

Title (en)  
METHOD FOR RENOVATING, REPAIRING, REINFORCING, PROTECTING OR NEWLY CREATING CORRUGATED METAL-SHEET TUNNELS,  
AND CORRUGATED METAL-SHEET TUNNELS OF THIS TYPE

Title (de)  
VERFAHREN ZUM SANIEREN, REPARIEREN, VERSTÄRKEN, SCHÜTZEN ODER NEU ERSTELLEN VON WELLBLECHTUNNELS SOWIE  
DERARTIGE WELLBLECHTUNNELS

Title (fr)  
PROCÉDÉ DE RESTAURATION, DE RÉPARATION, DE RENFORCEMENT, DE PROTECTION OU DE CRÉATION DE TUNNELS EN TÔLE  
ONDULÉE ET TUNNELS EN TÔLE ONDULÉE

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Application  
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Abstract (en)  
[origin: WO2019197265A1] The invention relates to a method used to renovate or newly create corrugated metal-sheet tunnels. First, the inner surfaces or outer surfaces of the corrugated metal sheets (6) are sand-blasted in order to clean and roughen them. Then anchoring elements (13) are welded onto the roughened side of the corrugated metal sheets (6). Then a layer (15) of gunned concrete is applied to said roughened side of the corrugated metal sheets (6) in order to obtain a smooth to coarsely smooth coating over the corrugation peaks and corrugation valleys of the corrugated metal sheet. Then a reinforcing mesh (16) is laid onto said layer (15) and the reinforcing mesh (16) is covered with a second layer (17) of gunned concrete or wet spray mortar. The cover layer can be smoothed if necessary. A corrugated metal-sheet tunnel renovated or outfitted in such a way thus consists of corrugated metal sheets which, with the corrugation peaks and corrugation valleys thereof extending parallel to the peripheral direction of the tunnel profile, cover the tunnel walls and tunnel ceilings. The corrugated metal sheets (6) on the tunnel inner surface and/or tunnel outer surface are reinforced with an applied reinforced concrete layer (15, 17).

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