

# Zaćmienie - RIS z tonką/kawą/płatkami dębowymi/wanilią

- Gravity **45.8 BLG**
- ABV **27.9 %**
- IBU **33**
- SRM **94.7**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **63.6 liter(s)**
- Total mash volume **84.8 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Monachijski	5 kg (23.6%)	80 %	16
Grain	Pilzneński	5 kg (23.6%)	81 %	4
Grain	Grodziski pszeniczny wędzony dębem	5 kg (23.6%)	80 %	3
Grain	Strzegom Karmel 600	1 kg (4.7%)	68 %	601
Grain	Strzegom Karmel 300	2 kg (9.4%)	70 %	299
Grain	Czekoladowy	1 kg (4.7%)	60 %	788
Grain	Płatki owsiane	1.2 kg (5.7%)	85 %	3
Grain	Black (Patent) Malt	1 kg (4.7%)	55 %	985

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	10 %
Boil	Simcoe	50 g	60 min	13.2 %
Boil	Styrian Golding	20 g	60 min	3.6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	16 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Other	Płatki dębowe whisky - macerowane w whisky	100 g	Secondary	90 day(s)

Other	Wanilia burbońska	2 g	Secondary	90 day(s)
Spice	tonka	2 g	Secondary	90 day(s)