

Sunny

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **50**
- SRM **3.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.5 kg (77.8%)	80 %	4
Grain	Pszoniczny	1 kg (22.2%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Bravo	20 g	45 min	13.7 %
Boil	southern promise	25 g	15 min	11.1 %
Aroma (end of boil)	Ahtanum	20 g	5 min	5 %
Dry Hop	Sterling	50 g	5 day(s)	4.5 %
Dry Hop	southern promise	20 g	5 day(s)	11.1 %
Dry Hop	Bravo	20 g	5 day(s)	15.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
liberty bell	Ale	Dry	11.5 g	---