

Metal Structure Packing-Mellapak Type
Introduction

Mellapak is the most widely used structured packing worldwide, known for its excellent performance in columns with diameters up to 17000 mm. Made from sheet metal with thicknesses starting at 0.1 mm, its unique surface structure ensures high separation efficiency across a wide range of liquid loads. The alternating arrangement of corrugated sheets creates intersecting channels that optimize gas flow mixing. Mellapak has been trusted by the industry for over 30 years.

Features

- Low pressure drop (0.3-1.0 mbar per theoretical stage)
- Pressure drop at 70-80% flooding about 2 mbar/m
- Minimum liquid load approx. $0.2 \text{ m}^3/(\text{m}^2\text{h})$
- Maximum liquid load up to more than $200 \text{ m}^3/(\text{m}^2\text{h})$
- Increasing capacity of existing tray and packed
- Ideal for a wide range of applications

Applications

- Vacuum and atmospheric columns
- Quench columns
- Ethylbenzene units
- Tall oil
- Air separation
- Absorption

ESP Mellapak Specification

Size (Nominal)	Surface Area (m^2/m^3)	Void Fraction (%)
64.X/64.Y	64	99
125.X/125.Y	125	98
170.X/170.Y	170	99
2.X/2.Y	223	99
250.X/250.Y	250	97
350.X/350.Y	350	96.5
500.X/500.Y	500	92.5
750.Y	750	97

