rearward folded parts are placed non-centrally to the length of the planar, longitudinal part, i.e. the two parts are placed at different distances to the centre-line of the longitudinal part, as illustrated in Figures 6 and 8-12. For

35 example as shown in Figures 6 and 8-12, the at least one rearward folded part **61', 71'**

extends from an edge of the planar, longitudinal part, while the second rearward folded part **61**, **71** extends from a central area of the planar longitudinal part, i.e. in the vicinity of the centre-line of the longitudinal part. This facilitates that the clip can be mounted on the supporting profile in two directions. This is possible since the gripping flanges or fingers on the rear side are arranged at the end of the clip and not centrally. In this way the same clip can be used in three situations: at an edge of the system with the finger end downwards (as shown in Figure 6, the clip to the left), at an edge of the system with the finger end upwards (cf. Figure 6, the clip to the right), at intermediate supporting profiles in either suitable direction (upwards and downwards) where two lamellae face each other end-to-end, as shown in Figure 7. Further advantageously, the clip may be used in the middle of a lamella. In this fourth situation, any orientation of the fingers may be applied depending on the surroundings. For example, the clip may be positioned in the middle of a lamella and at edges around power outlets, signs, or other parts that are integrated into the lamella wall.

In an embodiment of the disclosure, the at least two rearward folded parts are non-symmetrically positioned relative to the longitudinal centre-line of the planar, longitudinal part. In a further embodiment, the at least one rearward folded parts extends from an edge of the planar, longitudinal part.

The at least two rearward folded parts advantageously have different widths. For example, the lower rearward folded part **61'**, **71'** extending from the lower edge of the longitudinal part is advantageously wider than the upper rearward folded part **61**, **71** extending from the central area, as shown in Figures 8 and 10. The different widths facilitate that the wider part **61'**, **71'** may be hooked or attached onto the front flange of the supporting profile first, and then the less wide part **61**, **71** may be pressed onto the opposing side of the front flange of the supporting profile. Thus, the connector clip may be mounted onto the supporting profile by use of manual force. To further facilitate manual attachment of the clip to the supporting profile front flange, the rearward folded part extending from an edge of the planar, longitudinal part is advantageously wider than the rearward folded part extending from a central area.

In an embodiment of the disclosure, the at least two rearward folded parts have different widths. In a further embodiment, the rearward folded part extending from an

edge of the planar, longitudinal part is wider than the rearward folded part extending from a central area.

5 The front flange **4a** of the supporting profile may be provided with regularly spaced depressions or openings or slits **4c**, as illustrated in Figures 5, 16 and 17. Preferably, the depressions or openings are linear slits, which may be oriented perpendicular to the longitudinal supporting profile, as shown in Figure 5, or oriented parallel to the longitudinal supporting profile, as shown in Figures 16-17.

10 The rear side of the clip may further be provided with at least one further rearward folded part **62, 72, 82**, such as a third rearward folded part **62, 72, 82** e.g. in the form of a tongue, that fits into the slit **4c**. This facilitates that the distance between neighbouring clips and lamellae becomes identical. For example, the slits may be pre-positioned at a distance of preferably 60 mm, such that when neighbouring clips are  
15 inserted into the slits, the distance between the clips are identical. Advantageously, the further rearward folded part is engaging with a slit or depression within the supporting profile, preferably provided in the front flange **4a** of the supporting profile.

20 In an embodiment of the disclosure, the front flange comprises a depression or a slit, configured to engage with the at least one further rearward folded part with a spring function.

25 The tongue **62, 72, 82** of the clip may advantageously have a spring function, so that the clip may still be mounted on the supporting profile even though it is not aligned with a slit. Thus, the third rearward folded part **62, 72, 82** may be configured as a spring biased mechanism, which form a barbed engagement to the supporting profile when it is not aligned with a slit. Hence, the further or third rearward folded part may form a spring connection to the supporting profile, and the third rearward folded part thus have two configurations: a first configuration, where the rearward folded part is folded as-  
30 manufactured, and essentially non-stressed, and a second less folded configuration, where the rearward folded part is compressed against the supporting profile to be stressed as a spring. Hence, the first folded configuration, where the tongue is aligned and engages with the slit may also be referred to as a latched position or configuration. The second configuration, where the tongue is not aligned with a slit and instead is

compressed into a less folded configuration, may also be referred to as a primed position or configuration.

5 This further improves the flexibility of the installation, because the attachment of the lamellae are not restricted by the distance between the depressions or slits of the supporting profile. Hence, lamella walls with variable distance between the lamella are easily installed. Further, the spring function of the further rearward folded part further improves the attachment stability of the clip to the supporting profile, due to the barbed engagement obtained when the tongue is compressed against the supporting profile at  
10 a position, where it is not engaging with a depression, such as a slit. When the tongue is engaging with a depression or a slit, the spring force of the tongue is released or partly released.

15 In an embodiment of the disclosure, the connector clip comprises at least one further rearward folded part folded such that it has spring function and is further configured to engage with a depression of the supporting profile.

20 In an embodiment of the disclosure, the connector clip comprises a further or third rearward folded part for engagement with the supporting profile. In a further embodiment, the third rearward folded part is configured to form a barbed engagement to the supporting profile, and/or is configured to engage with an opening, such as a slit, of the supporting profile.

25 The further or third rearward folded part **62, 72, 82** are advantageously positioned between an upper rearward folded part **61, 71, 81**, and a lower rearward folded part **61', 71', 81'**. Hence, it may also be referred to as a middle rearward folded part, with a spring function and which is configured for engagement with a depression of the supporting profile.

30 In an embodiment of the disclosure, the further rearward folded part has a spring function between a folded and less folded configuration, and optionally the further rearward folded part with spring function comprises at least one middle or third rearward folded part configured for engagement with the depression or slit of the supporting profile. In a further embodiment, the middle rearward folded part is

configured to form a barbed engagement to the supporting profile, and/or configured to engage with an opening, such as a slit, of the supporting profile.

5 The spring function of the further rearward folded part, or the third or middle rearward folded part, is activated, when the tongue is compressed against the supporting profile at a position, where it is not engaging with a depression or slit. Advantageously, the spring function is obtained by the rearward folded configuration as obtained from the manufactured folding. For example, the further rearward folded part may comprise a linear hinge zone **62'**, **72'**, **82'** or folding line. The folding line may be vertically oriented  
10 **62'**, **72'**, as shown in Figures 8 and 10. Alternatively, or additionally, the further rearward folded part may be horizontally oriented **82'**, as shown in Figure 15. The folding line thus facilitates that the manufactured folded part is subjected to a spring force, by being reversed to the unfolded or primed pre-folded configuration, when the tongue is compressed against the supporting profile at a position, where it is not  
15 engaging with a depression or slit. To adjust the spring force of the further folded part, the hinge zone may comprise one or more strip-shaped elements, similar to a hinge, as shown in Figure 15.

20 In an embodiment of the disclosure, the further rearward folded part with spring function, comprises a hinged zone, such that the fold has spring function or is reversibly folded. In a further embodiment, the hinged zone is horizontally and/or vertically oriented relative to the planar, longitudinal part of the clip. In a further embodiment, the hinged zone comprises one or more strip-shaped elements.

25 To improve the stability of the clip attachment to the supporting profile, and particular reduce the risk of the clip being moved along the supporting profile, i.e. translated in the length direction of the supporting profile, the connecting clip advantageously comprises an additionally rearward folded part, which preferably is located to be a second middle rearward folded part **86**, as shown in Figure 15. The second rearward  
30 folded part advantageously comprises at least two legs or planes, oriented at an angle and with opposite slopes, such that the planes form a V-shape. The opposite slopes form opposite barbed engagement to the supporting profile, and hence reduce the risk of the clip being translated in any direction along the supporting profile.

In an embodiment of the disclosure, the system comprises a second middle rearward folded part configured to form a barbed engagement to the supporting profile. In a further embodiment, the second middle rearward folded part comprises two planes at an angle, optionally forming a V-shape.

5

#### *Installation*

The connector clip and lamella fixation system according to the present disclosure provide a cost-efficient installation without the requirement of additional connector parts, apart from the connector clip itself, or additional tools, and which advantageously are carried out by manual force. The fixation system is further compatible with auxiliary wall components, such as wall profiles **3** as shown in Figure 1, and outer frames **7** as shown in Figures 5-7. Alternatively, the fixation system may be installed without the used of wall profiles, i.e. the supporting profiles are mounted directly on the wall. In an embodiment of the disclosure, the fixation system comprises wall profiles.

15

Advantageously, the fixation system is provided as a kit of parts, and installed on-site. Further advantageously, the installed fixation system may be dismounted or dismantled without additional parts or additional tools, and by manual force. In addition or alternatively, the fixation system may be dismounted using one or more additional tools, e.g. a tool for dismounting the clip from the supporting profile. The tool may be configured such that the shape of the clip is easily maintained and/or restored upon dismounting.

20

An aspect of the disclosure relates to a method of installing a lamella, comprising the steps of:

25

- (a) providing a lamella fixing system comprising at least a supporting profile, a lamella comprising a groove, and a connector clip comprising a steel sheet, comprising a planar, longitudinal part, at least one rearward folded part, and at least one forward folded part,
- (b) attaching the rearward folded part of the connector clip to the supporting profile,
- (c) slidably attaching the lamella groove to the forward folded part of the connector clip by elastically compressing the forward folded part in a direction perpendicular to the longitudinal direction.

30

A further aspect of the disclosure relates to a kit of parts for a lamella wall, comprising: one or more supporting profiles, one or more lamellae, one or more connector clips, and optionally one or more wall profiles, wherein the parts are configured for installation according to the aspect above.

5

**Reference numbers**

- 1 – Lamella
- 2 – Supporting wall
- 3 – Wall profiles
- 10 4 – Supporting profile
- 4a – Front flange
- 4b – Rearward flange
- 4c – Opening or slit or depression
- 5 – Acoustic panel
- 15 6 – Connector clip
- 7 – Frame
- 61, 71, 81 – Upper rearward folded part
- 61', 71', 81' – Lower rearward folded parts
- 62, 72, 82 – First middle rearward folded part
- 20 62', 72', 82' – Hinged zone
- 86 – Second middle rearward folded part
- 63, 73, 83 – First and second forward folded part
- 87 – Further or third folded part of the forward folded part
- 64, 74 – Upper further forward folded parts
- 25 64', 74' – Lower further forward folded parts
- 65, 75, 85 – Compressive flange
- 76 – Hole in upper rearward folded part
- 88 – Aperture

30

**References**

[1] AU2018282353

**Items**

- The presently disclosed invention may be described in further detail with reference to
- 35 the following items.

1. A lamella fixing system, comprising:
  - at least one supporting profile (4),
  - at least one lamella (1) comprising a groove, and
  - at least one connector clip (6) for interconnecting the lamella and the supporting profile,wherein the connector clip is made of a steel sheet comprising a planar, longitudinal part, at least one rearward folded part (61,71,81,61',71',81') for attachment to the supporting profile, and at least one forward folded part (63,73,83) for attachment to the lamella groove.
2. The system according to item 1, wherein the steel sheet comprises spring steel or consists of spring steel.
3. The system according to any of the preceding items, wherein the thickness of the steel sheet is between 0.2 – 1.8 mm, more preferably between 0.3 – 1.5 mm, and most preferably between 0.3 – 1 mm, such as 0.4, 0.5 or 0.7 mm.
4. The system according to any of the preceding items, wherein the at least one forward folded part (63,73,83) is configured to be elastically compressed in the width direction, thereby forming an elastically stressed configuration.
5. The system according to any of the preceding items, comprising at least two forward folded parts.
6. The system according to item 5, wherein the at least two forward folded parts are configured to be pressed towards each other upon slidingly forced attachment to the lamella groove.
7. The system according to any of the preceding items, wherein the at least one forward folded part is configured to form a snap-fit attachment to the lamella groove.
8. The system according to any of items 5-7, wherein the at least two forward folded parts are symmetrically positioned around the planar, longitudinal part.
9. The system according to any of items 5-8, wherein the at least two forward folded parts are placed centrally to the length of the planar, longitudinal part.

10. The system according to any of items 5-9, wherein the at least two forward folded parts are configured such that a folded portion is abutting each other.
- 5 11. The system according to any of items 5-10, wherein the at least two forward folded parts comprises a compressive flange (65,75,85) configured to be pressed towards each other upon slidingly forced attachment to the lamella groove.
- 10 12. The system according to item 11, wherein the compressive flange (65,75,85) has a V-shaped profile, or a skew V-shaped profile.
13. The system according to item 12, wherein the V-shaped profile is skewed towards the lamella groove.
- 15 14. The system according to any of the preceding items, wherein the at least one forward folded part comprises an aperture (88) positioned such that the further rearward folded part (62,72,82) configured to engage with a depression of the supporting profile, is visible through the aperture.
- 20 15. The system according to item 14, wherein the aperture is rectangular or circular.
16. The system according to any of the preceding item, wherein the at least one forward folded part comprises a further folded part (87) configured to form a barbed engagement to the lamella groove.
- 25 17. The system according to any of the preceding items, further comprising at least one third, further forward folded part (87,64,74,64',74') configured to form a barbed engagement to the lamella groove.
- 30 18. The system according to item 17 comprising two or more third, further forward folded parts (87), preferably comprising two or four third, further forward folded parts (64,74,64',74'), which are optionally symmetrically placed.
- 35 19. The system according to any of items 16-18, wherein the further folded part (87) forms a barbed engagement to one or more edge surface(s) of the lamella groove, and/or a rear surface of the lamella groove.

20. The system according to any of the preceding items, comprising at least two rearward folded parts (61,71,81,61',71',81'), such as an upper rearward folded part (61,71,81) and a lower rearward folded part (61',71',81').
- 5 21. The system according to item 20, wherein the at least two rearward folded parts for attachment to the supporting profile are configured to form a detachable snap-fit attachment to the supporting profile.
- 10 22. The system according to any of items 20-21, wherein the at least two rearward folded parts are placed symmetrically or non-symmetrically relative to the longitudinal centre-line of the planar, longitudinal part.
- 15 23. The system according to any of the preceding items, wherein the at least one rearward folded parts (61',71',81') extend from an edge of the planar, longitudinal part.
24. The system according to any of items 20-23, wherein the at least two rearward folded parts extend from an edge of the planar, longitudinal part.
- 20 25. The system according to any of items 20-24, wherein the at least two rearward folded parts have different widths, preferably wherein the at least one rearward folded part extending from an edge of the planar, longitudinal part is wider than a rearward folded part extending from a central area.
- 25 26. The system according to any of items 20-24, wherein at least one of the two rearward folded parts (71,81) comprises at least two folds, preferably two folds in the form of a concave fold and a convex fold.
- 30 27. The system according to any of items 20-25, wherein at least one of the two rearward folded parts comprises a hole or notch or indentation (76) configured such that the snap-fit attachment to the supporting profile can be disassembled by engaging said hole or notch or indentation via a protrusion of a tool, such as a front side of a connector clip.
- 35 28. The system according to any of the preceding items, wherein the further rearward folded part (62,72,82) has a spring function between a folded and less folded configuration, and optionally the further rearward folded part with a

spring function comprises at least one middle or third rearward folded part configured for engagement with the depression of the supporting profile.

- 5           29. The system according to item 28, wherein the at least one middle or third rearward folded part is configured to form a barbed engagement to the supporting profile, and/or configured to engage with an opening, such as a slit, of the supporting profile.
- 10           30. The system according to any of the preceding items, wherein the further rearward folded part with spring function, comprises a hinged zone (82'), such that the fold has spring function or is reversibly folded.
- 15           31. The system according to item 30, wherein the hinged zone is horizontally and/or vertically oriented relative to the planar, longitudinal part of the clip.
32. The system according to any of items 30-31, wherein the hinged zone comprises one or more strip-shaped elements.
- 20           33. The system according to any of items 28-32, comprising a second middle rearward folded part (86) configured to form a barbed engagement to the supporting profile.
34. The system according to item 33, wherein the second middle rearward folded part (86) comprises two planes at an angle, optionally forming a V-shape.
- 25           35. The system according to any of the preceding items, wherein the at least one lamella comprises an undercut groove.
36. The system according to any of the preceding items, wherein the supporting profile comprises a front flange (4a) in parallel to the wall surface, and at least one fastening element for attachment to a supporting wall (2).
- 30           37. The system according to item 36, wherein the fastening element comprises a rearward flange extending perpendicular to the front flange, such that the supporting profile is T-shaped or asymmetric T-shaped in cross-section.
- 35

38. The system according to any of items 36-37, wherein the supporting profile comprises a rear flange in parallel with the front flange, such that the supporting profile is H-shaped or U-shaped in cross-section.
- 5 39. The system according to any of items 36-37, wherein the front flange (4a) comprises the depression, such as a slit, configured to engage with the at least one further rearward folded (62,72,82) with spring function.
40. A method of installing a lamella, comprising the steps of:
- 10 (a) providing a lamella fixing system comprising at least a supporting profile (4), a lamella (1) comprising a groove, and a connector clip (6) made of a steel sheet, comprising a planar, longitudinal part, at least one rearward folded part, and at least one forward folded part,
- 15 (b) attaching the rearward folded part of the connector clip to the supporting profile,
- (c) slidably attaching the lamella groove to the forward folded part of the connector clip by force, thereby elastically compressing the forward folded part in a direction perpendicular to the longitudinal direction.
- 20 41. The method according to item 39, comprising the steps of:
- (a) providing a lamella fixing system comprising at least a supporting profile (4), a lamella (1) comprising a groove, and a connector clip (6) made of a steel sheet, comprising a planar, longitudinal part, at least one rearward folded part, at least one further rearward folded part with a spring function between a folded
- 25 and less folded configuration, and at least one forward folded part,
- (b) attaching the at least one rearward folded part of the connector clip to the supporting profile, whereby the spring function of the at least one further rearward folded part is activated,
- 30 (c) slidably attaching the lamella groove to the forward folded part of the connector clip by force, thereby elastically compressing the forward folded part in a direction perpendicular to the longitudinal direction.
42. The method according to any of items 39-40, wherein the lamella fixing system is the system according to any of items 1-38.

**Claims**

1. A lamella fixing system, comprising:
  - at least one supporting profile,
  - 5       - at least one lamella comprising a groove, and
  - at least one connector clip for interconnecting the lamella and the supporting profile,  
wherein the connector clip is made of a steel sheet comprising a planar, longitudinal part, at least one rearward folded part for attachment to the supporting profile, and at least one forward folded part for attachment to the lamella groove,
  - 10       wherein the supporting profile is provided with a depression or an opening, such as a slit, in a front flange, and  
the connector clip is provided with at least one further rearward folded part configured to engage with the depression or opening, such as a slit, of the supporting profile.
  - 15
2. The system according to claim 1, wherein the steel sheet comprises spring steel.
- 20
3. The system according to any of the preceding claims, wherein the thickness of the steel sheet is between 0.2 – 1.8 mm, more preferably between 0.3 – 1.5 mm, and most preferably between 0.3 – 1 mm, such as 0.4, 0.5 or 0.7 mm.
- 25
4. The system according to any of the preceding claims, wherein the at least one forward folded part is configured to be elastically compressed in the width direction, thereby forming an elastically stressed configuration.
5. The system according to any of the preceding claims, comprising at least two forward folded parts.
- 30
6. The system according to claim 5, wherein the at least two forward folded parts are configured to be pressed towards each other upon slidingly forced attachment to the lamella groove.
- 35

7. The system according to any of the preceding claims, wherein the at least one forward folded part is configured to form a snap-fit attachment to the lamella groove.
- 5 8. The system according to any of claims 5-7, wherein the at least two forward folded parts are symmetrically positioned around the planar, longitudinal part, and/or placed centrally to the length of the planar, longitudinal part.
- 10 9. The system according to any of the preceding claims, wherein the at least one forward folded part comprises a further or third folded part configured to form a barbed engagement to the lamella groove.
- 15 10. The system according to any of the preceding claims, comprising at least two rearward folded parts for attachment to the supporting profile configured to form a detachable snap-fit attachment to the supporting profile.
- 20 11. The system according to claim 10, wherein at least one of the two rearward folded parts comprises a hole or notch or indentation configured such that the snap-fit attachment to the supporting profile can be disassembled by engaging said hole or notch or indentation with a protrusion tool via a front side of the connector clip.
- 25 12. The system according to any of the preceding claims, wherein the at least one rearward folded part extends from an edge of the planar, longitudinal part.
13. The system according to any of the preceding claims, wherein the further rearward folded part has a spring function.
- 30 14. The system according to any of the preceding claims, wherein the groove of the at least one lamella is an undercut groove.
- 35 15. The system according to any of the preceding claims, wherein the supporting profile comprises a front flange in parallel to the wall surface, and at least one fastening element for attachment to a supporting wall, optionally wherein the fastening element is a rearward flange extending perpendicular to the front flange or a rear flange in parallel with the front flange, such that the supporting

profile is T-shaped, H-shaped, U-shaped, or asymmetric T-shaped, H-shaped, U-shaped in cross-section.

5 16. The system according to claim 15, wherein the depression or opening, such as a slit, configured to engage with the at least one further rearward folded part is provided in the front flange.

10 17. A method of installing a lamella, comprising the steps of:  
(a) providing a lamella fixing system according to any one of claims 1 to 16,  
(b) attaching the rearward folded part of the connector clip to the supporting profile,  
(c) slidingly attaching the lamella groove to the forward folded part of the connector clip by force, thereby elastically compressing the forward folded part in a direction perpendicular to the longitudinal direction.

15