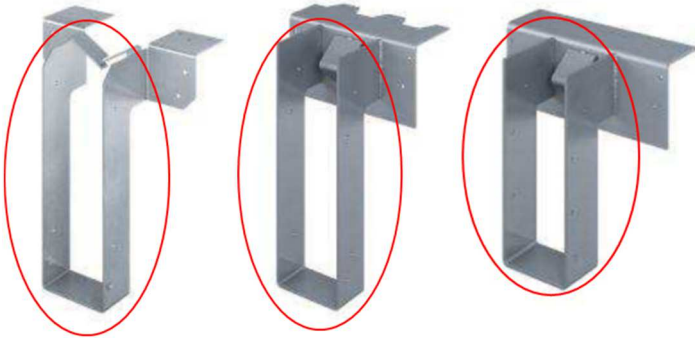
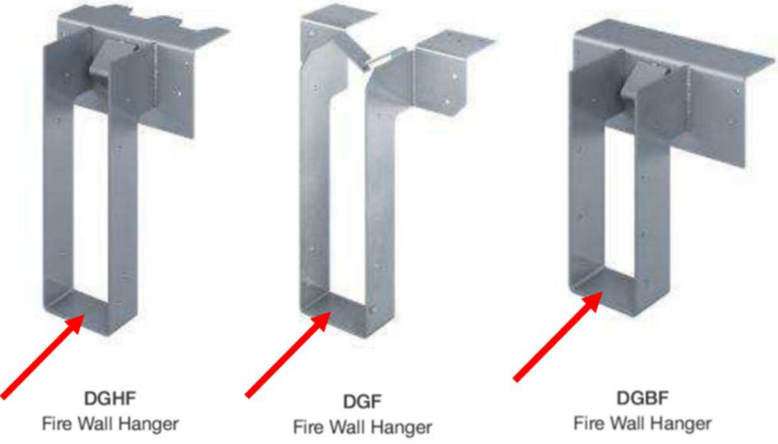
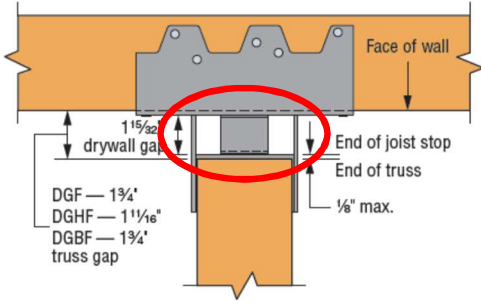


Infringement Claim Charts
U.S. Pat. No. 10,316,510 v. DGF, DGHF, and DGBF Fire Wall Hangers

Claim 1

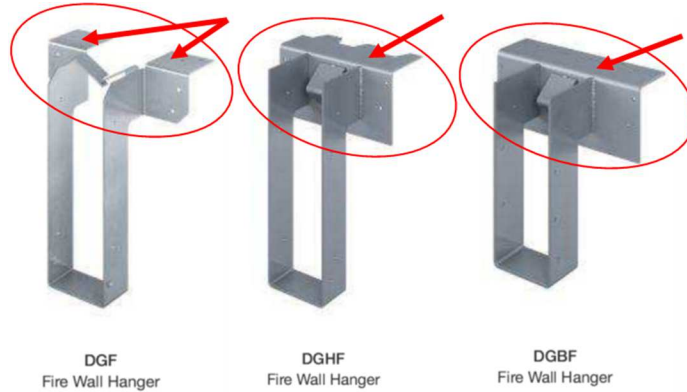
<p>A hanger for connecting a structural component to a wall adapted to have sheathing mounted thereon, the hanger comprising:</p>	<p>The fire wall hangers within Simpson's DGF Fire Wall Hanger series (including the DGF, DGHF, and DGBF models) are designed to connect a structural component to a wall having sheathing mounted thereon.</p> 
<p>a channel-shaped portion configured to receive the structural component,</p>	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have a channel-shaped portion configured to receive the structural component.</p>  <div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="701 1591 831 1640"> <p>DGF Fire Wall Hanger</p> </div> <div data-bbox="938 1591 1068 1640"> <p>DGHF Fire Wall Hanger</p> </div> <div data-bbox="1166 1591 1295 1640"> <p>DGBF Fire Wall Hanger</p> </div> </div>

<p>the channel-shaped portion including a base sized and shaped for receiving an end of the structural component thereon to support the structural component, and</p>	<p>The channel-shaped portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers includes a base sized and shaped for receiving an end of the structural component thereon to support the structural component.</p>  <p>DGHF Fire Wall Hanger</p> <p>DGF Fire Wall Hanger</p> <p>DGBF Fire Wall Hanger</p>
<p>side panels extending upward from the base generally perpendicular to the base,</p>	<p>The channel-shaped portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers includes side panels extending upward from the base generally perpendicular to the base.</p>  <p>DGHF Fire Wall Hanger</p> <p>DGF Fire Wall Hanger</p> <p>DGBF Fire Wall Hanger</p>

<p>the side panels having rearward edges lying in a rear edge plane;</p>	<p>The rearward edges of the channel-shaped portion's side channels of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers form a rear edge plane.</p>  <p style="text-align: center;"> DGHF Fire Wall Hanger DGF Fire Wall Hanger DGBF Fire Wall Hanger </p>
<p>an extension portion extending from the channel-shaped portion and configured to extend through the sheathing; and</p>	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have an extension portion extending from the channel-shaped portion and configured to extend through the sheathing</p>  <p style="text-align: center;">DGHF Hanger (DGF Similar) Top View with Gap</p>

a connection portion including a top flange configured for attachment to a top surface of a top plate of the wall,

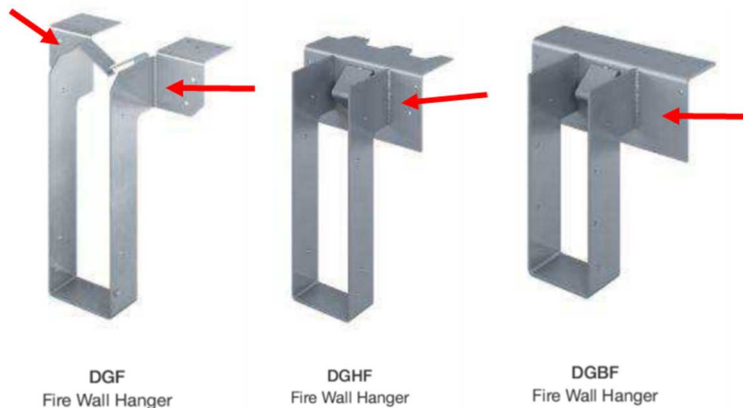
Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have at a connection portion (circled) including at least one top flange (shown with arrow) configured for attachment to a top surface of a top plate of the wall.



Product literature on Simpson's DGF Fire Wall Hanger states that "DGF/DGHF/DGBF hangers are mounted like a standard top-flange hanger." Ex. 3.

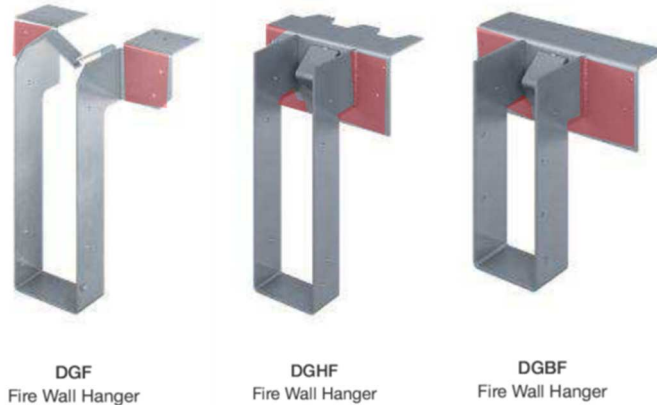
the connection portion further including a back flange extending from an edge of the top flange in a direction toward a plane of the base of the channel-shaped portion,

The connection portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers includes at least one back flange extending from an edge of the top flange in a direction toward a plane of the base of the channel-shaped portion.



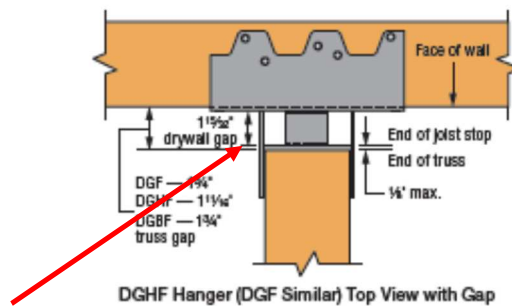
the back flange having a front surface lying in a back flange plane,

The back flange(s) of the connection portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers have a front surface lying in a back flange plane.



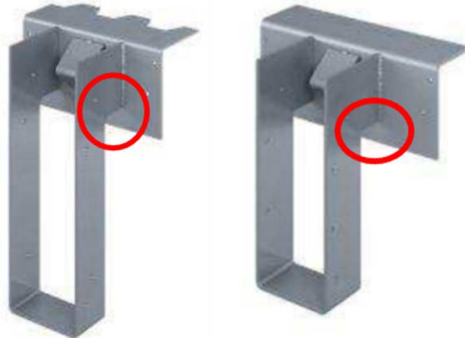
the extension portion spacing the side panels from the back flange plane by a distance sized large enough to permit two layers of 5/8 inch thick sheathing to be received between the rear edge plane and the back flange plane, but too small to permit three layers of 5/8 inch thick sheathing to be received between the rear edge plane and the back flange plane.

The extension portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers spaces the side panels a distance of $1 \frac{15}{32}$ inches from the back flange plane. This distance is sufficient to permit two layers of 5/8 inch thick sheathing to be received between the rear edge plane and the back flange plane, but is too small to permit a third layer of 5/8 inch thick sheathing to be received.

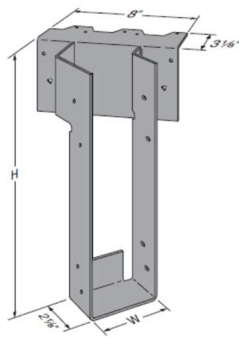


Product literature on Simpson DGF fire wall hanger series at states that "t[h]e hanger features a gap wide enough to install two layers of 5/8" drywall." Ex. 3.

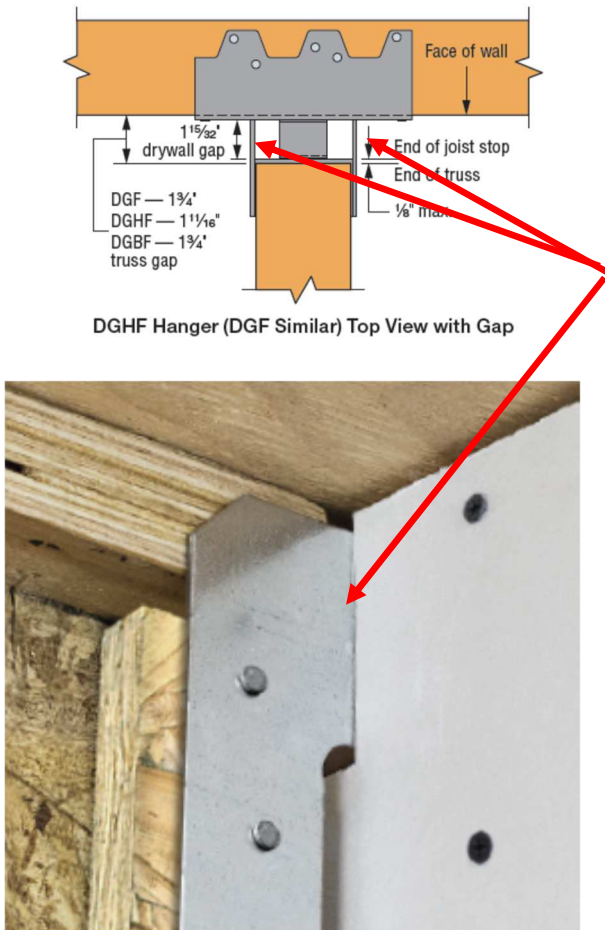
Claim 2

A hanger as set forth in claim 1,	<i>See claim 1 above.</i>
wherein a portion of the rearward edge of at least one of the side panels is in opposed, spaced apart relation with the back flange.	<p>A portion of the rearward edge of the side panels of Simpson's DGHF and DGBF Fire Wall Hangers are in opposed, spaced apart relation with the back flange.</p>  <p style="text-align: center;">DGHF DGBF Fire Wall Hanger Fire Wall Hanger</p>

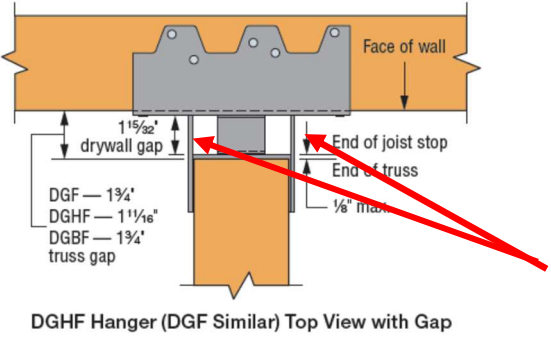
Claim 3

A hanger as set forth in claim 1,	<i>See claim 1 above.</i>
wherein the channel-shaped portion is disposed with respect to the extension portion to mount the structural component at a non-orthogonal angle relative to the wall.	<p>Product literature on Simpson DGF fire wall hanger series states that “all DGHF models may be ordered with a skew angle of up to 45° or with the top-flange offset left or right.” Ex. 3.</p>  <p style="text-align: center;">DGHF3.62/11.88 Skewed Right Shown</p>

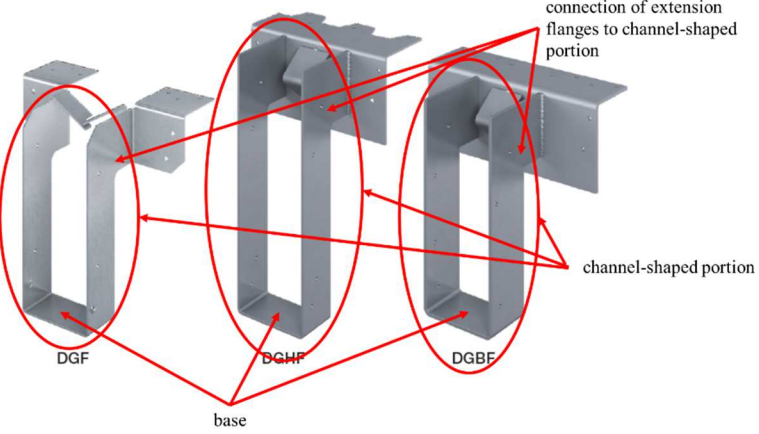
Claim 4

A hanger as set forth in claim 1,	<i>See claim 1 above.</i>
wherein the extension portion includes extension flanges extending from the channel-shaped portion, each of the extension flanges being configured to extend through the sheathing.	<p>The extension portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers includes extension flanges extending from the channel-shaped portion. The extension flanges are configured to extend through the sheathing.</p>  <p>The diagram, titled "DGHF Hanger (DGF Similar) Top View with Gap", illustrates the hanger's profile and its relationship to the wall assembly. It shows the hanger's channel shape with two extension flanges. Key dimensions and features are labeled: "drywall gap" (1 1/2"), "DGF — 1 3/4\"", "DGHF — 1 1/16\"", "DGBF — 1 3/4\"", "truss gap", "Face of wall", "End of joist stop", "End of truss", and "1/8\" gap". A red arrow points from the "End of truss" label to a photograph below. The photograph shows a physical DGHF hanger installed in a wall, with a red arrow pointing to the gap between the hanger and the wall sheathing.</p>

Claim 6

A hanger as set forth in claim 4,	<i>See claim 4 above.</i>
wherein the extension flanges are parallel to one another.	<p>The extension flanges of each Simpson's DGF, DGHF, and DGBF Fire Wall Hangers are parallel to one another.</p>  <p>DGHF Hanger (DGF Similar) Top View with Gap</p>

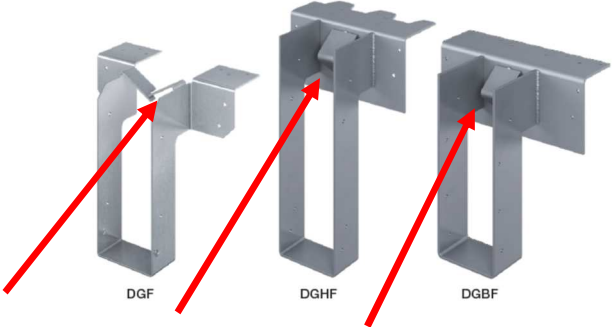
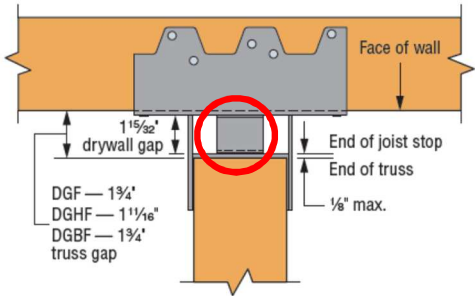
Claim 7

A hanger as set forth in claim 6,	<i>See claim 6 above.</i>
wherein the extension flanges are connected to the channel-shaped portion at an end of the channel-shaped portion opposite an end where the base is disposed.	<p>The extension flanges of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers are connected to the channel-shaped portion opposite of the base.</p> 

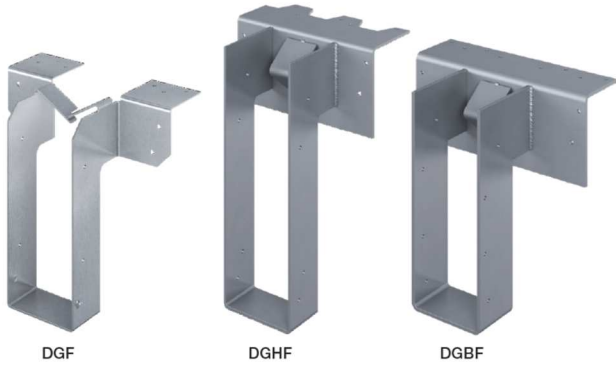
Claim 8

A hanger as set forth in claim 7,	<i>See claim 7 above.</i>
wherein the top flange comprises a first connector tab and a second connector tab, the first and second connector tabs being spaced apart from each other.	<p>The top flange of Simpson's DGF Fire Wall Hangers comprises a first connector tab and a second connector tab, the first and second connector tabs being spaced apart from each other.</p>  <p style="text-align: center;">DGF Fire Wall Hanger</p>

Claim 9

A hanger as set forth in claim 1,	<i>See claim 1 above.</i>
further comprising a stop configured to engage the end of the structural component to space the end of the structural component from the back flange plane by a distance sized large enough to permit two layers of 5/8 inch thick sheathing to be received between the end of the structural component and the back flange plane.	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have a stop configured to engage the end of the structural component to space the end of the structural component from the back flange plane by a distance sized large enough to permit two layers of 5/8 inch thick sheathing to be received between the end of the structural component and the back flange plane.</p>   <p>DGHF Hanger (DGF Similar) Top View with Gap</p>  <p>Product literature on Simpson DGF fire wall hanger series available states that “[t]he hanger features a gap wide enough to install two layers of 5/8" drywall.” Ex. 3.</p>

Claim 12

A hanger as set forth in claim 9,	<i>See claim 9 above.</i>
wherein the channel-shaped portion, the extension portion, the connection portion, and the stop are formed as one piece.	<p>The channel-shaped portion, the extension portion, the connection portion, and the stop of Simpson's DGF, DGHF, and DGBH Fire Wall Hangers are formed as one piece.</p>  <p style="text-align: center;">DGF DGHF DGBH</p>

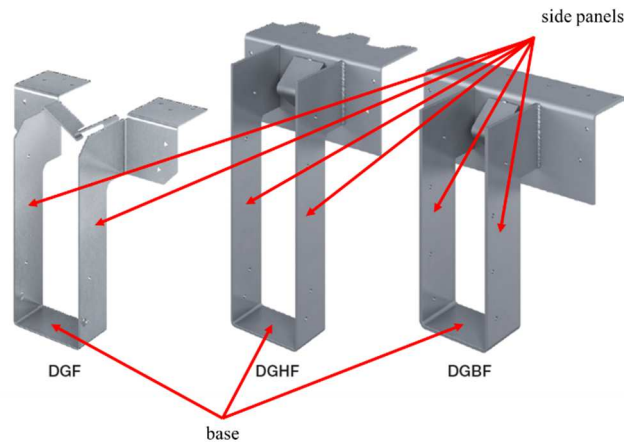
Claim 13

A hanger for connecting a structural component to a wall adapted to have fire resistant sheathing mounted thereon, the hanger comprising:	<p>The fire wall hangers within Simpson's DGF Fire Wall Hanger series (including the DGF, DGHF, and DGBF models) are designed to connect a structural component to a wall having fire resistant sheathing mounted thereon.</p> 
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<p>a channel-shaped portion configured to receive the structural component,</p>	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have a channel-shaped portion configured to receive the structural component.</p> <div data-bbox="662 352 1328 741">  <p>DGF Fire Wall Hanger</p> <p>DGHF Fire Wall Hanger</p> <p>DGBF Fire Wall Hanger</p> </div>
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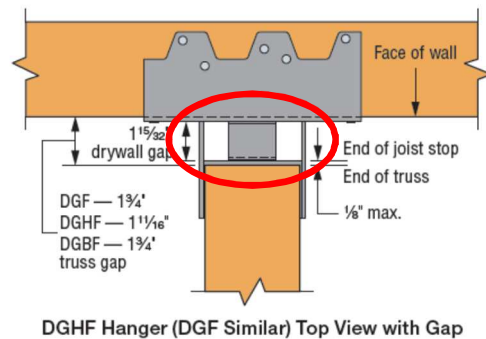
the channel-shaped portion including a base sized and shaped for receiving an end portion of the structural component thereon and side panels extending upward from the base;

The channel-shaped portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers includes a base sized and shaped for receiving an end portion of the structural component thereon and side panels extending upward from the base.

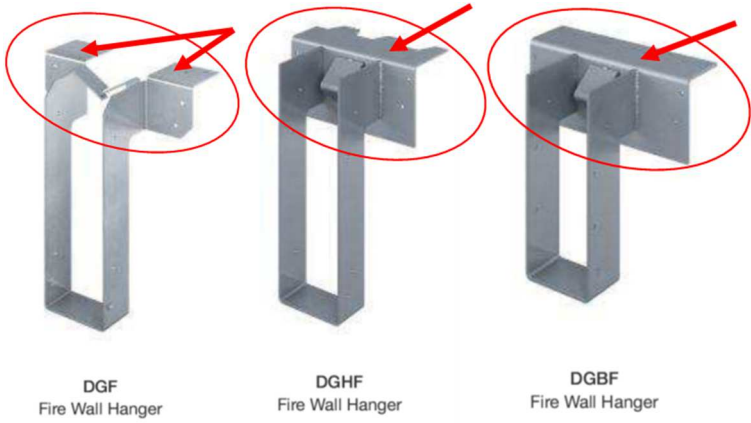
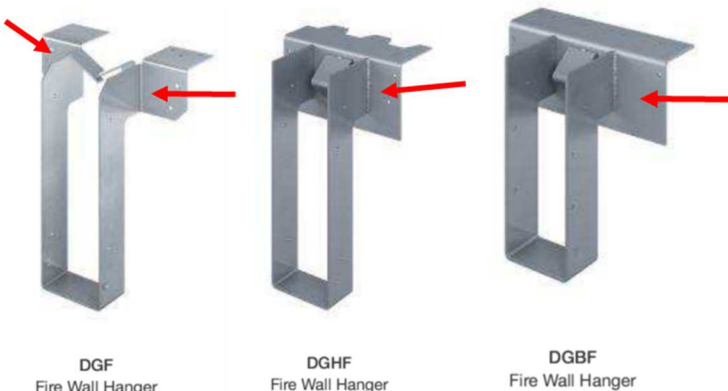


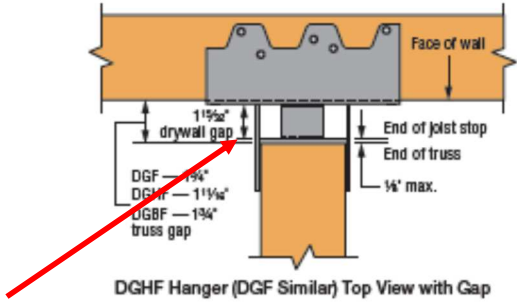
an extension portion extending from the channel-shaped portion and configured to extend through the fire resistant sheathing; and

Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have an extension portion extending from the channel-shaped portion and configured to extend through the sheathing.

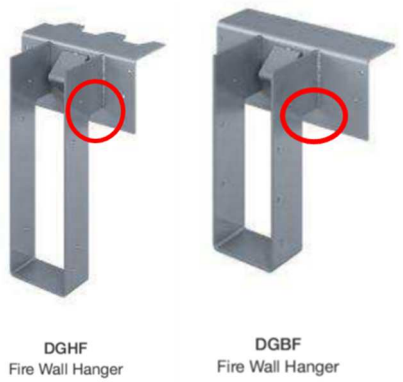


DGHF Hanger (DGF Similar) Top View with Gap

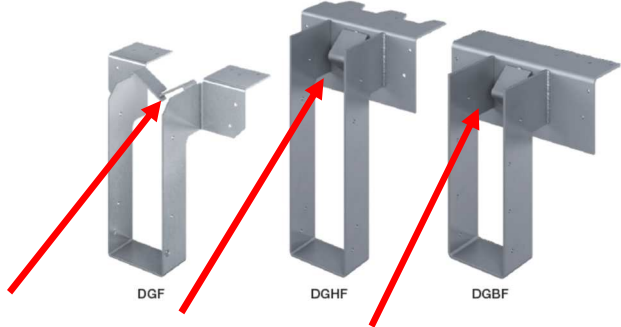
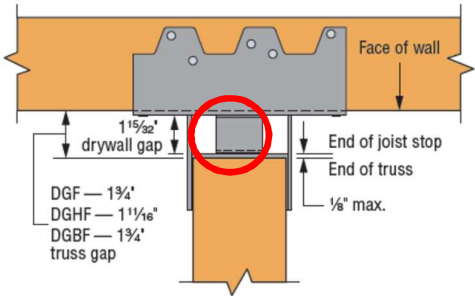
<p>a connection portion including a top flange configured for attachment to a top surface of a top plate of the wall,</p>	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have at a connection portion (circled) including at least one top flange (shown with arrow) configured for attachment to a top surface of a top plate of the wall.</p>  <p>Product literature on Simpson DGF fire wall hanger states that "DGF/DGHF/DGBF hangers are mounted like a standard top-flange hanger." Ex. 3.</p>
<p>the connection portion further including a back flange extending from an edge of the top flange in a direction toward a plane of the base of the channel-shaped portion,</p>	<p>The connection portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers includes a back flange extending from an edge of the top flange in a direction toward a plane of the base of the channel-shaped portion.</p> 

<p>the extension portion spacing the side panels from the back flange by a distance sized large enough to permit two layers of 5/8 inch thick sheathing to be received in a space bounded by the side panels and the back flange, but too small to permit three layers of 5/8 inch thick sheathing to be received in the space bounded by the side panels and the back flange.</p>	<p>The extension portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers spaces the side panels a distance of $1 \frac{15}{32}$ inches from the back flange. This distance is sufficient to permit two layers of 5/8 inch thick sheathing to be received between the rear edge plane and the back flange plane, but is too small to permit a third layer of 5/8 inch thick sheathing to be received.</p>  <p>Product literature on Simpson DGF fire wall hanger series available at states that "t[h]e hanger features a gap wide enough to install two layers of 5/8" drywall." Ex. 3.</p>
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Claim 14

<p>A hanger as set forth in claim 13,</p>	<p><i>See claim 13 above.</i></p>
<p>wherein a portion of at least one of the side panels is in opposed, spaced apart relation with the back flange.</p>	<p>A portion of the rearward edge of the side panels of Simpson's DGHF and DGBF Fire Wall Hangers are in opposed, spaced apart relation with the back flange.</p> 

Claim 15

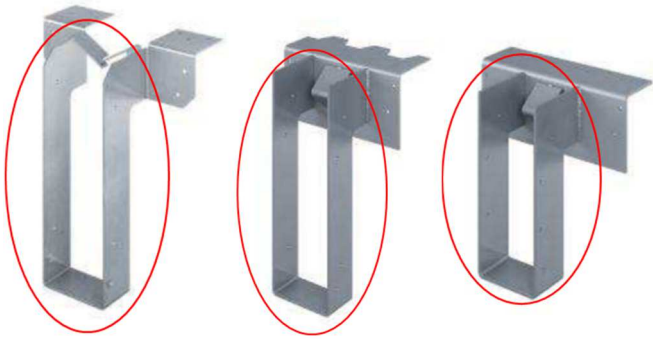
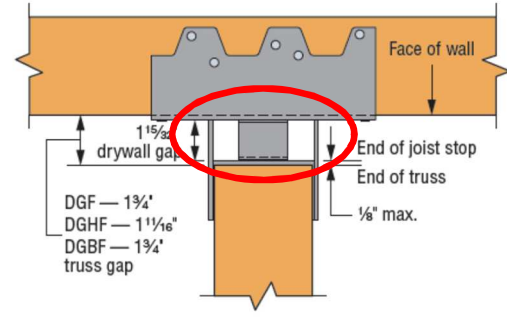
A hanger as set forth in claim 13,	<i>See claim 13 above.</i>
further comprising a stop configured to engage the end of the structural component to space the end of the structural component from the back flange plane by a distance sized large enough to permit two layers of 5/8 inch thick sheathing to be received between the end of the structural component and the back flange plane.	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have a stop configured to engage the end of the structural component to space the end of the structural component from the back flange plane by a distance sized large enough to permit two layers of 5/8 inch thick sheathing to be received between the end of the structural component and the back flange plane.</p>   <p>DGHF Hanger (DGF Similar) Top View with Gap</p>  <p>Product literature on Simpson DGF fire wall hanger series available states that “t[h]e hanger features a gap wide enough to install two layers of 5/8" drywall.” Ex. 3.</p>

Claim 19

A hanger as set forth in claim 13,	<i>See claim 13 above.</i>
wherein the channel-shaped portion, the extension portion, and the connection portion are formed as one piece of sheet metal.	<p>The channel-shaped portion, the extension portion, the connection portion, and the stop of Simpson's DGF Wall Hangers are formed from one piece of sheet metal.</p>  <p style="text-align: center;">DGF</p>

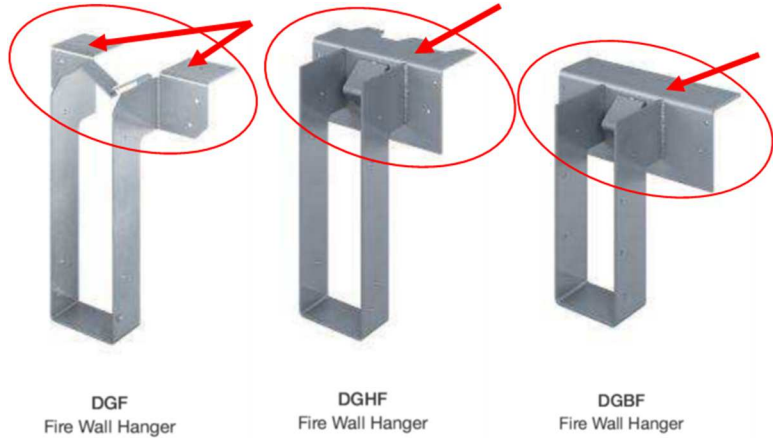
Claim 20

A hanger for connecting a structural component to a wall adapted to have drywall mounted thereon, the hanger comprising:	<p>The fire wall hangers within Simpson's DGF Fire Wall Hanger series (including the DGF, DGHF, and DGBF models) are designed to connect a structural component to a wall having drywall mounted thereon.</p> 
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<p>a channel-shaped portion configured to receive the structural component;</p>	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have a channel-shaped portion configured to receive the structural component.</p>  <p style="text-align: center;"> DGF Fire Wall Hanger DGHF Fire Wall Hanger DGBF Fire Wall Hanger </p>
<p>an extension portion extending from the channel-shaped portion and configured to extend through the drywall; and</p>	<p>Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have an extension portion extending from the channel-shaped portion and configured to extend through the drywall.</p>  <p style="text-align: center;">DGHF Hanger (DGF Similar) Top View with Gap</p>

a connection portion including a top flange configured for attachment to a top surface of a top plate of the wall and

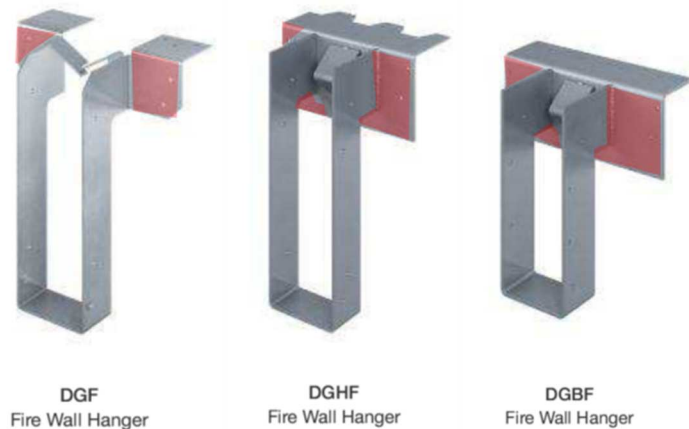
Simpson's DGF, DGHF, and DGBF Fire Wall Hangers each have at a connection portion (circled) including at least one top flange (shown with arrow) configured for attachment to a top surface of a top plate of the wall.



Product literature on Simpson DGF fire wall hanger series states that "DGF/DGHF/DGBF hangers are mounted like a standard top-flange hanger." Ex. 3.

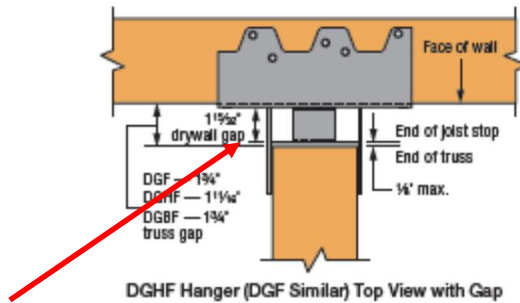
a back flange extending from an edge of the top flange, the back flange having a front surface lying in a back flange plane,

The connection portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers includes at least one back flange extending from an edge of the top flange and having a front surface lying in a back flange plane.



the extension portion spacing the channel-shaped portion from the back flange plane by a distance sized large enough to permit the drywall to be received between the channel-shaped portion and the back flange plane.

The extension portion of each of Simpson's DGF, DGHF, and DGBF Fire Wall Hangers spaces the side panels from the back flange plane by a distance of $1 \frac{15}{32}$ inches. This distance is sufficient to permit two layers of $\frac{5}{8}$ inch thick drywall to be received between the channel-shaped portion and the back flange plane.



Product literature on Simpson DGF fire wall hanger series states that “[t]he hanger features a gap wide enough to install two layers of $\frac{5}{8}$ ” drywall.” Ex. 3.