



Why Tile Roofs are Better ... and how do I get one?



Which roofing material would you rather have protecting your home?

The truth is out – Asphalt shingles don't last! Whether it's from a hail storm or simply old age, asphalt shingles rarely last for more than twenty years.

So, when it becomes time to reroof, why wouldn't you choose roof tile? Here's why you should:

- Superior aesthetics – more styles, textures and colors.
- Lifetime warranty – tiles are warranted for the life of the building.
- Fireproof – Class A fire rating (the highest achievable).
- Hail impact resistance of Class 3 and Class 4 – reduces homeowner insurance rates.
- Lowest life-cycle cost – despite a higher initial cost, a concrete tile will outlast two to three asphalt shingle roofs. Since the cost of roofing continues to escalate, the initial investment more than pays for itself in the long term or when selling the property.
- Energy efficient – can reduce heat gain through the roof by up to 70% compared to asphalt shingles (Heat gain comparisons shown below). (See: [Thermal Advantages of Tile Roofs // RCI Cool Tile - Final](#))





So, why don't all roofers offer tile roofs as a reroof option?

- Not familiar with the installation requirements
- Think tile is too heavy
- Would rather have a chance to reroof the same house after the next hailstorm

Why you should insist that they reconsider:

- Crown provides installation instructions and access to the Tile Roof Institute Tile Installer Training sessions.
- Crown provides practical and building code guidelines for determining the strength requirements for tile roofing. The fact is that almost all homes built to existing codes are capable of supporting a tile roof with little or sometimes no structural reinforcement.
- Concrete tiles actually get stronger with age and rarely require more than minor repairs, if any following the types of storms that can obliterate asphalt shingle roofs.

Criteria for mild climate regions where no snow load is considered:

Deflection limit L/180 (open attic)

ROOF RAFTERS		20# LIVE LOAD ¹ 15# DEAD LOAD L/180															
Design Criteria:		Table RR-3															
Strength - 20 lbs. per sq. ft. live load, plus 15 lbs. per sq. ft. dead load.																	
Deflection - Limited in span in inches divided by 180 for live load only.																	
Species or Group	Grade	Span (feet and inches)															
		2 x 6				2 x 8				2 x 10				2 x 12			
		spacing on center															
		12"	16"	18.2"	24"	12"	16"	18.2"	24"	12"	16"	18.2"	24"	12"	16"	18.2"	24"
Douglas Fir-Larch	SdL Struc.	18-0	16-4	15-5	14-3	23-9	21-7	20-1	18-0	30-4	26-11	24-7	20-0	36-1	31-3	29-6	25-6
	No.1 & Etc.	17-8	15-7	14-3	12-9	22-9	19-9	18-0	16-1	27-10	24-1	22-0	19-8	32-3	27-11	25-8	22-10
	No.2	16-5	14-3	13-0	11-7	20-9	18-0	16-5	14-8	25-5	22-0	20-1	17-11	29-5	25-6	23-3	20-10
	No.3	15-7	13-6	12-4	11-0	19-9	17-1	15-7	13-11	24-1	20-10	18-0	17-0	27-11	24-2	22-1	19-9
Douglas Fir-South	SdL Struc.	16-3	14-9	13-11	12-11	21-5	19-6	18-4	17-0	27-5	24-10	23-4	20-10	33-4	29-7	27-0	24-2
	No.1	15-9	13-8	12-6	11-2	20-0	17-4	15-10	13-2	24-5	21-2	19-4	17-3	28-4	24-6	22-5	20-0
	No.2	15-2	13-1	12-0	10-8	19-2	16-7	15-2	13-7	23-5	20-3	18-6	16-7	27-2	23-6	21-5	19-2
	No.3	11-7	10-1	9-2	8-0	14-8	12-9	11-7	10-5	17-11	15-7	14-0	12-8	23-0	19-0	17-5	14-9
Hem-Fir	SdL Struc.	17-0	15-5	14-7	13-5	22-5	20-5	19-2	17-5	28-7	25-0	23-9	21-3	34-10	30-2	27-5	24-5
	No.1 & Etc.	16-8	14-11	13-7	12-2	21-10	19-10	17-3	15-5	28-7	23-1	21-1	18-10	30-10	26-9	24-5	21-10
	No.2	16-2	14-0	12-10	11-5	20-5	17-9	16-3	14-6	25-1	21-5	19-10	17-9	29-1	25-2	23-0	20-7
	No.3	15-2	13-1	12-0	10-8	19-2	16-7	15-2	13-7	23-5	20-3	18-6	16-7	27-2	23-6	21-5	19-2
Spruce-Pine-Fir (South)	SdL Struc.	15-11	14-5	13-7	12-7	20-11	19-0	17-11	16-7	26-9	24-3	22-10	20-6	32-6	29-1	26-8	23-9
	No.1	15-4	13-3	12-2	10-10	19-5	16-10	15-4	13-9	23-9	20-7	18-9	16-9	27-5	23-10	21-9	19-5
	No.2	14-5	12-6	11-5	10-3	18-4	15-10	14-6	12-11	22-4	19-4	17-8	15-10	25-11	22-5	20-6	18-4
	No.3	11-0	9-6	8-5	7-9	13-11	12-1	11-0	9-10	17-0	14-9	13-5	12-0	19-9	17-1	15-7	14-0
Western Woods	SdL Struc.	15-6	13-8	12-4	11-0	19-9	17-1	15-7	13-11	24-1	20-10	19-0	17-0	27-11	24-2	22-1	19-9
	No.1	13-6	11-8	10-8	9-6	17-1	14-9	13-6	12-1	20-10	18-1	16-8	14-9	24-2	20-11	19-1	17-1
	No.2	13-6	11-8	10-8	9-6	17-1	14-9	13-6	12-1	20-10	18-1	16-8	14-9	24-2	20-11	19-1	17-1
	No.3	10-1	8-8	7-11	7-1	12-9	11-0	10-1	9-0	15-7	13-6	12-8	11-0	18-0	15-7	14-8	12-9

Span charts and rafter reinforcement guidelines have been used to convert thousands of homes from shake and shingles to standard concrete tile roofs.



The fact is, you can have a tile roof on your home if you know where to go to get the correct information. Crown Roof Tiles can provide you with not only the correct information but also the qualified people who can make your dream roof a reality. (See [Structural Analysis // Question of Weight](#))