REPORT OF TEST OF SAMPLES OF TUNALOID FELT - FROM A SHIPMENT OF 1000 ROLLS RECEIVED AT HACKENSACK ON OCTOBER 21st, 1907 - IN ERIE R. R. CAR No. 98256.

This material has one skin coat.

Tensile strength lbs. per linear inch.		#1	#2	#3
Saturated & Coated	Lengthwise	77.6 lbs.	81.2	70.7
	Crosswise	27.3	30.4	26.2
Extracted Felt	Lengthwise	71.8	78.9	69.1
	Crosswise	26.9	27.3	25.3
Wgt. of material per 100 sq. ft.		11.90 lbs.	10.94	11.34
Wgt. of Talc		.10	.08	.13
Wgt. of Felt sat. & coated		11.80	10.86	11.21
Wgt. of wool		1.04	.92	1.05
Wgt. of vegetable fibre		5.48	4.58	4.33
Wgt. of ash		.30	.28	.26
Thickness sat. & Coated		.023 in.	.020	.021
ext. felt		.020	.017	.018

Calculating the results according to the specifications:

	#1	#2	#3	required
Wgt. of felt sat. & Coated	11.80 lbs	10.86	11.21	12 - 14
Wgt. of ext. felt	6.52	5.50	5.38	5 - 6
Wgt. of bitumens + wgt. ext. felt	.81	.97	1.08	.75 - 1.25
S. L.	11.0	14.3	12.8	greater than 7
S. C.	4.1	5.0	4.7	" " 3-1/2
Increase in tensile strength when sat. & Coated over ext. felt.				
Lengthwise	8%	3%	2%	not less than 25%
Crosswise	2	11	4	" " " 15%
Ash in ext. felt	4.49	4.78	4.79	not more than 5%
Wool in ext. felt	21.29	18.20	19.23	not less than 25%
Talc. per 100 sq. ft.	.10 lbs.	.08	.13	not over 5 lbs.
Bitumens heated 10 hours 250° F	Plastic	Plastic	Plastic	Plastic
State of saturation	Complete	Complete	Complete	Complete

All of these are somewhat low in weight.

The percentage of wool in the extracted felt is low being about 5% under the specifications.

The increase in tensile strength when saturated and coated over the extracted felt is not up to the requirements. The strength itself is good.