

Mamba Joint

Joint Armouring and Load Transfer for Construction Joints



Mamba Joint Armoured Constuction Joint with 6 mm wide steel sine wave joint edge protection and Viper or Diamond dowel load transfer system.



INTRODUCTION

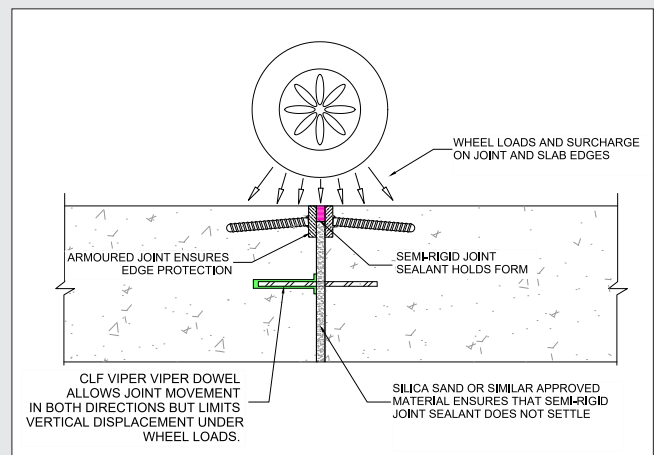
Well designed and properly constructed floor joints are critical for long term performance and increased productivity of industrial floors. Due to the unique sine wave geometry the mamba joint allows for superb joint protection on both sides of the joint and shock free passage over the joint for all wheel types increasing performance of the floor and eliminating vibration and noise.

BENEFITS

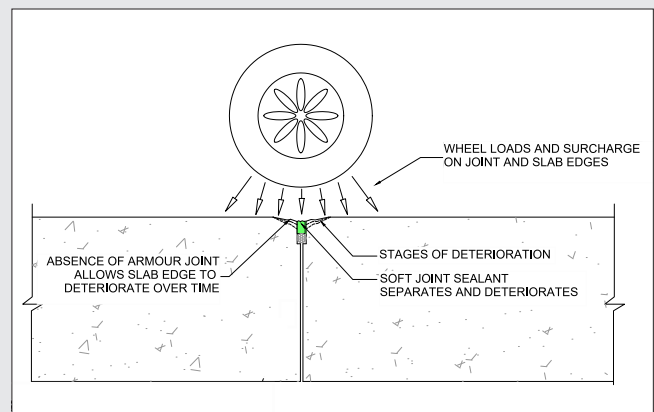
- Superior electroplated steel joint edge protection reduces maintenance
- Discontinuous dowel load transfer provides better "burst out" performance than continuous dowel systems
- Better floor flatness tolerances are achieved
- Superior load transfer

FEATURES

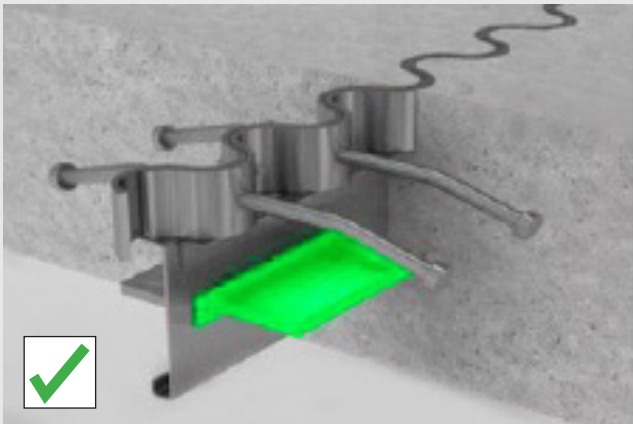
- Double sine profile upper strips
- Full depth sacrificial steel plate
- Dowels positioned in perfect symmetry
- 2 Way movement capability
- No vertical movement
- Load transfer by Viper or Diamond dowel
- Foolproof adjustable levelling system



Mamba Joint protected edge section.



Unprotected joint edge section.



Installed Mamba Joint.



Joint damage without Mamba Joint.

MAMBA JOINT SELECTION CRITERIA

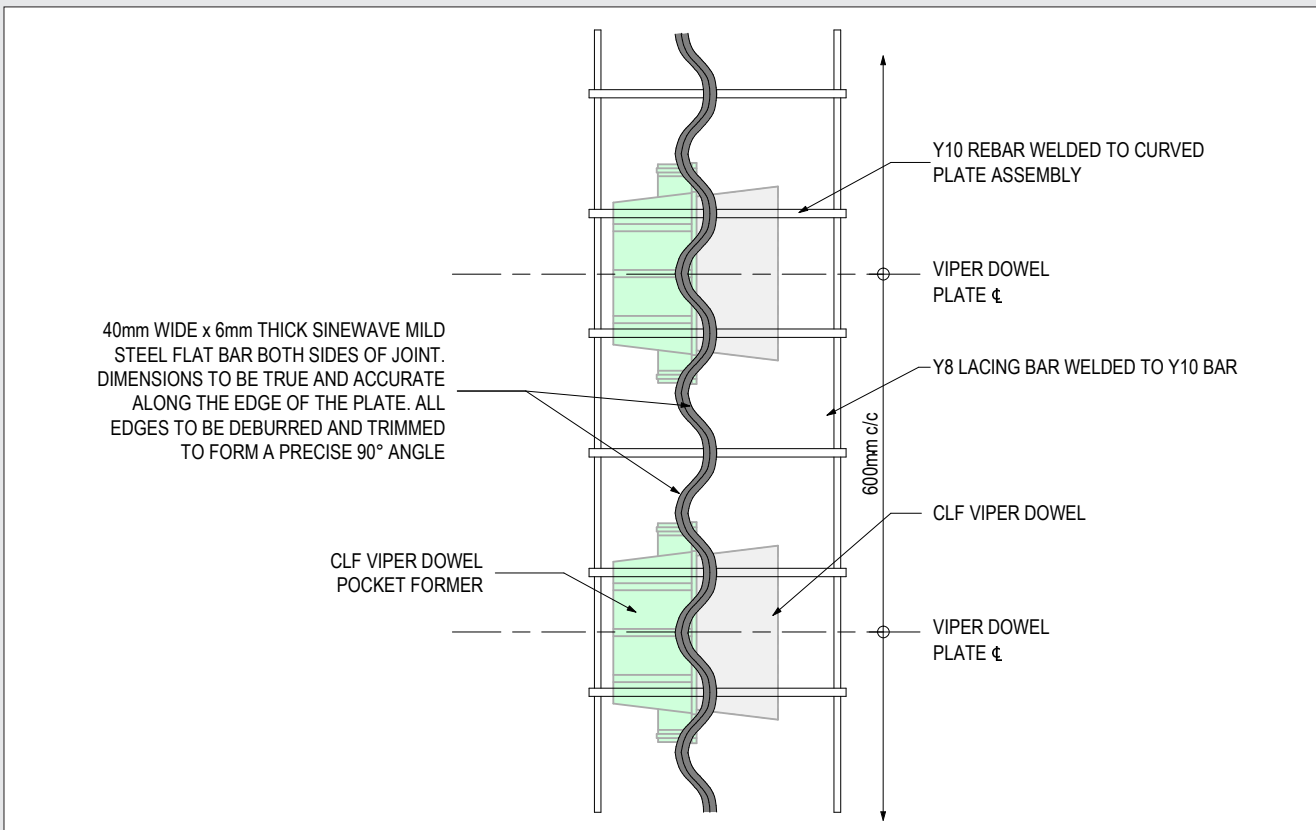
Mamba Joint D6 (Supplied with Diamond Dowels) to be fixed at 375 mm centres. For ground bearing slabs **up to 240 mm thick, 10 mm maximum joint opening** and sawn induced joints at approx 4 m ctrs.

Mamba Joint V10-600 (Supplied with Viper Dowels) to be fixed at 600 mm centres. For suspended floor slabs, Jointless Steel Fibre or bar reinforced **up to 240 mm thick and 20 mm maximum joint opening.**

Mamba Joint V10-430 (Supplied with Viper Dowels) to be fixed at 430 mm centres. For Jointless Steel Fibre slabs **above 240 mm thick.**

Note: Mamba Joint VD10-600 can also be specified for ground bearing slabs between 150mm and 240mm thick but only if the concrete has been reinforced with minimum of 35 kg/m³ of CLF steel fibre reinforcement. For extra heavily loaded joints on reinforced suspended slabs additional slab edge reinforcement can be provided with the joint at extra cost. Engineers would need to carry out their own joint load transfer calculation and a punching shear check.

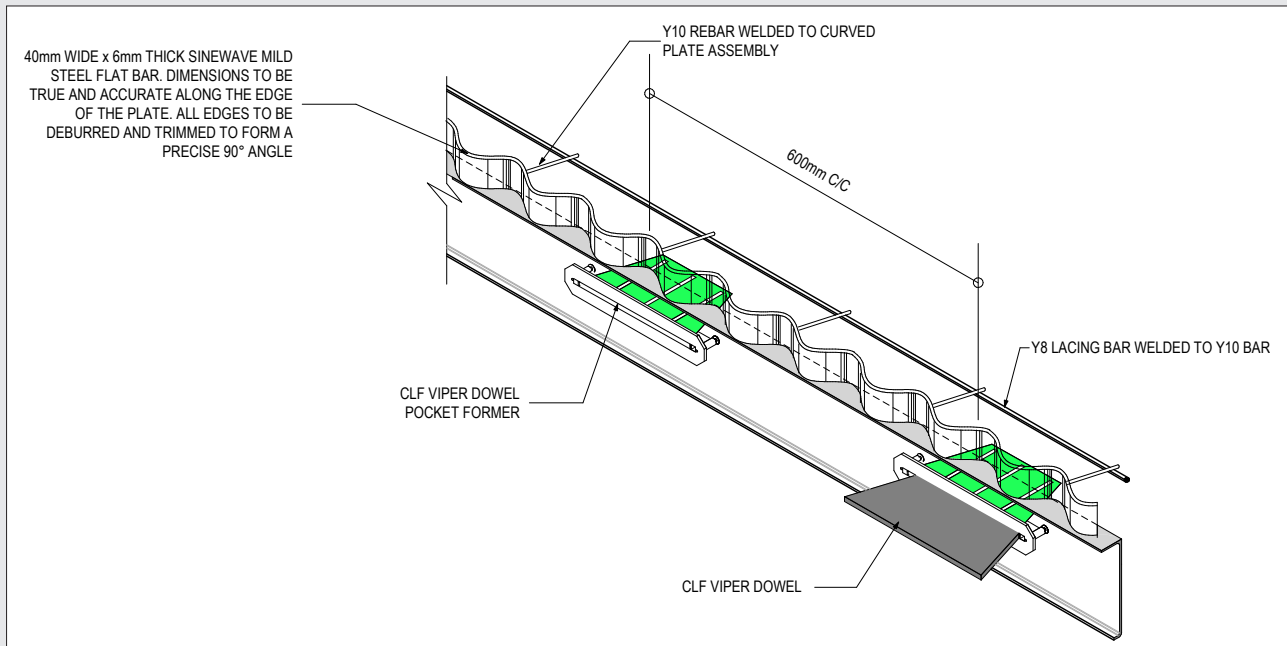
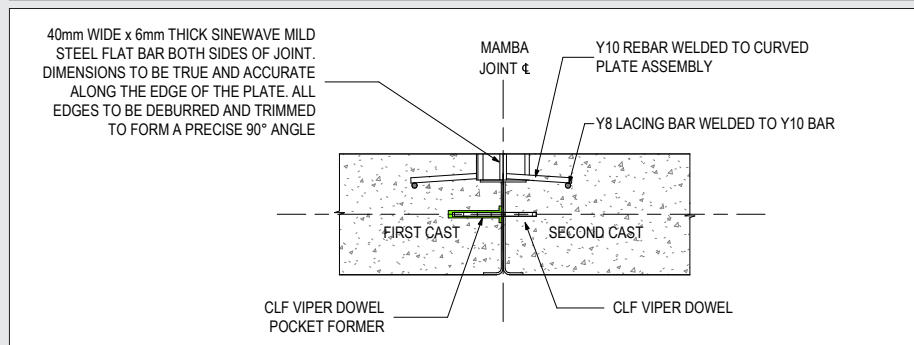
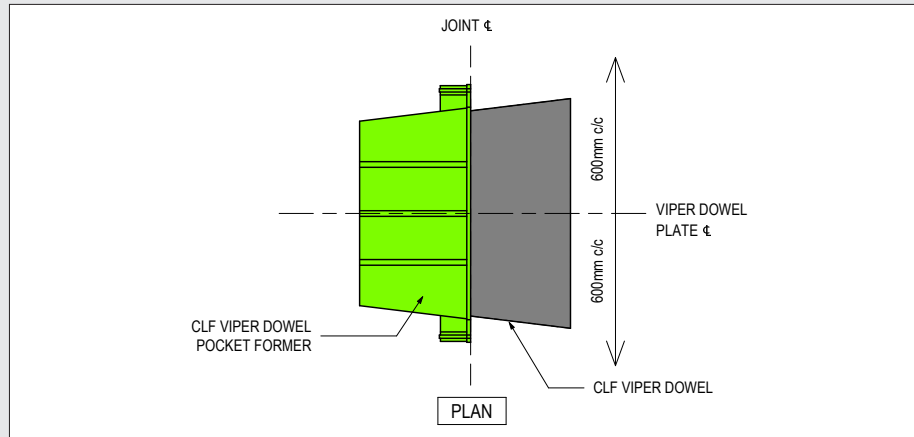
Typical Plan.



Typical Section.

Ultimate loads at failure of dowel or concrete for a 200 mm thick fibre reinforced slab.

- BURSTING = 109 kN/m
- BENDING = 109 kN/m
- PULL-OFF LOAD = 5798 kg



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