

Mandziak

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **19**
- SRM **4.5**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **20.7 liter(s)**
- Total mash volume **26.6 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **20.7 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **12.7 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Wheat Malt	2.5 kg (42.4%)	85 %	5
Grain	Weyermann - Pilsner Malt	1.8 kg (30.5%)	81 %	5
Grain	Weyermann - Pale Ale Malt	1 kg (16.9%)	85 %	7
Grain	Platki owsiane	0.4 kg (6.8%)	60 %	3
Grain	Weyermann - Carapils	0.2 kg (3.4%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	20 g	60 min	6 %
Aroma (end of boil)	Cascade	15 g	15 min	6 %
Aroma (end of boil)	Cascade	15 g	7 min	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	---

Extras

Type	Name	Amount	Use for	Time
Other	pulpa mango alphonso	5.1 g	Secondary	14 day(s)