

BlazeFrame® RipTRAK™ to stud connection

1" & 2" MAX. TOTAL DEFLECTION

With or Without RipTRAK Clips for 1HR and 2HR Profiles

For 2-1/2", 3-5/8" and 6" width RipTRAK systems only

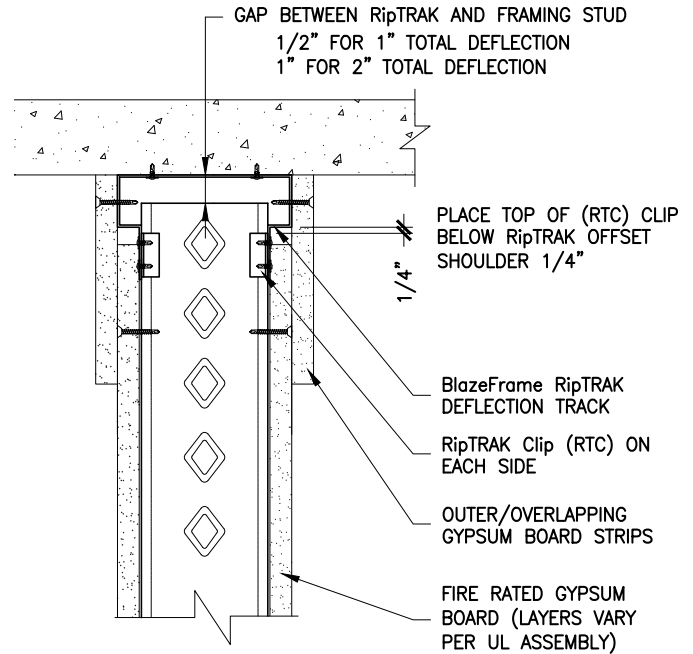
RipTRAK with ProSTUD / Non-Structural Wall Assembly

RipTRAK Thickness mils (ga)	Stud thickness mils (ga)	ASD Allowable Load (lbs)	Clip
33 mil (20ga)	15 mil (25ga EQ) 50ksi	25	NO CLIP
	18 mil (20ga EQ) 70ksi	50	
	30 mil (20ga DW) 33ksi	85	
	33 mil (20ga) 33ksi	85	
33 mil (20ga)	15 mil (25ga EQ) 50ksi	45	RTC-33 33 mil (20ga) Clip
	18 mil (20ga EQ) 70ksi	60	
	30 mil (20ga DW) 33ksi	110	
	33 mil (20ga) 33ksi	120	

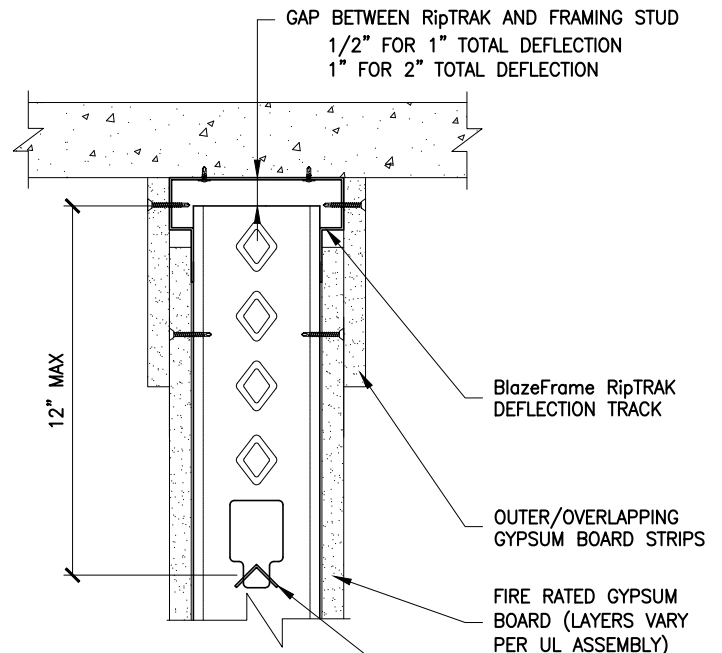
RipTRAK with Structural Stud Wall Assembly

RipTRAK Thickness mils (ga)	Stud thickness mils (ga)	ASD Allowable Load (lbs)	Clip
33 mil (20ga)	33 mil (20ga) 33ksi	85	NO CLIP
	43 mil (18ga) 33ksi	85	
	54 mil (16ga) 50ksi	85	
	68 mil (14ga) 50ksi	85	
33 mil (20ga)	33 mil (20ga) 33ksi	120	RTC-54 54 mil (16ga) Clip
	43 mil (18ga) 33ksi	120	
	54 mil (16ga) 50ksi	120	
	68 mil (14ga) 50ksi	120	
43 mil (18ga)	33 mil (20ga) 33ksi	120	NO CLIP
	43 mil (18ga) 33ksi	135	
	54 mil (16ga) 50ksi	150	
	68 mil (14ga) 50ksi	150	
43 mil (18ga)	33 mil (20ga) 33ksi	140	RTC-54 54 mil (16ga) Clip
	43 mil (18ga) 33ksi	195	
	54 mil (16ga) 50ksi	195	
	68 mil (14ga) 50ksi	360	
54 mil (16ga)	33 mil (20ga) 33ksi	130	NO CLIP
	43 mil (18ga) 33ksi	180	
	54 mil (16ga) 50ksi	290	
	68 mil (14ga) 50ksi	290	
54 mil (16ga)	33 mil (20ga) 33ksi	140	RTC-54 54 mil (16ga) Clip
	43 mil (18ga) 33ksi	210	
	54 mil (16ga) 50ksi	405	
	68 mil (14ga) 50ksi	445	
68 mil (14ga)	33 mil (20ga) 33ksi	130	NO CLIP
	43 mil (18ga) 33ksi	180	
	54 mil (16ga) 50ksi	390	
	68 mil (14ga) 50ksi	520	
68 mil (14ga)	33 mil (20ga) 33ksi	160	RTC-54 54 mil (16ga) Clip
	43 mil (18ga) 33ksi	210	
	54 mil (16ga) 50ksi	460	
	68 mil (14ga) 50ksi	695	

1" Max. Total Deflection
1/2" Extension + 1/2" Compression = 1" Max. Joint Width
2" Max. Total Deflection
1" Extension + 1" Compression = 2" Max. Joint Width



Wall Assembly using RipTRAK Clips (RTC)



Wall Assembly WITHOUT RipTRAK Clips (RTC)

Notes:

- 1 Allowable loads are based on using 600S162 structural framing members or 600PDS125 nonstructural framing members spaced at 12" o.c. min.
- 2 Allowable loads are for RipTRAK systems using 6" deep studs and less.
- 3 A minimum of 2 fasteners spaced at 12" o.c. are required to secure the RipTRAK to the structure.
- 4 1/8" Deflection Service Load limit is not included in allowable load.
- 5 Gap between web of RipTRAK and end of stud is half of total deflection. (As shown in details)
- 6 For assemblies not using RipTRAK clips (RTC), lateral bracing is required within 12" of the top of the stud to prevent wall studs from rotating. If a knockout is not spaced 12" from the top of the stud, use strapping and blocking or request a custom knockout pattern.
- 7 Increasing the RipTRAK thickness does not always achieve higher wall capacities. Stud limiting height or web crippling may control.
- 8 Stud members must be analyzed independently of the RipTRAK system. Stud failure modes (shear, web crippling, etc.) must be checked separately.

Calculating stud end reaction:

Stud End Reaction = (lateral pressure PSF) x (stud spacing FT) x (stud span FT) / 2
 Example: (5 PSF) X (1.33 FT) x (9.5 FT) / 2 = 31.7lbs