

APA z Mango

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **50**
- SRM **5.3**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

Steps

- Temp **67 C**, Time **60 min**

Mash step by step

- Heat up **12 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **11 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3.5 kg (87.5%)	79 %	6
Grain	Monachijski	0.5 kg (12.5%)	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	30 min	13.5 %
Boil	Nelson Sauvín	30 g	10 min	11 %
Boil	Cascade	20 g	5 min	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	10 g	Safale