

Apa

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **33**
- SRM **2.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.6 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **25 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	4.5 kg (90%)	80.5 %	2
Grain	Płatki owsiane	0.5 kg (10%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zula	25 g	40 min	8.3 %
Boil	Marynarka	50 g	10 min	8 %