

Ground Conditions:

The long term performance of a channel installation to sustain vertical and lateral loads depends upon A) ground conditions B) stability of the adjacent pavement and C) a durable concrete bed and surround. The recommended installation detail may require the minimum dimensions to be revised to achieve site specific EN1433 load class requirements

Isolation Joints:

The channel must be isolated from the surrounding environment. An isolation joint must be positioned up to 1500mm from the channel wall. Any dowel bars must be located no nearer than 150mm from the channel wall. Other isolation joints in surrounding slab must be continued through the channel. Additional crack control may be required to comply with specifier requirements.

Concrete Surround and Reinforcement:

Ensure that the channels do not float while pouring the concrete. The reinforcement required in the concrete surround varies with the installation group (load class) and channel size. The combined depth of the asphalt pavement must not exceed the required dimensions. Ensure the edge rail anchors if present are well embedded into the concrete.

Temporary Installation:

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Watertight Installation to EN 1433:2002:


Where ACO Qmax channels are to be installed with watertight joints, the seal between channel units must be checked for cleanliness and then smeared with lubricant jelly such as proprietary pipe joining lubricant. Guidance on the preparation should be sought from the lubricant manufacturer. ACO Qmax channels are tested to confirm compliance with the watertightness requirements of EN 1433 when filled with water to the top of the channel bore (below the inlet arches). Installation must be in accordance with ACO's recommendations and the recommendations of the lubricant manufacturer. It is envisaged that the channel joints would not be subject to movement, but any movement of the joint might compromise the watertightness.

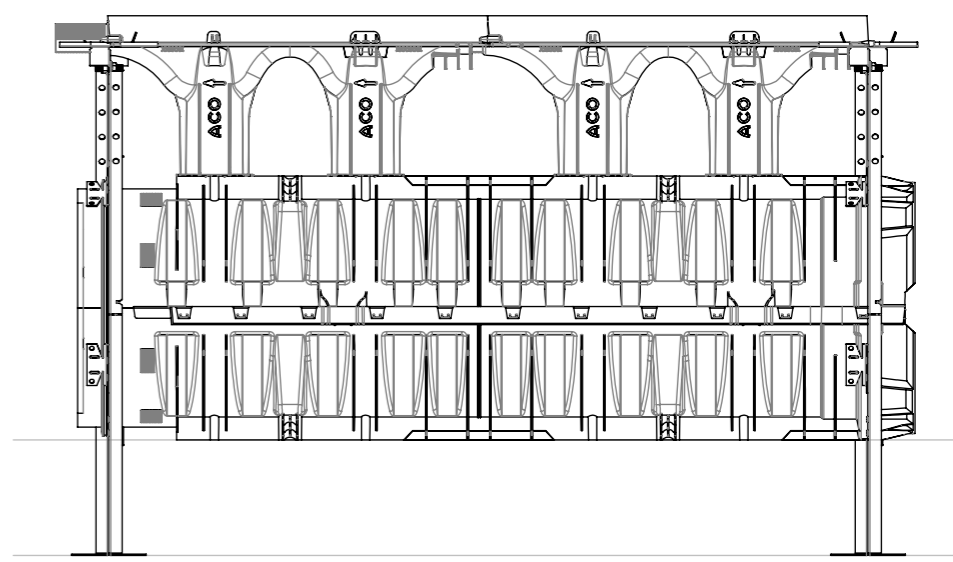
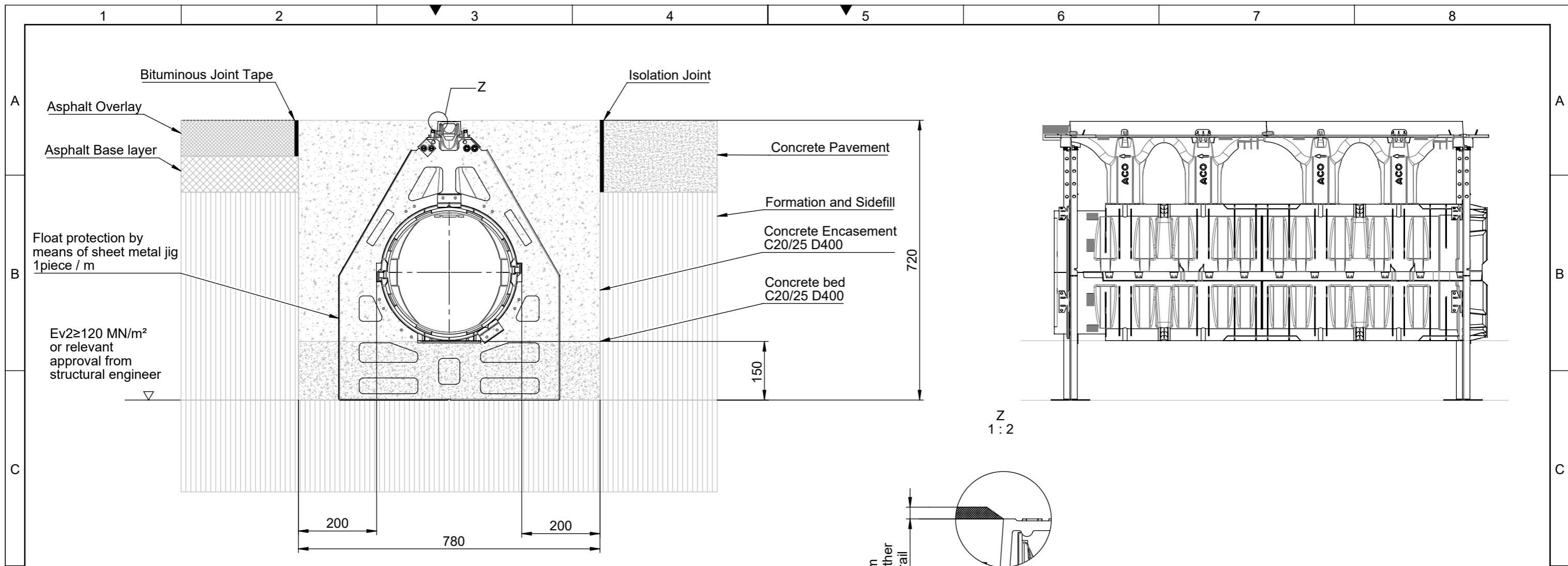
Channel Protection:

Avoid contact between compaction equipment and top of ACO channel edge rail. The installer must ensure that the finished surface level lies above the top of the edge rail (by at least 3-6mm). Covering or protecting the rails, before concreting the haunch or laying blocks, removes the time and cost associated with cleaning the channel and grating of cement material and embedded stones. During site work ensure that the plastic protective strip (supplied with product) is not damaged or displaced, in order to prevent debris entering the channel during construction. Ensure the edge rail anchors are well embedded into the concrete.

Best Practice and Workmanship:

ACO can give guidance with respect to the most suitable methods of installation for each of the products in the ACO Qmax range.

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| modification: | | | |
| technical reference: Wandkowski, Marco | general tolerance: | surface: | weight: 49.83 kg |
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| | created by: | reviewed by: | projection: ISO-E scale: 1:10 |
| title: Qmax Neo 300 Qmax Neo 300-Installation drawing D400 without jig Qmax Neo 300_Installationszeichnung D400 ohne jig | | | |
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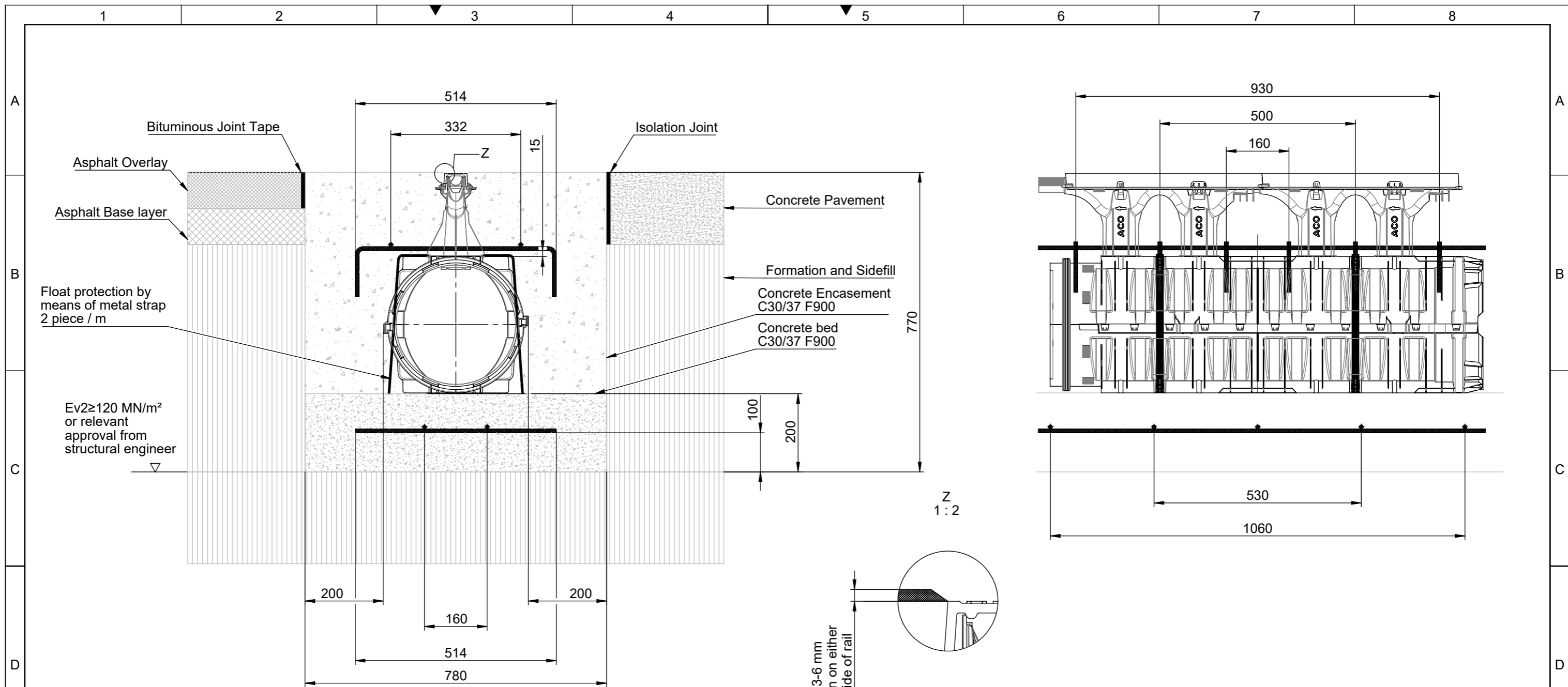
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| title: Qmax Neo 300 Qmax Neo 300-Installation drawing D400 with jig Qmax Neo 300_Installationszeichnung D400 mit jig | | | |
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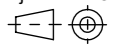
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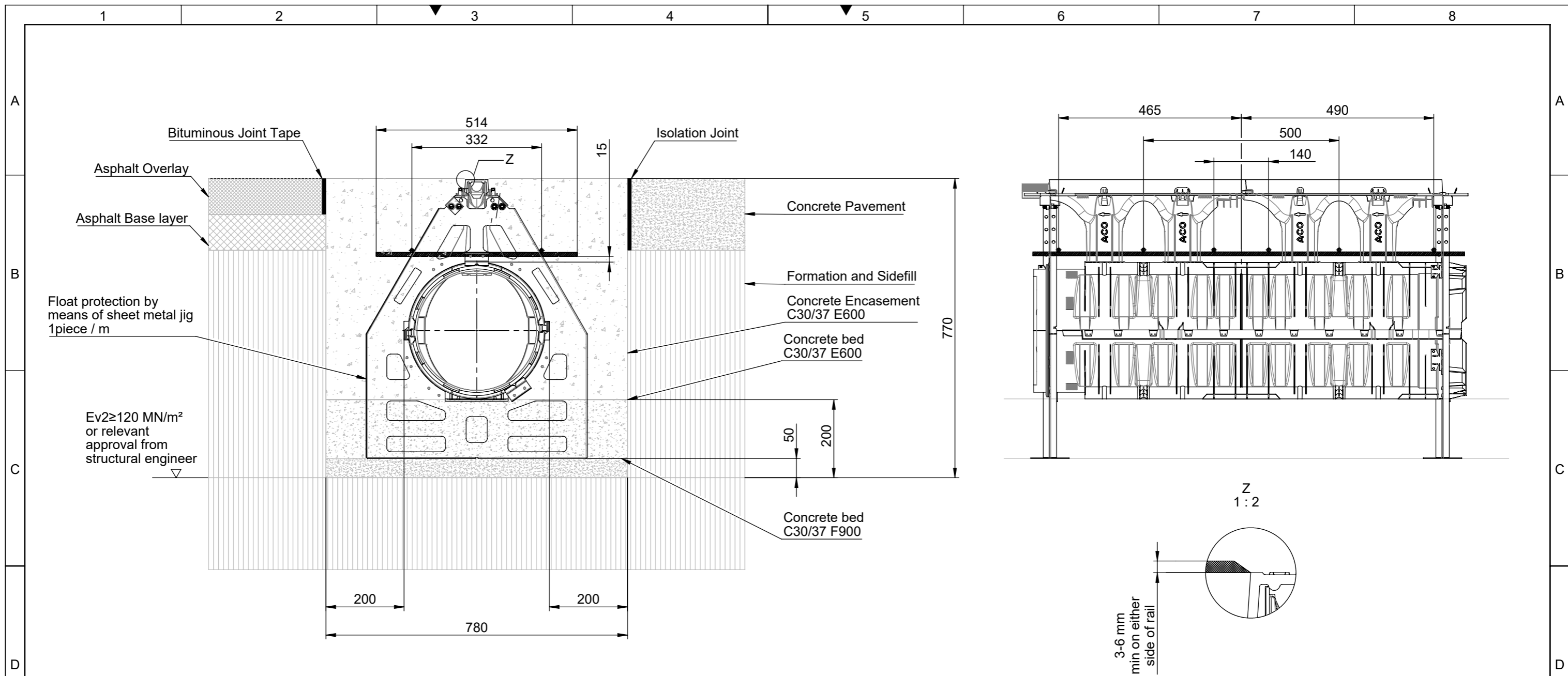
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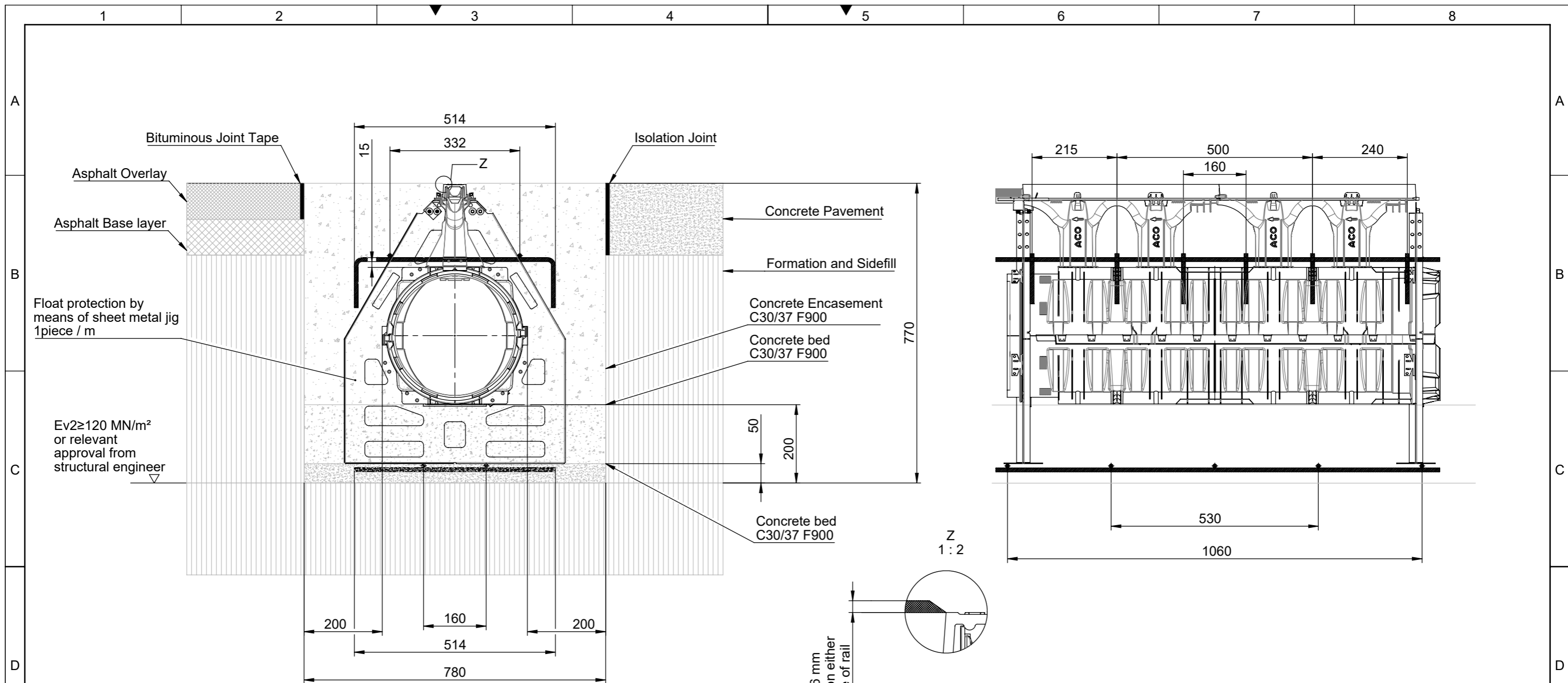
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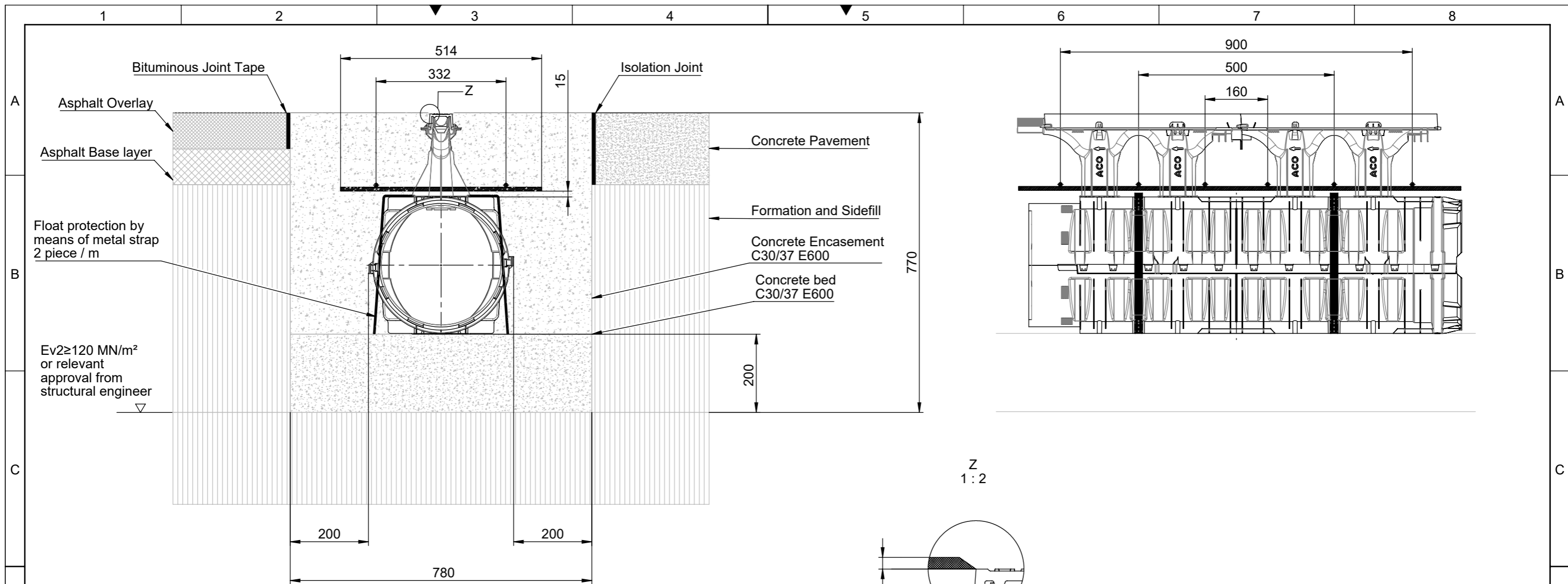
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| title: Qmax Neo 300 Qmax Neo 300-Installation drawing F900 Qmax Neo 300-Installationszeichnung F900 | | | |
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