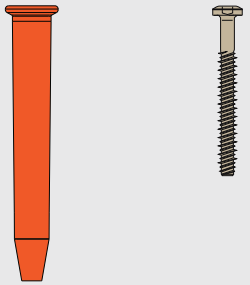
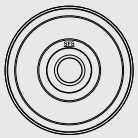
Combination table – selection of the correct fastener and sleeve combination

COMBINATION



Sleeve:
FI-R-20

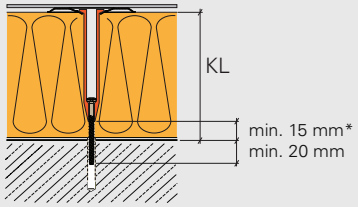
Fastener:
TI-T25-6,3



Stress plate:
FI-P-16,0-PVC, FI-P-16,0-TPO
or FI-P-16,0-EPDM

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

Step 1: Calculation of clamping length KL

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

KL = Thickness vapour barrier
+ Thickness insulation

Step 2: Calculation of sleeve length SL

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

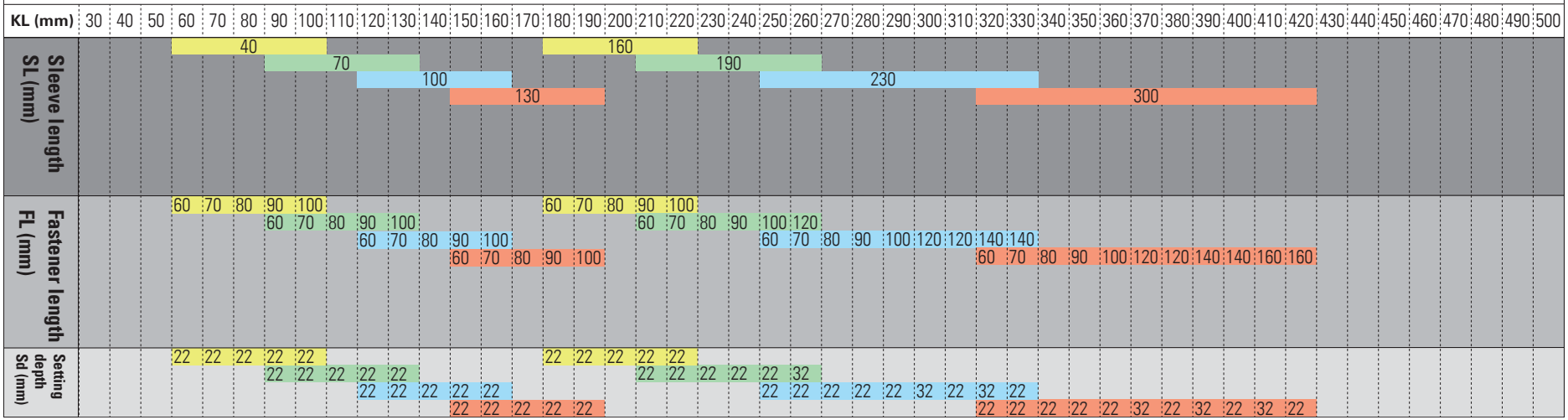
If a length is not available, take the next shorter length. Sleeve range see chapter.

Step 3: Calculation of fastener length FL

$FL_{min.}$ = Clamping length KL
- Sleeve length SL
+ 38 mm

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

Step 4: Calculation of setting depth Sd

Sd = Sleeve length
+ Fastener length
- 18 mm
- Clamping length KL

Depth of pilot hole to be 15 mm deeper than the setting depth, depending on site conditions.