

Warka strong

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **31**
- SRM **13.7**
- Style **Strong Scotch Ale**

Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **2 %**
- Size with trub loss **13.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.5 liter(s)**
- Total mash volume **14.8 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **15 min**

Mash step by step

- Heat up **11.5 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **30 min** at **72C**
- Keep mash **15 min** at **76C**
- Sparge using **6.6 liter(s)** of **76C** water or to achieve **14.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 2 kg (60.6%) | 79 % | 6 |
| Grain | Jęczmień niesłodowany | 0.5 kg (15.2%) | 75 % | 2 |
| Grain | Strzegom Karmel 300 | 0.3 kg (9.1%) | 70 % | 299 |
| Grain | Pszeniczny | 0.5 kg (15.2%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil | Progress | 15 g | 60 min | 6.9 % |
| Boil | Progress | 15 g | 30 min | 6.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Bayanus 995 | Wine | Dry | 11 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

| | | | | |
|--------|----------------|-----|------|--------|
| Fining | Mech Irlandzki | 5 g | Boil | 15 min |
|--------|----------------|-----|------|--------|