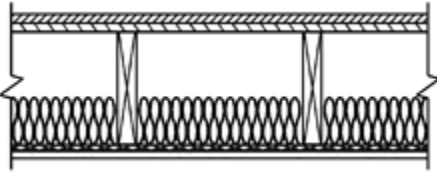
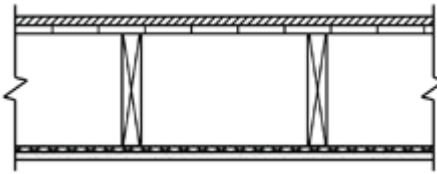
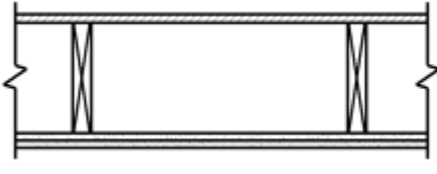
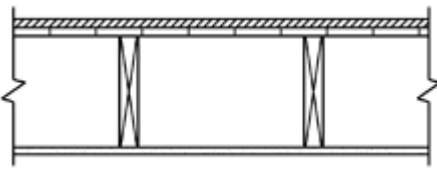
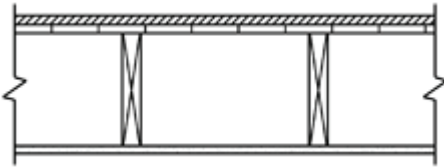


## Floor/Ceiling Assemblies - Wood Framing

1 Hour	Design #	GA File #	STC - 50-54	IIC - 73
	FM FC-181	FC 5120	Sound Test # G&H OC-3MT	Test # G&H OC-3MT
 <p style="text-align: center; color: blue; font-size: 0.9em;"> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>	<p>1/2" (12.7 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels 24" o.c. with 1" type S drywall screws 8" o.c. at ends and 12" o.c. at intermediate furring channels. Gypsum board end joints located midway between continuous channels and attached to additional pieces of channels 64" inches long with screws 8" o.c. Resilient furring channels applied at right angles to 2x10 wood joists 16" o.c. with 6d coated nails, 1-7/8" long, .085" shank, 1/4" heads, per joist. Wood joists supporting 5/8" plywood with exterior glue subfloor and 3/8" particle board. 3-1/2" fiberglass insulation friction fit in joist cavities supported alternately every 12" by wire rods and resilient furring channels. Sound and IIC tested with Carpet and pad.</p>			
1 Hour	Design #	GA File #	STC - 45	IIC - 39
	UL L515	FC 5300	Sound Test # NGC 4107	Test # NGC 5161
 <p style="text-align: center; color: blue; font-size: 0.9em;"> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>	<p>1/2" (12.7 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels 24" o.c. with 1" type S drywall screws 8" o.c. at ends and 12" o.c. at intermediate furring channels. Gypsum board end joints located midway between continuous channels and attached to additional pieces of channels 64" inches long with screws 8" o.c. Resilient furring channels applied at right angles to 2x10 wood joists 16" o.c. with 6d coated nails, 1-7/8" long, .085" shank, 1/4" heads, per joist. Wood joists supporting 5/8" plywood with exterior glue subfloor and 3/8" particle board. 3-1/2" fiberglass insulation friction fit in joist cavities supported alternately every 12" by wire rods and resilient furring channels.</p> <p>Sound test with carpet/pad, 3-1/2" fiberglass insulation= STC 50 (<a href="#">NGC-4110</a>)                      IIC test with Carpet and pad= 63 (<a href="#">NGC 5165</a>)</p>			
1 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	FM FC-172	FC 5406	Sound Test # N/A	Test # N/A
 <p style="text-align: center; color: blue; font-size: 0.9em;"> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>	<p>Base Layer 5/8" (15.9 mm) Fire-Shield Gypsum Board applied at right angles to 2x10 wood joists 24" o.c. with 1-1/4" Type W or S drywall screws 24" oc. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to joists with 1-7/8" Type W or S drywall Screws 12" o.c. at joints and intermediate joists and 1-1/2" Type G screw 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" wood structural panels applied at right angle to joists with 8d nails. Ceiling provides one hour fire resistance protection for framing, including trusses.</p>			
1 Hour	Design #	GA File #	STC - 37	IIC - 32
	UL L522	FC 5410	Sound Test # NGC 4024	Test # NGC 5032A
 <p style="text-align: center; color: blue; font-size: 0.9em;"> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>	<p>1/2" (12.7 mm) Fire-Shield C Gypsum Board applied at right angles to 2x10 wood joists 16" o.c. with 5d nails, 1-5/8" long, .099" shank, 1/4" heads, 6" oc. Nails placed 3/4" from board edge joints and 1/2" from board end joints. Wood joists supporting 1" nominal T&amp;G wood subfloor and 1" nominal wood finish floor, or 19/32" plywood finished floor with long edges T&amp;G and 19/32" interior plywood with exterior glue subfloor perpendicular to joists with joints staggered.</p> <p>IIC test with Carpet and pad= 66 (<a href="#">NGC 5033</a>)</p>			

## Floor/Ceiling Assemblies - Wood Framing

<b>1 Hour</b>	Design #	<b>UL L501</b>	GA File #	<b>FC 5420</b>	<b>STC - 37</b>	<b>IIC - 32</b>
				Sound Test # Based on <a href="#">NGC 4024</a>	Test # Based on <a href="#">NGC 5032</a>	



[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

5/8" (15.9 mm) Fire-Shield Gypsum Board applied at right angles to 2x10 wood joists 16" o.c. with 6d nails, 1-7/8" long, .0915" shank, 1/4" heads, 6" oc. Wood joists supporting 1" nominal T&G wood subfloor and 1" nominal wood finish floor, or 19/32" plywood finished floor with long edges T&G and 19/32" interior plywood with exterior glue subfloor perpendicular to joists with joints staggered.

IIC test with Carpet and pad= 66 ([Based on NGC 5033](#))

<b>1 Hour</b>	Design #	<b>FM FC-172</b>	GA File #	<b>FC 5407</b>	<b>STC - N/A</b>	<b>IIC - N/A</b>
				Sound Test # N/A	Test # N/A	



[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

Base Layer 5/8" (15.9 mm) Fire-Shield Gypsum Board applied at right angles to wood I-joists 24" o.c. with 1-1/4" Type W or S drywall screws 24" oc. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to I-joists with 1-7/8" Type W or S drywall Screws 12" o.c. at joints and intermediate I-joists and 1-1/2" Type G screw 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood I-joists supporting 1/2" wood structural panels applied at right angle to trusses with 8d nails. Ceiling provides one hour fire resistance protection for trusses.

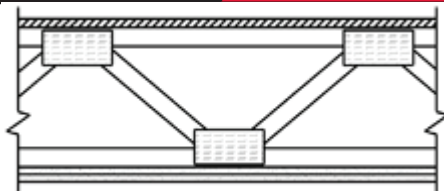
<b>1 Hour</b>	Design #	<b>N/A</b>	GA File #	<b>FC 5241</b>	<b>STC - 53</b>	<b>IIC - 46</b>
				Sound Test # TLF-02-043a	Test # 02-027	



[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

Base Layer 1/2" (12.7 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels with 1-1/4" Type S drywall screws 12" o.c. Resilient furring channels applied at right angles to joists and spaced 16" o.c. with 1-1/4" Type W drywall screws to wood I-joists 24" o.c. Face layer 1/2" Fire-Shield C Gypsum Board applied at right angles to channels with 1-5/8" Type S drywall Screws 12" o.c. Face layer end joints located midway between channels and attached to base layer with 1-1/2" Type G screws 12" o.c. Edge joints offset 24" from base layer edge joints. Wood I-joists supporting 5/8" oriented strand board applied at right angles to I-joists with 8d common nails 12" o.c. Sound test with 3-1/2" mineral wool or fiberglass insulation in joist cavity.

<b>1 Hour</b>	Design #	<b>FM FC-172</b>	GA File #	<b>FC 5408</b>	<b>STC - N/A</b>	<b>IIC - N/A</b>
				Sound Test # N/A	Test # N/A	

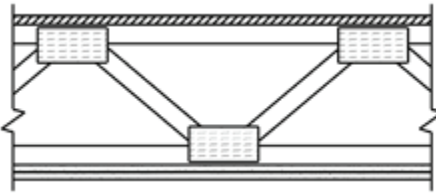


[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

Base Layer 5/8" (15.9 mm) Fire-Shield Gypsum Board applied at right angles to parallel chord wood trusses 24" o.c. with 1-1/4" Type W or S drywall screws 24" oc. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to trusses with 1-7/8" Type W or S drywall Screws 12" o.c. at joints and intermediate trusses and 1-1/2" Type G screw 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Trusses supporting 1/2" wood structural panels applied at right angle to trusses with 8d nails. Ceiling provides one hour fire resistance protection for trusses.

# Floor/Ceiling Assemblies - Wood Framing

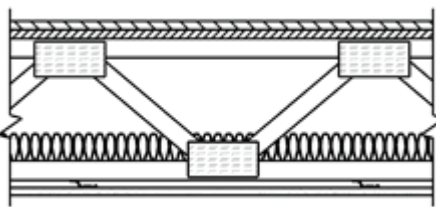
<b>1 Hour</b>	Design #	GA File #	<b>STC - N/A</b>	<b>IIC - N/A</b>
	<b>FM FC-214</b>	<b>FC 5512</b>	Sound Test # N/A	Test # N/A



[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

Base Layer 1/2" (12.7 mm) Fire-Shield C Gypsum Board applied at right angles to parallel chord wood trusses 24" o.c. with 1-1/4" Type S drywall screws 24" o.c. Face layer 1/2" Fire-Shield C Gypsum Board applied at right angles to trusses with 1-7/8" Type S drywall Screws 12" o.c. and 1-1/2" Type G screws 12" o.c. placed 3" back on either side of end joints. Joints offset 24" from base layer joints. Trusses supporting 19/32" T&G plywood with exterior glue applied at right angle to trusses with 6d nails 6" o.c. Plywood joints staggered 48".

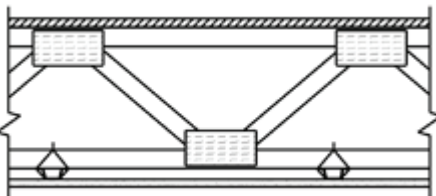
<b>1 Hour</b>	Design #	GA File #	<b>STC - N/A</b>	<b>IIC - N/A</b>
	<b>UL L558</b>	<b>FC 5514</b>	Sound Test # N/A	Test # N/A



[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

5/8" (15.9 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels 12" o.c. with 1" type S drywall screws 8" o.c. Gypsum board end joints attached with screws 8" o.c. to additional pieces of channel 60" long located 3" back on either side of end joint. Resilient furring channels applied at right angles to 18" deep parallel chord wood trusses 24" o.c. with 1-1/4" Type S or W drywall screws. Glass fiber or mineral fiber batt or loose fill insulation applied directly over gypsum board. Wood trusses supporting 23/32" wood structural panel subfloor, long edges T&G, applied at right angle to trusses with construction adhesive and 6d ring shank nails 12" o.c. Either 3/4" gypsum floor topping or 15/32" wood structural panel underlayment applied over subfloor.

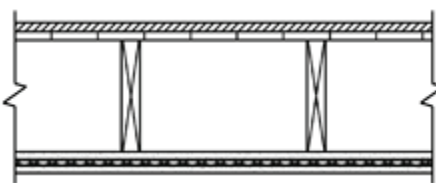
<b>1 Hour</b>	Design #	GA File #	<b>STC - N/A</b>	<b>IIC - N/A</b>
	<b>UL L528</b>	<b>FC 5516</b>	Sound Test # N/A	Test # N/A



[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

5/8" (15.9 mm) Fire-Shield C Gypsum Board applied at right angles to rigid furring channels 24" o.c. with 1" type S drywall screws 12" o.c. and 1-1/2" from edges. Gypsum board end joints located midway between continuous channels and attached to additional pieces of channels 60" inches long with screws 12" o.c. Rigid furring channels applied at right angles to 12" deep parallel chord wood trusses 24" o.c. with double strand 18 gage galvanized steel wire ties 48" o.c. Wood trusses supporting 3/4" nominal interior plywood with exterior glue, T&G edges, applied at right angle to trusses with construction adhesive and either 6d smooth shank nails 6" o.c. at end joints and 12" o.c. at intermediate trusses or 6d ring shank nails 12" o.c. Adhesive applied to each top chord and grooved edges of plywood. Plywood joints staggered 48".




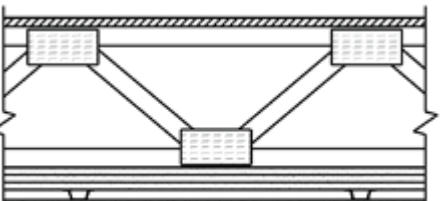
<b>2 Hour</b>	Design #	GA File #	<b>STC - N/A</b>	<b>IIC - N/A</b>
	<b>UL L505</b>	<b>FC 5724</b>	Sound Test # N/A	Test # N/A



[Link to .PDF file](#)  
[Link to .DWG file](#)  
[Link to .DWG/Text file](#)

Base layer 5/8" (15.9 mm) Fire-Shield C Gypsum Board applied at right angles to 2x10 wood joists 16" o.c. with 8d nails, 2-1/2" long, 0.113" shank, 19/64" heads, 7" o.c. Resilient furring channels at 24" o.c. applied at right angles to wood joists through base layer with 8d nails, 2-1/2" long, 0.113" shank, 19/64" head, at each joist. Face layer 5/8" Fire-Shield C Gypsum Board applied at right angles to resilient furring channels with 1" type S drywall screws 12" o.c. Wood joists supporting 1" nominal T&G wood subfloor and 1" nominal wood finish floor, or 19/32" plywood finished floor with long edges T&G and 15/32" interior plywood with exterior glue subfloor perpendicular to joists with joints staggered.

# Floor/Ceiling Assemblies - Wood Framing

2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L556	FC 5725	Sound Test # N/A	Test # N/A
 <p> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>				
<p>Base Layer 5/8" (15.9 mm) Fire-Shield Gypsum Board applied at right angles to 2x10 wood joists 24" o.c. with 1-1/4" Type W drywall screws 12" oc. Second layer 5/8" Fire-Shield Gypsum Board applied at right angles to joists with 2" Type W drywall Screws 12" o.c. Joints staggered 24" from base layer. Third layer 5/8" Fire-Shield Gypsum Board applied at right angles to joists with 2-1/2" Type W drywall Screws 12" o.c. Joints staggered 12" from second layer. Rigid furring channels 24" o.c. applied at right angles to joists over third layer with two 2-1/2" Type W drywall Screws at each joist. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to furring channels with 1-1/8" Type S drywall Screws 12" o.c. Steel joists supporting 3/4" T&amp;G plywood floor applied at right angle to joists with 8d nails 6" o.c. at joints and 12" o.c. at intermediate joists.</p>				
2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L556	FC 5750	Sound Test # N/A	Test # N/A
 <p> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>				
<p>Base Layer 5/8" (15.9 mm) Fire-Shield Gypsum Board applied at right angles to wood I-joists 24" o.c. with 1-1/4" Type W drywall screws 12" oc. Second layer 5/8" Fire-Shield Gypsum Board applied at right angles to I-joists with 2" Type W drywall Screws 12" o.c. Joints staggered 24" from base layer. Third layer 5/8" Fire-Shield Gypsum Board applied at right angles to I-joists with 2-1/2" Type W drywall Screws 12" o.c. Joints staggered 12" from second layer. Rigid furring channels 24" o.c. applied at right angles to I-joists over third layer with two 2-1/2" Type W drywall Screws at each joist. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to furring channels with 1-1/8" Type S drywall Screws 12" o.c. Wood I-joists supporting 3/4" T&amp;G plywood floor applied at right angle to joists with 8d nails 6" o.c. at joints and 12" o.c. at intermediate joists.</p>				
2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L538	N/A	Sound Test # N/A	Test # N/A
 <p> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>				
<p>Base Layer 5/8" (15.9 mm) Fire-Shield C Gypsum Board applied at right angles to wood I-joists 19.2" o.c. with 1-5/8" Type S drywall screws 8" o.c. Resilient furring channels at 16" o.c. applied at right angles to wood joists through base layer with 1-7/8" Type S drywall screws at each joist. Second layer 5/8" Fire-Shield C Gypsum Board applied at right angles to resilient furring channels with 1" type S drywall screws 8" o.c. Face layer 5/8" Fire-Shield C Gypsum Board applied at right angles to resilient channels with 1-5/8" Type S drywall Screws 12" o.c. through second layer. Joints staggered in adjacent rows and between layers. Wood I-joists supporting 5/8" wood structural panel floor applied at right angle to joists.</p>				
2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L556	FC 5751	Sound Test # N/A	Test # N/A
 <p> <a href="#">Link to .PDF file</a>  <a href="#">Link to .DWG file</a>  <a href="#">Link to .DWG/Text file</a> </p>				
<p>Base Layer 5/8" (15.9 mm) Fire-Shield Gypsum Board applied at right angles to parallel chord wood trusses 24" o.c. with 1-1/4" Type W drywall screws 12" oc. Second layer 5/8" Fire-Shield Gypsum Board applied at right angles to trusses with 2" Type W drywall Screws 12" o.c. Joints staggered 24" from base layer. Third layer 5/8" Fire-Shield Gypsum Board applied at right angles to trusses with 2-1/2" Type W drywall Screws 12" o.c. Joints staggered 12" from second layer. Rigid furring channels 24" o.c. applied at right angles to trusses over third layer with two 2-1/2" Type W drywall Screws at each truss. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to furring channels with 1-1/8" Type S drywall Screws 12" o.c. Trusses supporting 3/4" T&amp;G plywood floor applied at right angle to trusses with 8d nails 6" o.c. at joints and 12" o.c. at intermediate trusses.</p>				