Combination table – selection of the correct fastener and sleeve combination

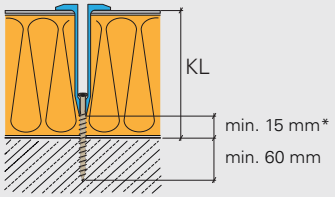
COMBINATION

Sleeve:
R45

Fastener:
LBS-T25-8,0
LBS-S-T25-8,0

CALCULATION

Please follow the calculation steps to find the correct fastener and sleeve combination for new roofs. Special rules apply for renovation.



* thickness vapour barrier to be considered

<u>Step 1:</u> Calculation of clamping length KL

Clamping length KL:
Total roof build-up between top edge substrate and top edge membrane

KL = Thickness vapour barrier
+ Thickness insulation
+ Thickness membrane

<u>Step 2:</u> Calculation of sleeve length SL

$SL_{max.}$ = Clamping length KL
- Thickness vapour barrier
- 15 mm

If a length is not available, take the next shorter length. Sleeve range see chapter.

<u>Step 3:</u> Calculation of fastener length FL

$FL_{min.}$ = Clamping length KL
- Sleeve length SL
+ 75 mm

If a length is not available, take the next longer length. Fastener range see chapter.

KL (mm)	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500
Sleeve length SL (mm)	15									105									195													325																	
			35										135									225															365											
						65									165									255																			405						
								85										185										285																				485
Fastener length FL (mm)	105	105	125	125						105	105	125	125	145					105	105	125	125	145										105	105	125	125	145	145											
			105	105	125	125	145						105	105	125	125	145					105	105	125	125	145										105	105	125	125	145	145						
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								105	105	125	125							105	105	125								105	105	125	125	145	145														105