DISMOUNTABLE FACADE SCAFFOLD

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ABSTRACT
A dismountable, multi-story facade scaffold is formed of at least four vertical support elements and floor plates and railing elements which are mounted thereto. An additional scaffold story is erected by coupling an additional vertical support element to an already existing one and pivotally attaching one end of a railing element thereto at a location above where the floor plate for the next story will be placed. The other end of that railing element is pivotally attached to another vertical support element. This other vertical support element is then raised, thereby pivotally moving the railing element relative to the respective vertical support element until the railing element is in a horizontal position and the vertical support element is in the vertical position. The other vertical support element is now attached to the upper end of a corresponding vertical support of the lower scaffold story. Thereafter the floor plate for the additional scaffold story is installed so that a worker stepping on the floor plate of the higher story is protected from the very beginning against falling off. The connections between the ends of the railing and the respective vertical support elements are disengageable when they are in relatively inclined positions and become locked when the railing is perpendicular to the support elements. The scaffold is dismantled by reversing this procedure.

15 Claims, 6 Drawing Sheets
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Fig. 4

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b)
DISMOUNTABLE FACADE SCAFFOLD

This is a continuation of application Ser. No. 09/242,265, filed Dec. 9, 1999, now U.S. Pat. No. 6,422,345.

BACKGROUND OF THE INVENTION

The invention relates to a dismantlable facade scaffold and to a method for the assembly and dismantling of such a facade scaffold.

Such facade scaffolds, in which the vertical support consists of support elements which can be separated from one another (CH-A-658878; GB-A-4276487), are used extensively for erection at the facade of a building in order to carry out external work there, for example applying a coat of paint.

Such facade scaffolds are generally assembled by successively erecting the individual scaffold planes, with the individual support elements of the vertical supports of a first scaffold plane and on the support elements in that scaffold plane (the second plane), in which the installer was present during the last discussed working step. These raling elements serve to reduce the danger of falling.

Once all the raling elements for the second scaffold plane have been installed, the floor plates belonging to the third scaffold plane lying above the second scaffold plane are coupled by the installer above his head with the previously installed support elements.

Finally, the scaffold is additionally stabilized during the erection of the individual planes with transverse and/or diagonal struts.

In known facade scaffolds of the named kind it is a disadvantage that the installer has to work both during the erection of the support elements for the next scaffold plane and also during the installation of the raling elements for this next scaffold plane without any form of side protection, or without any form of side raling. This causes a considerable accident danger.

In order to counter this, it has already become known (FR-A-2336532) to install the ralings of a new story to be erected from the already finished story and only then to place the floor plate belonging to the next story onto the already finished part of the scaffold, so that a worker treading on the new floor plate is already protected against falling by the previously installed raling. The pre-installation of the raling of the next story makes it necessary for vertical struts to extend downwardly from both sides of the raling which must first be connected to the already finished part of the scaffold and later also to the support elements of the following story.

In a further known dismantlable scaffold (FR-A-25164141) of the same kind, downwardly projecting struts are provided at one end of the raling by means of which the raling which is suspended at the other end of a vertical support can thus be swung upwardly to the next story and then secured to an already previously erected vertical support element.

The known solutions thus require additional downwardly extending vertical supports in order to move a raling element up to the next story and to secure it to the vertical support elements of the scaffold.

SUMMARY OF THE INVENTION

The object of the invention is to make available a dismantlable facade scaffold and also a method of assembling and dismantling such a facade scaffold of the initially named kind, in which not only the danger of an accident during the assembling or dismantling is reduced to a minimum, but rather the assembling/dismantling can be carried out economically in a simple manner.

Thus, in accordance with the invention, the raling elements which are pivotally connected at one end to an already installed support element are coupled at the other end to a not yet installed further support element, whereupon the further support element is lifted up, with a pivoting of the raling element into a horizontal position, and is set onto the associated support element of the already finished story. Thus, no additional vertical supports are required for the vertical pivoting of the raling element, but rather the support element which later forms a component of the scaffold is itself used.

Since, with facade scaffolds, several vertical units are as a rule erected alongside one another, with their floor plates adjacent to one another in a plane, it is sensible to design the coupling between the raling elements and the support elements so that two raling elements can be secured at one end of a support element and can then respectively extend horizontally in opposite directions.

A particularly simple coupling between raling elements and support elements results when the raling elements can be hung into the fastening positions of the support element provided for this purpose. In this respect it is again of advantage when the suspended connection is equipped with a security device against unintentional release in order to ensure, in this manner, that the raling element is reliably connected to the support element when a horizontally directed force is exerted on a raling element, such as for example occurs when an installer leans against the raling element.

The said securing device is preferably so designed that it is achieved solely by the coupling of the raling element and the support element, without special devices having to be actuated for this purpose or without the installer having to carry out additional manual actions.

The suspended connection is preferably realized by a projection element which extends substantially perpendicular to the support element and is fixedly connected to the latter, and also by a lug provided at the end region of the raling element and which can be coupled to the projection element. It is an advantage of this embodiment that moveable parts do not need to be provided either at the raling element or at the support element.

The projection element is preferably executed as a stamped part, which can for example be welded onto the support element. Thus, the manufacturing costs can be restricted to a minimum because the stamping procedure can be carried out at low cost.

The projection element can, for example, be made substantially areal or flat, with it naturally having to have a certain thickness in order to be able to withstand the forces which arise.

In one possible embodiment of the projection element, the latter is provided with at least two mutually displaced projections at its upper and lower sides in each case. In this case the lug of the raling element can be threaded onto the projection element while executing pivotal movements when the raling element is aligned perpendicular to the
support element, with the lug being moved over one projection of the projection element during each pivotal movement. Through sequential, opposite pivotal movements the lug is thereby alternatively moved over the projections provided at the upper and lower side of the projection element.

It is preferred when the lug is executed as an elongate slot which extends in the longitudinal direction of the railing elements, since in this case the lug can be pushed onto the projection element while executing a substantially linear movement, when the support element and the railing element include an angle, which is for example smaller than 45°. The support element and the railing element include an angle of this kind at the stage of the erection or dismantling in which the railing element has a free end, i.e. an end which is not coupled to a support element, and the other end is connected to a support element or to be released from such an element.

In this case the coupling position between the support element and the railing element stands, for example, approximately three meters above the floor plate, on which the installer is actually standing, so that it is of advantage when the corresponding coupling can be easily produced or cancelled by a simple linear movement.

In a preferred embodiment of the invention two fastening positions, in each case for a separate railing element, are provided with an erected scaffold above the fastening position of this support element provided for the floor plate. Thus, two railing elements can be provided at different spacings from the floor plate which is subsequently to be installed, whereby the side protection to be brought about is increased.

The distance between the fastening position provided for the second railing element and the fastening position provided for the floor plate amounts, by way of example, to between 30 cm and 70 cm, in particular to approximately 50 cm. It is consequently possible to provide, for example, two railing elements at a distance of 50 cm and 100 cm from the floor plate.

The number of parts which have to be moved during erection and dismantling can in the latter case be reduced if the two railing elements belonging to a support element are pivotally connected together. This pivotal connection makes it possible for the two railing elements to be jointly swung upwardly in the manner already described above into their horizontal position. Instead of two individual railing elements, it is, however, only necessary to move one part which embraces the two railing elements and an additional stabilization of the overall scaffold is achieved by the said hinged connection of the two railing elements.

The effective total length of a support element with an erected scaffold can amount to between 180 cm and 220 cm, in particular to approximately 200 cm.

The effective total length in the erected scaffold of a support element which can be inserted into the lowest scaffold plane can amount to between 280 cm and 330 cm, in particular to approximately 300 cm, and a support element of this kind can have two fastening positions for two base plates which are to be arranged in different scaffold planes. With support elements dimensioned in this way a situation is avoided in the lowest scaffold plane in which a joint position or coupling position already has to be provided in this scaffold plane between two support elements arranged above one another, which would form a weak point of the overall scaffold as a result of the high forces which act in the lowestmost plane.

The number of the parts which have to be moved during installation and dismantling can be additionally reduced in that two support elements aligned parallel to one another, and which come to lie at the narrow side of a floor plate, in particular when the scaffold is erected, are fixedly connected to one another via a transverse brace. In this case an at least approximately H-shape results for the two support elements connected to one another.

Since scaffolds erected in front of facades frequently only require railing elements at one side, it is sufficient with support elements which are connected to one another in the described manner when only one of these two support elements has at least one fastening position for a railing element.

In the context of the support elements connected to one another, it is possible to connect two support elements to one another which have different lengths, or substantially the same length, but are displaced relative to one another in the vertical direction.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a facade scaffold in accordance with the invention in the course of being built up,

FIGS. 2a–2f show a schematic illustration of a total of six working steps which have to be completed when building up a facade scaffold in accordance with the invention.

FIGS. 3a–3c show different individual elements of a facade scaffold in accordance with the invention.

FIGS. 4a, 4b show two variants for the coupling of support elements which respectively extend parallel to one another,

FIGS. 5a–5c show an example for the design of the fastening device for the attachment of a railing element to a support element, and

FIGS. 6a, 6b show two further alternatives with respect to the fastening device of FIG. 5.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

In accordance with FIG. 1, a facade scaffold is in the course of being erected at a building 1. Four support elements 3 are braced against the ground 2 to form vertical supports in an arrangement with a rectangular base surface, with the longer side of the rectangular base surface extending parallel to the front side of the building 1.

The support elements 3 are joined with the lowest scaffold plane plane are supported at the base side via vertically adjustable spindle arrangements 4 and are completed by transverse beams 5 and diagonal struts 6 to form a load carrying base frame 7. This base frame 7 is continued to the right in FIG. 1 in a corresponding manner which is not, however, illustrated for reasons of clarity.

Further support elements which are partly braced together are pushed onto two rear vertical support projections 8 of the base frame 7 arranged behind one another at a small spacing in order to form vertical supports. In the story A, which directly adjoins the base frame 7, an intermediate piece 9, a connection piece 10 and also an end frame 11 is provided as support elements, with the end frame 11 consisting of two support elements extending parallel to one another and fixedly connected together via transverse strut or brace.

For the further stories B to E, which follow the story A, further connection pieces 10 and end frames 11 are pushed...
onto the support elements or onto the connection pieces and the end frame 11 of the story A. The shape of an end frame 11 can be particularly well seen for the end frame 11 provided for the story E, which is actually being held by an installer 12 in the erection step shown in FIG. 1.

The joints between the base frame 7, intermediate pieces 9, connection pieces 10 and end frame 11, at which respective plug connections are provided, are characterized for the end regions of the overall scaffold in FIG. 1 by short horizontal lines.

The assembly scheme for the vertical supports of FIG. 1 will be described once again in the following with an explanation of FIG. 4b.

Provided along the building 1 at uniform intervals there are a total of seven vertical support arrangements consisting of intermediate pieces 9, connection pieces 10 and end frames 11 put together vertically above one another.

Respective rectangular floor plates 14 are held between two vertical support arrangements arranged in series along the building 1 and ultimately form the different working planes for the individual stories A to E.

The facade scaffold has furthermore two forwardly projecting auxiliary scaffolds 15 and 16 respectively.

In order to secure the people 12, 17 working on the floor plates 14, railing elements 18 are provided at a suitable height at the front sides of the end frames 11. The installation of these railing elements takes place in a manner in accordance with the invention that in each case first the railing elements 18 of one story are installed, and only then the floor plate 14 belonging to this story.

In the embodiment of the invention shown in FIG. 1, the railing elements 18 are first secured at the fastening positions 19 of the end frame 11 by the installer 12. Thereafter, the end frame 11" is connected at the fastening positions 20 to the end of the railing elements 18 remote from the fastening positions 19, so that the two end frames 11, 11" jointly form a parallelogram with the two railing elements 18. It is of importance that the railing elements 18 are hingedly mounted on the end frames 11, 11" so that it is possible for the installer 12 to grasp the entire arrangement at the end frame 11" and swing it upwardly in the direction of the arrow in order to subsequently enable the end frame 11" to be plugged onto the lower lying end frame 11 and the lower lying connection piece 10 respectively.

Through the above-described working step the railing 18 for the story E has already been installed before the introduction of the floor plate provided for the story E. As a consequence, it is ensured that at the time at which the floor plate 14 is secured to the story E, a side protection in the form of the railing elements 18 already exists so that the danger of an installer working on the story E falling is already reduced from the outset to a considerable degree.

End railings 21 are respectively provided at the ends of the total scaffold in addition to the railing elements 18.

Curb strips 22 are releasably secured, in particular to the side of the floor plates 14 remote from the building 1 and, if necessary, also at the side adjacent the building 1 and at the end sides, and are intended to prevent tools which lie on the floor plates 14 being pushed sideways over the edge of the floor plates 14 when walking on them and thus to prevent the tools being able to fall downwardly from the facade scaffold.

The scaffold has four already finished stories A, B, C and D and two which are already under construction, E and F respectively.

FIG. 2 shows individual working steps during the erection of a facade scaffold in accordance with the invention.

In the working step of FIG. 2a the installer 12 is standing on a floor plate 14 which is associated with the story A. The installer 12 is secured during this by at least one railing element 18, which is coupled at the fastening positions 19 to vertically extending support elements 3.

In the working step of FIG. 2b the installer 12 is placing a further support element 3 on the support element 3, with the joint 23 between the support elements 3, 3 being realized by a plug connection.

Subsequently, in accordance with FIG. 2c, a further railing element 18 is suspended at one end at a fastening position of the support element 3 provided for this purpose. After this railing element 18 has been coupled at its other end to a further support element 3, the railing element 18 is swung upwardly together with the support element 3 in accordance with FIG. 2d in the direction of the arrow, whereupon, in accordance with FIG. 2e, the support element 3 is plugged onto the lower lying support element 3 at 23.

In this position shown in FIG. 2e, the railing element 18 is consequently already erected for the story B lying above the story A before the floor plate 14 required for the story B was secured.

In accordance with FIG. 2f the floor plate 14 for the story B is finally attached to the fastening positions 24 of the support elements 3, 3" provided for this purpose. Thereafter, the story B canalue on for the first time by the installer 12 and at this point in time the railing 18 is, however, already installed so that a side protection exists for the installer.

It should be remarked that the floor plates 14, 14' in accordance with the invention can basically be secured either directly to the support elements 3, 3, 3" or also indirectly, for example via transverse struts which are connected to the support elements 3, 3, 3".

FIG. 3 shows different vertical support elements which can be used in the context of the invention for the erection of a scaffold.

FIG. 3a shows two support elements which are approximately three meters long which are intended for use in the lowestmost plane of the scaffold.

At the lower end and also at a height of approximately two meters, the support elements 25 have respective fastening positions 24 for floor plates 14, 14'. Thus two floor plates 14, 14' for two different scaffold planes can be secured to the support elements 25.

Approximately 50 cm above and also approximately 100 cm above the two fastening positions 24 for the floor plates 14, 14' there are fastening positions 19 for railing elements, which are not shown in FIG. 3.

At least one of the two support elements 25 thus has fastening positions 19 for railing elements of two scaffold planes lying above one another.

The embodiment of FIG. 3a of support elements 25 for the lowestmost scaffold plane is of advantage, because in this manner no joint positions or plug connections are present in the lowestmost plane, which impair the stability of the overall scaffold.

In FIG. 3b there is shown a support element 3 which can be used for all scaffold planes which follow the support elements 25. This support element 3 can be plugged at its lower end onto the upper end of the support element 25 of FIG. 3a.

In accordance with the invention, two fastening positions 19 of the support element 3 intended for railing elements are located above a fastening position 24 provided for a floor plate.
The effective overall length of the support element in accordance with FIG. 3b amounts to approximately two meters.

In the lower region of FIG. 3b, the fastening position 24, which is formed as a rose, is shown in plan view and has apertures for the hanging into place of the floor plates.

FIG. 3c shows a special embodiment of a support element 26, which can be used in the context of the invention and which only has one fastening position 24 for a floor plate at its upper end. A support element 26 of this kind can, for example, be used in the uppermost scaffold plane in which, in certain applications, the vertical supports adjacent the building are located beneath a roof projection so that care can be taken here by means of the short support element 26 of FIG. 3c that the roof projection and the support element do not collide with one another.

In the embodiment of FIG. 3 the vertical supports are built up exclusively of individual supports, with any potential connections between adjacent support elements being produced exclusively via releasable connections.

In contrast to this, FIG. 4a illustrates how two support elements 3 are fixedly connected to one another via a transverse brace 27 to form an end frame. The overall arrangement of a support element 3 and transverse brace 27 thereby forms an H-like structure.

Just above the transverse brace 27 are fastening positions 24 for a floor plate 14, which is shown in broken lines. Alternatively, the fastening position 24 could also be spared in this case if the transverse brace is used as a support and thus as a fastening position for the floor plate 14.

Further fastening positions 19 for razing elements not shown in FIG. 4a are provided approximately one meter above the fastening positions 24.

Individual end frames in accordance with FIG. 4a can be plugged into one another via plug connections 23.

Through this embodiment the number of parts which have to be moved during erection and dismantling are reduced, since in each case two support elements 3 are combined together to a single element via the transverse brace 27.

An alternative embodiment is shown in FIG. 4b. This embodiment corresponds to the embodiment in accordance with FIG. 1.

Here, the two support elements 3 which are to be connected together via the transverse brace 27 have different lengths. As one support element 3 is shortened relative to the embodiment of FIG. 4a, the total weight of the end frame 3, 27 can be reduced in this way. However, allowance must be made for the fact that the individual end frames have to be coupled.

It should be expressly mentioned at this point that for the additional reduction of the number of parts which have to be moved, the razing elements in all embodiments in accordance with FIGS. 3b and 4 can also be fixedly hinged to the fastening positions 19 provided for this, so that a fixed but hinged connection is already present in the support elements 3 and the razing elements 18 prior to the installation.

FIG. 5 shows the manner in which razing elements 18 can be coupled to the support elements 3.

With the illustrated way of coupling, this is essentially a suspended connection, which is realized by a projection element 28 extending substantially perpendicular to the support element 3 and also by a lug 29 provided in the end region of a razing element 18 and capable of being coupled to the projection element 28. The projection element 28 is fixedly connected to the support element 3, and is in particular welded to it at 32.

The projection element 28 has, at its upper side and lower side, displaced relative to one another, in each case two projections 30.

The transverse dimension q of the aperture 31 of the lug 29 is so selected that the razing element 18 can also be threaded onto the projection element 18 while executing alternating pivotal movements. In this respect the dimension q is precisely selected such that threading on is possible unhindered but cannot, however, be brought about in any of a linear movement of the razing element 18 or of the lug 29, when the razing element 18 and the support element 3 are aligned approximately perpendicular to one another.

The fact that the pivotal or threading movement is necessary to secure the razing element 18 to the support element 3 ensures that the razing element 18 cannot be released in unintentional manner by the action of horizontally directed forces from the support element 3. This security is, moreover, favored by the fact that the abutment surface of the projection element 30 of the projection element 28 disposed closest to the support element 3 extends vertically and thus parallel to the support element 3.

The further abutment surfaces of the projections 30 can, for example, be obliquely executed in order to facilitate the threading on of the lug 29 in this way.

The spacing d between the abutment surfaces of the projections 30 facing the support elements 3 and the support element 3 is so selected that the lugs 29 of two razing elements 18 extending in opposite directions can be threaded onto a single projection element 28.

On attachment of the first end of one razing element 18 to the projection element 28, the razing element 18 has the position relative to the projection element 28, which is for example shown in FIG. 2 (see also FIG. 2c).

The angle α enclosed between the support element 3 and the razing element 18 is in this case smaller than 45°.

As a result of the aperture 31 of the lug 29, which is formed as an elongate slot with the length 1, a plugging of the razing element 18 onto the projection element 28 is possible in this position by the execution of a purely linear movement. Thereafter, the razing element 18 is then swung in the direction of the arrow A upwardly about the projection element 28 into a horizontal position shown in FIG. 5c.

In this position it is no longer the longitudinal dimension 1 of the aperture 31 but rather its transverse dimension q which is the determining factor, with respect to the cooperation between the lug 29 and the projection element 28.

As a result of the already described dimensioning of q, a situation is effectively prevented in the position of FIG. 5c in which the razing element 18 could be released from the projection element 28 by a purely linear movement. A release of this kind is only possible by the intentional execution of several sequential pivotal movements.

In the context of the system of the invention, the first end of the razing element 18 is coupled to the support element 3 in the manner shown in FIGS. 5b and 5c, while the other end is threaded onto the second support element 3 by executing pivotal movements.

FIG. 6 shows alternative embodiments of the projection element of FIG. 5.

In FIG. 6a the projection element is formed by two part elements 33, 34 arranged above one another, with the lower part element 34 having two upwardly extending projections 30, and the upper part element having two recesses 35 at its lower side aligned with the projections 30.

The operating principle corresponds here to the operating principle of FIG. 5, with the lug 29 being threaded over the lower part element 34.
FIG. 6b shows an embodiment corresponding to that of FIG. 6a, only with projections 30 and recesses 35 being arranged in reversed manner on the upper and lower part elements 33, 34 respectively.

The invention is not restricted to the above-described embodiments. Many other variants can be realized within the context of the disclosure.

What is claimed is:

1. A dismantlable facade scaffold comprising at least four upright, lower support elements, at least one lower floor plate, and at least one lower railing element secured to lower support elements to define a lower story of the scaffold, first and second, spaced-apart upper support elements for attachment to upper ends of and in substantial vertical alignment with corresponding lower support elements for an additional, upper story of the scaffold, an upper railing element for forming a safety rail for the upper story of the scaffold, first and second pivotal connections formed by the first and second upper support elements and the upper railing element permitting relative rotational movements between the first upper support element attached to the upper end of the corresponding lower support element and the upper railing element between a horizontal orientation of the upper railing element and an inclined orientation of the upper railing element in which a free end of the upper railing element is proximate the lower floor plate, the pivotal connections being located proximate upper ends of the upper support elements and permitting separation of the first and second upper support elements when the upper railing element is in its inclined orientation so that a first end of the upper railing element can be pivotally attached to the first upper support element with the upper railing element in its inclined orientation, and the inclined upper railing element can be raised from the inclined into the horizontal orientation when the second upper support element is connected to a second end of the upper railing element by the second pivotal connection and attaching a lower end of the second upper support element to and in substantial alignment with a corresponding one of the lower support elements.

2. The dismantlable facade scaffold in accordance with claim 1, wherein a distance between the pivotal connections and the associated floor plate is between 70 cm and 130 cm.

3. The dismantlable facade scaffold in accordance with claim 1, wherein, when the scaffold is erected, the lower ends of the first and second support elements extend downwardly past the associated floor plate by between 60 cm and 100 cm.

4. The dismantlable facade scaffold in accordance with claim 1, wherein the upper railing element forms horizontally extending bars when the upper story of the scaffold is fully erected.

5. The dismantlable facade scaffold in accordance with claim 1, including a device preventing an unintentional release of the pivotal connections between the upper railing element and first and second upper support elements.

6. The dismantlable facade scaffold in accordance with claim 5, wherein the device comprises a projection piece extending substantially perpendicular to the first upper support element and fixedly connected thereto and a lug provided at an end region of the railing element which is capable of being coupled to and uncoupled from the projection piece when the upper railing element is in the inclined orientation.

7. The dismantlable facade scaffold in accordance with claim 6, wherein the projection piece comprises a stamped part.

8. The dismantlable facade scaffold in accordance with claim 6, wherein the projection piece has a substantially flat configuration.

9. The dismantlable facade scaffold in accordance with claim 6, wherein the projection piece has at least two projections displaced relative to one another at each of its upper and lower sides.

10. The dismantlable facade scaffold in accordance with claim 6, wherein the lug includes an elongate slot extending in a longitudinal direction of the railing element.

11. The dismantlable facade scaffold in accordance with claim 1, wherein, when the scaffold is erected, vertically spaced-apart upper and lower railing elements are provided for each story.

12. The dismantlable facade scaffold in accordance with claim 11, wherein the distance between the lower railing element and the associated floor plate is between 30 cm and 70 cm.

13. The dismantlable facade scaffold in accordance with claim 1, wherein, when the scaffold is erected, an effective total length of the lower and upper support elements is between 180 cm and 220 cm.

14. The dismantlable facade scaffold in accordance with claim 1, including plug connections for securing the lower and upper support elements to each other.

15. The dismantlable facade scaffold in accordance with claim 1, including a locking member fixing the upper railing element to the upper support elements when the railing element is in a horizontal orientation and permitting separation of the railing element and the support elements when the railing element is in inclined position.

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